

GOLF COURSE NEWS

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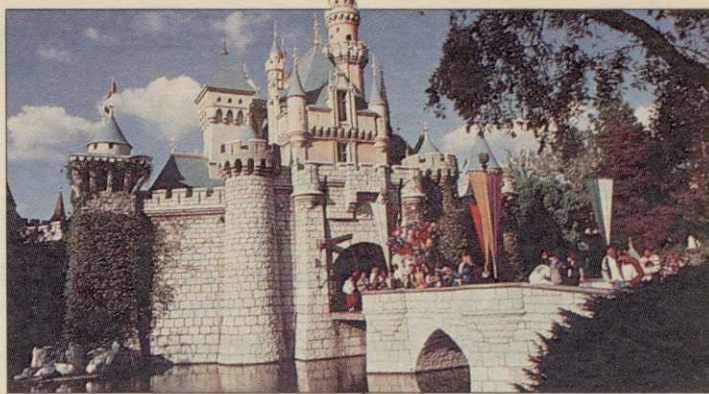
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GCSAA faces opposition on proposed bylaw changes

By PETER BLAIS

This year's GCSAA annual meeting promises to be anything but a ho-hum affair. The proposed bylaw changes will see to that.

Recommendations to give the board of directors authority to set dues, get rid of delegate voting, change from a two-thirds to simple majority rule, and restructure membership classes have drawn fire and support from around the country.

The Organizational Study Committee recommended and the board of directors unanimously endorsed the changes, according to GCSAA President Bill Roberts.

Still, some board candidates, former association officers and members

have expressed reservations about the changes.

"Many people feel like these are being rammed down their throats," said board of director candidate George Renault of Burning Tree Club in Bethesda, Md. "They could all be voted down. It just stresses the need for better communication with the membership."

Board candidate Dave Fearis of Blue Hills Country Club in Kansas City, Mo., explained that the board has simply endorsed bringing the proposed changes before the membership for a vote rather than endorsing the actual changes themselves.

"Whether they pass or fail, they have the members interested and ac-

Continued on page 22



Supers descend on Anaheim

By PETER BLAIS

ANAHEIM, Calif. — Guess what, folks. This year's winner of the GCSAA's highest honor, the Old Tom Morris Award, will be there to receive her plaque.

Business kept last year's recipient, golfer Tom Watson, away from the New Orleans ceremony. Knowing he would not be able to personally receive the award, Watson requested the association give it to someone else.

But the group decided Watson was their man and honored him anyway. Although he taped an acceptance speech shown during the annual banquet, the five-time British Open champ's absence was definitely noticeable.

Continued on page 24

Revised green construction specs forthcoming

By MARK LESLIE

Major changes in the U.S. Golf Association greens construction specifications, to be unveiled this month, will save developers money and time, according to USGA Green Section National Director Jim Snow.

New guidelines will be released in January following a "thorough, scientific" 18-month review of the

After an 18-month review, USGA to release new guidelines this month

USGA's controversial construction recommendations by agronomists, scientists, architects, industry personnel and soil laboratory personnel.

Snow believes golf course builders, architects and developers will be happy with the results,

which will be available in a rough version in January and in a booklet come late winter or early spring.

Central to the changes is the intermediate pea-gravel layer, known as the choker layer, which Snow termed "controversial, not in terms of agronomics, but in terms

of money."

"I believe most of the time the choker layer is left out of the construction," Snow said. "We have found good specs for determining when you need it or not" based on particle size distribution of the root-zone mix."

The recommendations place more stress on laboratory tests, especially in

Continued on page 52

Low Country courses take proactive environmental tack

By HAL PHILLIPS

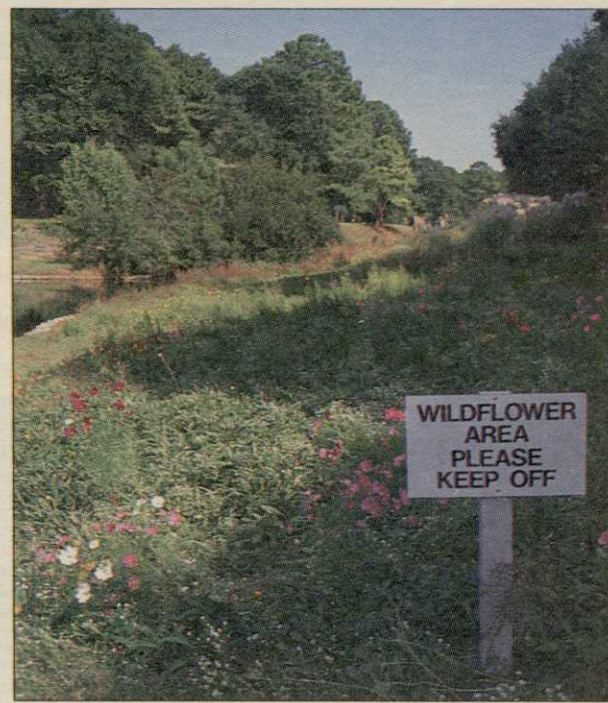
HILTON HEAD, S.C. — The words "coastal council" are enough to scare some golf course owners and developers half to death. However, a proactive approach taken in the Low Country of South Carolina has shown that regulators

and course owners can work together, to the benefit of all concerned.

Mike Tinkey is chief operating officer of Royal Golf & Tennis, Ltd. which manages 81 holes in and around Hilton Head. Since 1989, Tinkey has overseen a slew of environmental improvements: lagoon naturalization, bird sanctuaries, above-ground fuel storage, wildflower plantings, and conversion to irrigation using 100 percent effluent. All this was done with the active blessing of regulatory agencies.

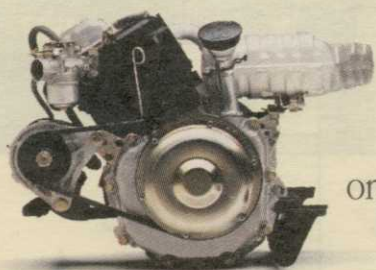
"We went to the agencies and said, 'This is what we're

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Wildflower beds on the 4th hole at the Barony Course are among 4.5 acres planted on the Port Royal/Shipyard courses on Hilton Head.

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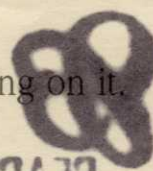
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NEWS IN BRIEF

COPLEY TOWNSHIP, Ohio—Developer Doran D'Avello has dropped plans to construct a golf course near Barberton Reservoir. His decision not to pursue purchase of city-owned land followed a special committee's recommendation against construction. Several city officials feared pesticides and fertilizers could run off into the reservoir.

...

PONTIAC, Mich.—The Pontiac City Council has looked favorably on a project that includes a redesigned municipal golf course and up to 414 new homes circling Crystal Lake. The course would be designed by Jack Nicklaus Jr. The council approved Weiss Development Co. Inc. as the preferred developer. The Weiss proposal calls for the city to pay \$7.15 million for golf course construction and improvements.

...

WHITEFISH, Mont.—In a surprise about-face, the Whitefish City Council voted 4-2 against a required master plan for a mammoth subdivision and golf course. The Mountain Valley Club vote was presumed to be routine ratification of an earlier decision at a public hearing in December.

...

ROME, Ga.—Financing for municipal golf course construction—in the form of \$6 million in revenue bonds—has received unanimous approval of the Rome City Commission. The golf course, which will be built on property the city will buy from Berry College, is expected to be open late in 1994. The course is expected to handle 30,000 rounds the first full year of operation.

...

PORT ARTHUR, Texas—Port Arthur residents by more than 1,500 votes opposed the city's issuing \$8.9 million in certificates of obligation to finance a golf course on Pleasure Island. Residents on May 2 voted down a similar proposal by 32 votes.

Study urges environmental cooperation

NGF-sponsored report says golf industry needs more networking and a single clearinghouse for shared information

JUPITER, Fla.—The National Golf Foundation has released the results of a special environmental study that was conducted on behalf of the golf industry. It examines the extent to which the game is being affected by environmental concerns and makes recommendations for future industry action.

Conducted by Vinson & Elkins, a Houston-based law firm specializing in environmental law, the study was commissioned by the NGF and funded in part also by the PGA of America, PGA Tour, USGA and LPGA. The report was released at Golf Summit '92 in Orlando, Fla.

Among the study's recommendations are establishment of a special information clearinghouse and a suggestion that the golf industry begin networking with other industries that have similar interests.

Driving these recommendations is a situational analysis that notes that, while things may not be all that bad at the moment, "environmental issues have the potential to be a serious threat to the golf industry."

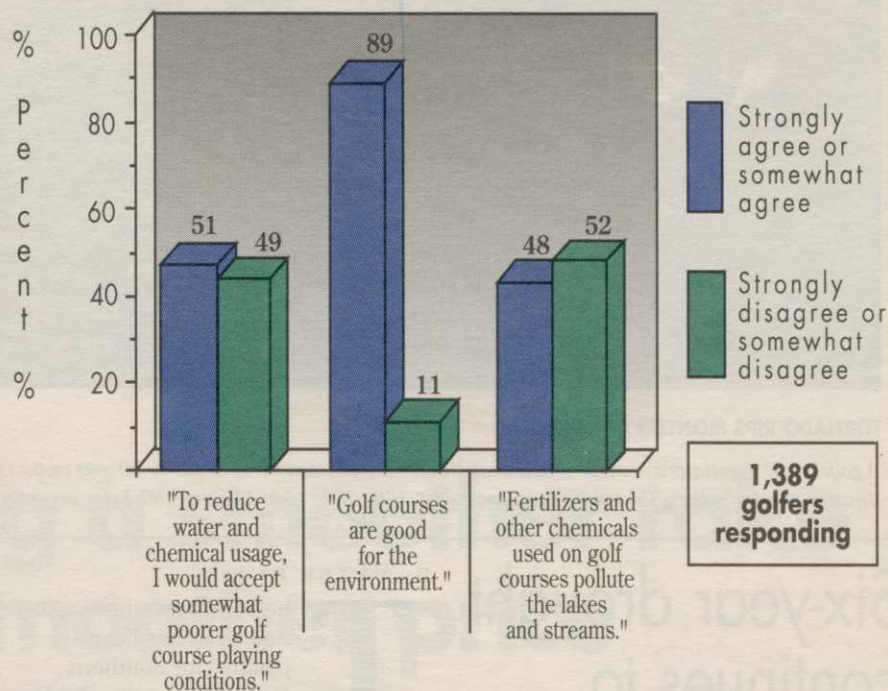
The report points out that while golf is not unaffected by today's environmental regulations and lobby, neither is it being unfairly singled out. It says the range of environmental issues facing the golf industry is fairly limited compared to other industries.

For existing facilities, the key issues are the availability of water and pesticide use.

"Costs associated with environmental regulation of pesticide use... and acquisition of water supplies are increasing course operating costs," notes the report.

According to the report, certain environmental issues are more common in some

National Golf Foundation Consumer Survey



parts of the United States than in others. It says wetlands are more of an issue in New England than they are in the High Plains. The question of water is raised more often on the West Coast than it is in the Northeast.

The one exception is pesticide use, which is a concern throughout the nation.

The report gives the industry high marks for its response to environmental issues. It does point out, however, that the response has been somewhat "uneven," i.e. those concerns impacting existing facilities have received more attention than those impacting the development of new ones.

The study stresses the need to establish and foster relationships within national groups, like the National Home Builders Association and Urban Land Institute, that

share similar concerns about environmental issues.

The study calls for development of a national media plan, a coordinated state and local strategy, and a program to empower and enlist the support of the nation's golfers.

"The study provides those less-involved with environmental issues with a greater awareness of the industry's accomplishments and opportunities that lie ahead," said Carol Dinkins, a Vinson & Elkins partner in charge of study. "For those most involved with the environment, our study effort confirmed that they are on the right path. The future of golf and the environment can only be enhanced as the industry achieves greater coordination and communication."

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TORNADO RIPS MONTEREY PENINSULA

A golfer (left) negotiates a newly formed sidehill lie after a freak tornado uprooted 30-50 trees on the Old Del Monte golf course in Monterey, Calif., Sunday evening, Dec. 6. One of the larger uprooted trees (right) dwarfs a group of golfers. The twister damaged the 1st, 13th, 15th, 16th, 17th and 18th holes, according to course personnel. No estimates of the cost to repair the course, owned by Pebble Beach Co., were available.

Six-year drought continues to plague Western United States golf courses

By PETER BLAIS

The early-season precipitation news has been positive for Southern California — site of this year's GCSAA international show — although the six-year drought is far from over.

The Southern California Metropolitan Water District reported precipitation was slightly above the normal 12 to 14 inches for the region for the year ending Sept. 30.

Additionally, forecasters predicted

December weather patterns would bring heavy rainfalls to the coast, an encouraging start to the area's prime four-month wet season.

But two-thirds of Southern California's water is imported, according to water district spokesman Bob Gomperz. And there the news is mixed.

"We've been told we'll receive as much as the aqueducts can handle from the Colorado River basin. But Northern California [primarily dependent on Sierra Nevada Mountains snowpack] is giving us just 10 percent of what we requested,"

Gomperz said.

The Northern California allotment figure is preliminary. It could go higher when final figures are released in May, particularly if heavy early-December snows, which helped snowpack levels reach 50 percent of normal, continue through the winter, Gomperz said.

Does that have the golf industry ready to burst into a chorus of "Ding dong the drought is dead?"

No way, Dorothy.

"It's rained heavily in spots. But the

Continued on page 35

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Horse farm could become Auburn muni golf course

AUBURN, Calif. — Quarter horses quartered in the North Auburn area some day may have to step aside for golfers playing for quarters.

The 240-acre Meadow Creek Quarterhorse Ranch has been added to the list of potential sites for a municipal golf course.

The landowners want to turn the land into a golf and housing project. The golf course task force committee is negotiating with Ron-Mar co-owner Martin Harmon, who owns a 160-acre parcel at the northeast corner of the intersection of Bell and New Airport roads.

County-hired consultants estimate course construction cost at \$5 million to \$10.7 million.

Weather delays Rock Hollow

PERU, Ind. — "Rain, Rain, Go Away!"

Despite repeated entreaties last July, it didn't, so Rock Hollow Golf Club's completion schedule is now the spring of 1994 rather than the summer of 1993.

About half the 18 holes are constructed and ready for the irrigation system, and dirt has been pushed around five more holes. The remaining holes have been cleared, but no work has been done on them.

Work will continue through the winter, and all holes completed by spring. Clubhouse construction will be completed next fall.

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Ordinance makes range owners legally liable

WHEAT, Colo. — "Out of bounds" has taken on new meaning here.

For golfers, it long meant just a penalty stroke. For patrons of the Lakemont Family Golf Centre, hitting a ball over the fence may lead to a stiff fine.

The Wheat City Council has adopted a measure which states that "No driving range owner or operator will allow or permit golf balls to leave the boundaries of the golf driving range and to thereafter come upon any other property, public or private."

The law is aimed, not at the errant swinger, but at the range owner. A strict liability ordinance, it means that all a victim needs to show is that a golf

ball landed on his or her property. A ball in hand is said to be sufficient for favorable court ruling.

The new law quickly cooled prospective range purchaser Tony Solano. Owner Robert Vermillion's plea that he planned to redesign the range to keep stray balls in bounds was rebuffed.

For Mollie Williams, the law may be a mixed blessing.

She and husband Robert own a business adjacent to Lakemont. They've harvested 4,000 golf balls since Lakemont opened. Some may be collectors' items.

Developers ask city to amend long range plan

REDMOND, Ore. — Two would-be developers have asked the city to consider an amendment to its Dry Canyon plan that would allow development of golf courses in the canyon's preservation area as a conditional use.

The Redmond Urban Area Planning Commission has asked Community Development Director Bob Quitmeier to draw up proposed restrictions that could be placed on such development.

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CIRCLE #105/BOOTH #1504

Another golf community for Lincoln City, Ore.

LINCOLN CITY, Ore. — Timbershores Country Club and Golf Course is the most recent resort-type development proposed for north Lincoln City.

Surrounding the 18-hole championship golf course, designed by John Fought of Robert E. Cupp Designs Inc. of Portland, will be 1,104 homesites.

Other features on the 521-acre complex are clubhouse, tennis courts, swimming pool, restaurant and retail shops.

The more luxurious homes will be next to the golf course. Smaller manufactured homes will

also be available.

Completion of the \$250 million project is expected to take 10 years.

Developers hope to have permits in hand and be ready to start infrastructure construction in 1994.

Among the partners are Pat Lockhart, Marjorie M. Boyd and Karl Dang.

Lockhart is also partners with Mark Hemstreet, the owner of Shilo Inns in the 82-acre, \$100 million Lincoln Shore Star Resort, which is now under construction in north Lincoln City.

Course planned near airport

RAMONA, Calif. — Escondido golf enthusiast and developer Dick Jones plans a 70-acre golf course and driving range near the Ramona Airport.

His \$2.5 million project, named the Ramona Executive Golf Center, would offer golf at \$12 a round, \$8 for senior citizens and for juniors.

While not the \$2 or \$3 green fee in vogue when he started caddying 65 years ago, it is in sharp contrast to current green fees at area courses San Vicente Golf Club (\$39) and Mt. Woodson

Country Club (\$38 to \$50).

The project eventually would include 27 holes and a 90-tee driving range. It would retain much of the natural landscape, and its own wells would provide water for the course, he said.

Planned night play could bring a problem, but Jones stressed that the nearest homes are more than a quarter-mile away and that course lighting would be non-intrusive.

Jones is a course marshal at Escondido CC. He could switch golf course caps quickly.

Neighbors hope to close range

EDGEWATER, N. J. — From their lofty towers on Manhattan's Upper West Side, Riverside Drive residents hope to shoot "lights out" on the Edgewater Driving Range three-quarters of a mile distant.

The two-tiered range, which cost \$2 million to build and opened last June, does much of its business after dark.

To still complaints about stadium-strength floodlights, aluminum filters have been attached to the four lights that point directly east, and lights have been angled downward to blunt reflection from river waters. "More subdued lighting is required," critics contend.

Edgewater building inspector Frank Pollotta replies, "The driving range has met all borough requirements, and is a good neighbor. We have our beautiful Palisades for them to look at, while we get to look at their sewage treatment plant."

That strong statement brings only a glare from New Yorkers who take a dim view of night-time golf and are in no mood for illuminating discussion.

Stevinson layout to start in 1993

STEVINSON, Calif. — Stevinson, an area known for far-flung farming and wide-ranging racehorses, may soon ring with the cry of "Fore!"

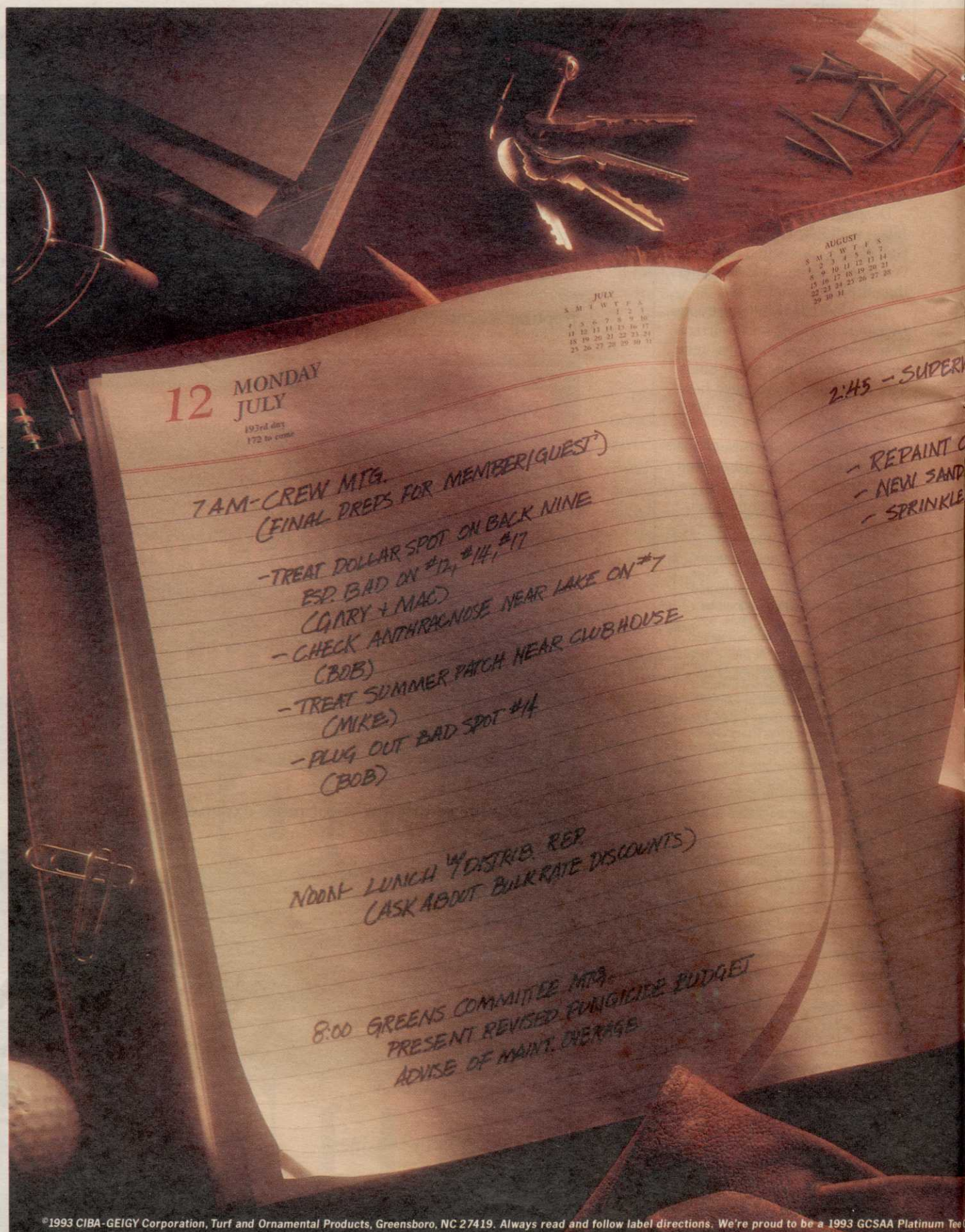
The Merced County Planning Commission members has approved a 36-hole golf course proposed by the James J. Stevinson Corporation and property owner George Kelley.

The courses would feature a clubhouse, restaurant, pro shop and driving range.

The course would be built on 900 acres of unirrigated pasture.

Construction of the first 18 holes and central clubhouse facility is planned for early next year. The new course would be semi-private and open to both membership and public play.

In light of obstacles faced by modern would-be course developers, it might be said that Stevinson's construction pace is proceeding at a full gallop.



Council approves course bond

WESTMINSTER, Colo. — An emergency ordinance authorizing a \$21 million sales tax revenue bond sale — which would include \$10 million for development of a city golf course — has received City Council approval.

Lone council dissenter Bob Hartwig said that, while he had no problem with emergency measure use, the council could have started working with local residents two years ago when the golf course was first

proposed.

Two members of the Committee of Concerned Neighbors — originally formed because residents' views of the mountains would be blocked by new houses proposed in the course development — now question several aspects of the development and want the city to consider redesigning it.

The council has given preliminary approval to the agreement dedicating the land for the course.

Feasibility study gets official nod

LAS CRUCES, N.M. — A feasibility study on whether this city needs a public golf course has received 7-1 City Council approval.

The study will not include how to get water to the course or the effect of using water for the course as opposed to other water needs.

The study will also not take into account an offer from a local developer to donate land behind High Range for the course, nor an offer from a golf course development company to build the course at no cost to the city.

Experiment station plans layout

GRIFFIN, Ga. — Local golfers, at times regarded suspiciously, soon may be ducking "guys in white coats."

The Georgia Experiment Station, an agricultural research center, hopes to build the first course in the nation designed specifically for scientific research.

It would be a 21-hole course built and managed by private developers on 165 acres of Experiment Station land.

The three "extra" holes would be used to conduct experiments on turfgrass varieties, chemical use and water management.

Gerald Arkin, Griffin center director, termed golf course management and design "a booming industry." Keeping the courses healthy and green without using excessive chemicals and water present a variety of problems for agriculture scientists, he said.

Study sets back Minn. track at least 3 months

OWATONNA, Mont. — The timetable for the proposed Hidden Hills Golf Course has been delayed at least three months.

A required environmental assessment worksheet previously overlooked by the county has been unearthed.

The 18-hole golf course, ticketed on land owned by Glen Edin and State Rep. Dean Hartle, can't be approved by the county planning commission until that assessment is complete.

Catherine Brown Furness, an attorney who lives south of the proposed course site, petitioned the Environmental Quality Board (EQB) to require the assessment.

Council accepts land donation for golf course

NORTH PLATTE, Neb. — The North Platte City Council has accepted a deed of land from the Glenn Chase family for a municipal golf course and entered a lease agreement for a driving range.

The city will pay the Chase family \$1 a year for use of land near the golf course for a driving range.

Created was the City of North Platte Leasing Corporation, a non-profit body to finance the project not to exceed \$3.6 million.

The council approved a conditional-use permit for construction of the golf course in an agricultural zoning district.

Voters endorse bond issuance

JANESVILLE, Mont. — Voters approved a non-referendum vote to issue \$600,000 in bonds to build a golf course and residential development, allowing city officials to take the next step toward construction.

A Golf Course Association feasibility study indicates user fees will pay for the bonds for the nine-hole course.

The referendum tally was 574-407.

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Former GolfCorp. exec buys 2 San Diego tracks

Bob Husband and Brentwood Associates Buyout Fund, L.P. have combined to form Cobblestone Golf Group Inc. to acquire, develop and operate golf course properties.

Brentwood Associates recently funded Cobblestone, which then acquired two golf facilities in San Diego County, Calif.

Husband is chief executive officer of Cobblestone. He has 19 years of golf operations and acquisitions experience and is best known as founder and president of GolfCorp. Formed in 1978, GolfCorp. grew to more than 40 public facilities by 1991. ClubCorp International purchased GolfCorp

in 1986 with Husband helping grow the public golf division until leaving earlier this year.

Gary Dee, former director of public golf for the PGA Tour, is vice president of operations. Andrew Crosson, former vice president of development for GolfCorp, will serve in the same capacity at Cobblestone.

Cobblestone's primary strategy is acquiring under-managed facilities in Sunbelt markets and improving their profitability through a combination of cost reduction, group marketing programs and

facility upgrades.

"We are excited about the prospect of building a leader in the highly fragmented golf course management industry. It is an opportune time to purchase golf facilities. We expect to announce additional acquisitions by year's (1992) end," Husband said.

Brentwood Associates is a private investment firm headquartered in Los Angeles. Founded in 1972, it manages approximately \$50 million in capital and specializes in private equity investments, including leveraged acquisitions.

Hillsborough County officials consider course at spray site

CITRUS PARK, Fla. — Hillsborough County property — originally intended for development as a spray field to distribute wastewater from the reclamation plant across the street — instead may be the site of sprayed golf balls.

County officials are exploring construction of a golf course on the 320 acres north of South Mobley Road west of Gunn Highway.

It would benefit the county more than a spray field, said Michael McWeeny, county public utilities department director.

He said a golf course would use the reclaimed water for irrigation, bring in revenue and save the county the estimated \$2 million cost of establishing a spray field.

A \$20,000 golf course feasibility study has been approved.

Course attracts investors to Wash. resort

DAYTON, Wash. — Go-Ski Inc., a proposed \$50 million, year-round resort six miles south of Dayton in the North Touchet River area, may gain strong promotional spinoff by mention of golf course inclusion in a companion venture.

Developer Stan Goodell, Go-Ski Inc. president-treasurer, owns Ski Bluewood, a ski area operation farther up the river. Bluewood plans call for condominiums, golf course and retreat center. Golf course speculation has attracted investor interest.

Goodell has assembled 12 investors to make it possible to purchase 1,844 acres from Virginia Stanfill for \$625,000. Other options swell the total to 2,576 acres.

Youths vandalize Calgary layouts

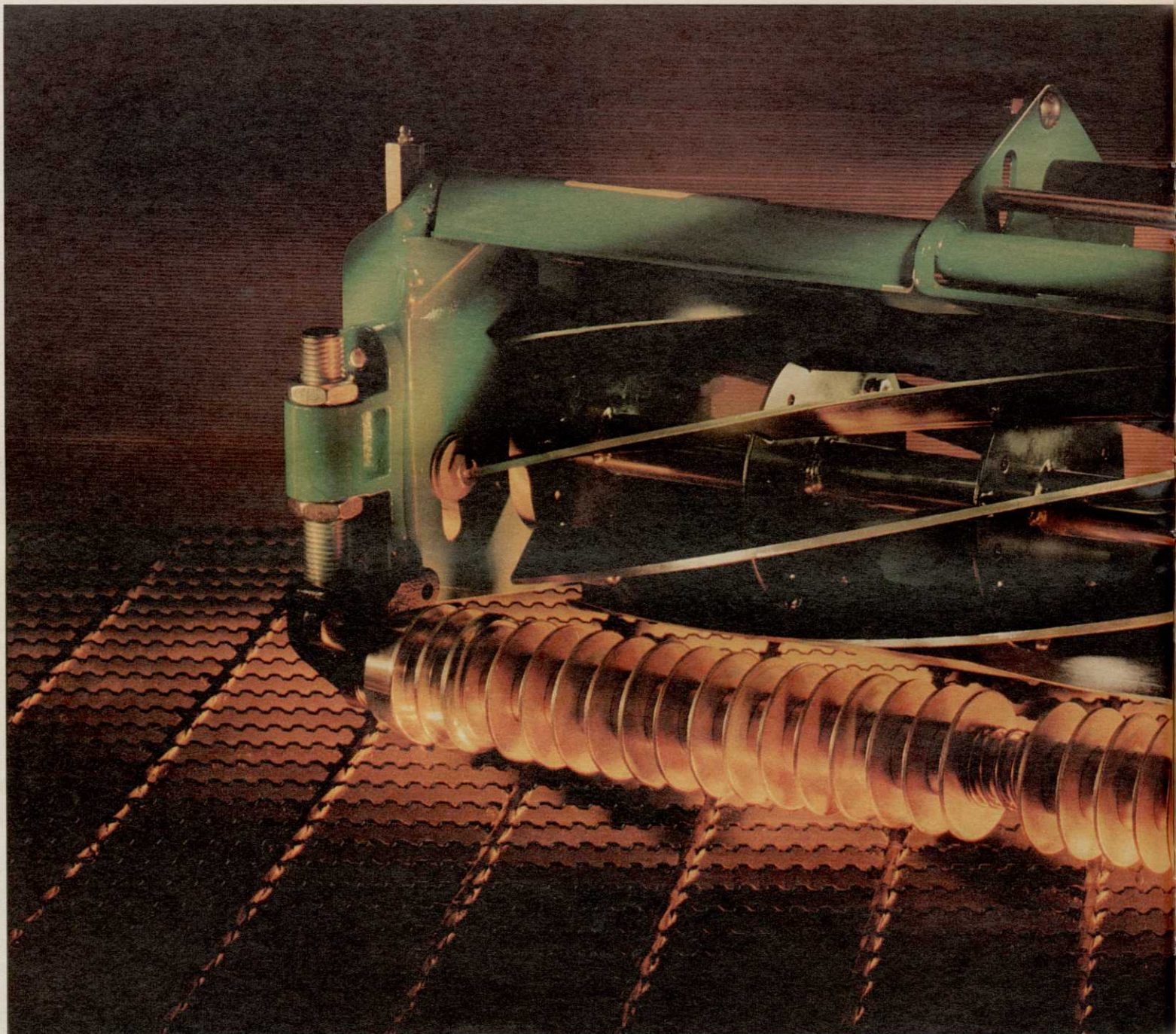
CALGARY, Alberta, Canada — Shovels became instruments of destruction, not construction, at three city golf courses, but investigative spadework caught up with the culprits.

Five juveniles face 19 charges of property damage exceeding \$1,000. Total vandal damage topped \$40,000 at Silver Springs Golf & Country Club, Bears paw Golf and Country Club, and Country Club of the Hamptons, which is under construction.

Silver Springs manager Robert Lauzon said the culprits used shovels to dig large holes — some more than a meter deep — in the fourth green.

Conn. club sets finances aright

ORANGE, Conn. — Grassy Hill Country Club has reached agreement with its main creditor on a reorganization plan. Awaited is finalization of financing to bring the country club out of Chapter 11. The club owes CTB Realty Ventures XIII Inc. \$8.5 million.



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Vancouver officials set aside land for course north of city

VANCOUVER, Wash. — A public golf course has wedged its way into city plans tied to marine terminal, heavy industrial and manufacturing, and business and public park development.

The plan designates 64 acres known as Frenchman's Bar for public park development by Clark County and 195 acres north of the flushing channel for city development as a golf course.

The plan calls for the sale of 118

acres in the Vancouver Lakes Lowlands north of the flushing channel for use as wildlife habitat. The plan preserves 600 acres in the same area for recreational and business park development.

Ironically, wildlife, not man, is feared as a possible predator. Commenting on a golf course so near Canada geese habitat, the Vancouver Wildlife League's Don Fish said, "The birds would tear a golf course apart."

Golf wins out over camping

NIAGARA, N.Y. — Golf course, yes; campgrounds, no.

Residents of Wilson have indicated they favor an 18-hole golf course as part of intended revitalization of Wilson Tuscarora State Park, but they are not keen on campgrounds as part of that \$10.7 million master plan.

The state has tentatively earmarked \$600,000 for the next couple of years of the five-year project.

Floyd (Red) Clark of Wilson

has rounded up 400 signatures on a petition for an 18-hole layout. "We want to put the course across the street where others want the campgrounds," he told the *Niagara Gazette*. "A nine-hole course is too small. And we do not need a \$750,000 maintenance facility now."

Wilson hasn't had a golf course since the private Tuscarora Park Club of the 1920s and '30s. Now parkland, it was closed in 1941 because of World War II.

Judge rules fired employees must have public hearing

EAST BRUNSWICK, N.J. — Four longtime employees at Tamarack Golf Course suspended because of alleged mismanagement (*Golf Course News*, Nov. 1992) have drawn support from Superior Court Judge Jack L. Lintner.

Lintner ruled that the Middlesex County freeholders' vote to suspend the quartet Nov. 3 violated the state Open Public Meetings Act by not allowing them opportunity to have a public hearing on the disciplinary charges.

The employees — parks superintendent David Campion, clubhouse manager Frank Giampietro, assistant clubhouse manager Charles King and golf professional Edmund Heuser — reportedly have unblemished records with the county ranging from 17 to 22 years.

No further action has been taken on the judge's ruling.

Golf plan would stimulate Va. Beach

VIRGINIA BEACH, Va. — An 18-hole self-supporting golf course costing \$5 million would be prominent in a \$93.6 million plan to convert Virginia Beach from a standard seaside resort into one of the nation's premier tourist destinations by 1998.

The cash-strapped City Council may favor the proposal because it requires no property taxes or general tax increase. The projects reportedly would be paid for with a special pool of taxes mostly generated by the city's entertainment and tourist industry.

In addition to the golf course, other proposed projects include a 15,000-seat outdoor theater; expansion of Virginia Marine Science Museum; expansion of Pavilion convention center, and other oceanfront improvements.

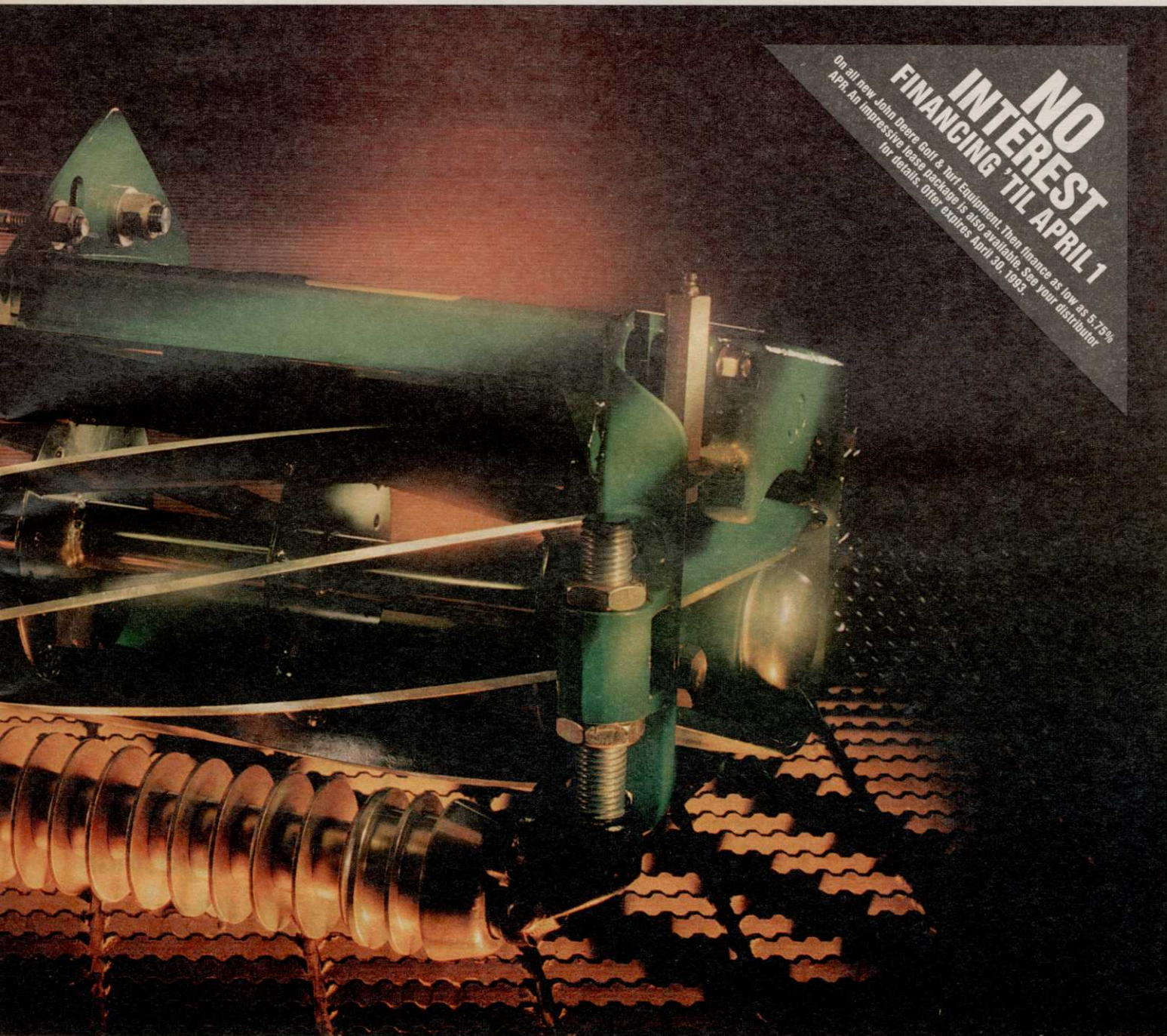
Council can't find project developer

LODI, Calif. — The Lodi City Council earlier this year voted to hire someone to build a nine-hole golf course and driving range on city property on Lower Sacramento Road. There have been no takers.

Parks and recreation officials dispatched detailed project explanation to six developers from as far away as Utah. There were no written replies.

A few said they would be interested in talking directly with council members about building the course.

Councilor Randy Snider, who has opposed using the property as a golf course, favors sports complex development.



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Support growing for Liberty Park plan

JERSEY CITY, N.J. — Linking construction of a golf course at Liberty State Park with the landscaping of 195 acres of open space there has been endorsed by the Jersey City-based Peoples Park Coalition.

The Coalition said the proposal, which includes ballfields, bike paths and a lawn for picnicking and viewing harbor events, was workable.

The plan was first proposed back in September as a way to open an area off limit to the public since the park first opened back in 1978.

The concept calls for a 150-acre public golf

course to pay for surrounding landscaping.

Scott Wether, Department of Environmental Protection and Energy commissioner, last year rejected a golf course plan that provided no linkage.

A 14-member task force has been working on the project since August. New York planner Geoff Roesch devised the latest plan in cooperation with the task force.

The state budget crisis had some considering closing the entire park. That was avoided, but forced officials to look for other sources of revenue to help keep the park open.

Environmental review officials clear the way for golf community

CAMAS, Wash. — Clark County's environmental review officials have cleared a proposal to build both a 266-lot subdivision and 18-hole golf course near Camas.

Developer Vanport Manufacturing Inc. of Boring, Ore., plans to use chemical pesticides on the golf course only as a last resort. Vanport's proposal also contains a spill control and counter plan for handling and storage of golf

course chemicals.

Constructed wetlands, to filter storm water before discharge into Dwyer Creek, would be combined with the golf course and could be used as a water hazard.

Storm water treatment ponds would not be located within natural wetlands.

The golf course would be constructed in two nine-hole phases, and include a clubhouse or recreation center.

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normal maintenance / aeration procedures over the past 4 years to improve the root zone but in 1991 we started applying Surf-Side at rates sufficient to eliminate watering problems. We start with a shock treatment in May of 12-oz/M on greens and if that isn't sufficient we go to 16 or 24-oz/M. This is applied at 6 gals Surf-Side in 160 gals water and we do water-in at these higher rates. **On high sand greens that repel water it's best to spike about an inch before treatment. It increases effectiveness like you wouldn't believe.** To maintain collars we use 3-lbs/M of Granular Surf-Side and apply in two passes... syringing is one thing on collars; keeping the grass alive and looking well is another. We drench the grass faces of traps with 1-gal Surf-Side in 100 gals of water as well as localized dry spots on fairways. We apply with a gun, and don't water-in the treatment. We've reduced syringing 30 to 40% and only need 1 to 2 men under the worst of hot, dry, summer conditions. We do find a residual using Surf-Side. After establishing control of our greens with 130-oz/M in 1991 we are now down to 64-oz/M in 1992. It is best to cure your watering problems up front with the Surf-Side and then adjust rates accordingly. We apply 2-gals Surf-Side in 160 gals water to 80,000 sq.ft. with all our contact and systemic sprays. We've had no disease problems in the past two years. The same Surf-Side mix is applied to fairways every 3 weeks at the rate of 3-oz/M. Lastly, we put 10 gals Surf-Side in our 2000 gal FERTIGATION TANK and meter 450 gals of mix into our irrigation line per week. The Surf-Side gives us a quicker response on leaf absorption of nutrients. Surf-Side 37 can bring overall maintenance & watering costs into line... **The product pays for itself.**

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Greek owners plan to begin construction at Afton Mtn. in '93

WAYNESBORO, Va. — A country club and PGA championship golf course would comprise 203 acres of a proposed 898-acre, \$275 million development at the foot of Afton Mountain.

The Greek owners of the Bruchem property, wedged between U.S. 250 and I-64 east of Waynesboro, hope to begin construction in 1994. The development is planned to be phased in over 20-25 years.

Components other than the golf course include parks/recreation/open space; single family dwellings; hotels and restaurants; corporate research park; retirement village; lakes, water and rights-of-way; and health spa/medical resort.

Owners are Liberty Holdings Inc., of Piraeus, Greece.

Rezoning is seen as current priority.

Developer hopes media campaign halts opposition

PLEASANTON, Calif. — The developer of a planned southeast Pleasanton golf/housing project has hauled out the public relations driver to blunt neighbor opposition.

Applicant Chang Su-O Lin thinks a media blitz may counter referendum effort.

City Council members, on a 3-2 vote, upheld its decision to approve 86 houses and an 18-hole golf course on 562 acres adjacent to Kottinger Ranch.

Mayor-elect Ben Tarver, with Dorothy Scribner in the voting minority, said he had the support of the majority of the new council to kill the project on the basis of signatures gathered — rather than letting it proceed to a costly special election.

Project protesters cited traffic increase and environmental damage from the course and offered to drop referendum efforts if only homes are built.

SAND GREENS

SAND GREENS

City wrestles with site selection process

KALISPELL, Mich. — A second Kalispell golf course is likely, but city and Kalispell Golf Association officials continue to wrestle with site selection.

Possible enlargement of the city-owned and managed 27-hole Buffalo Hills course appears to have lost favor.

Property at the city's west edge along Ashley Creek was considered for a 27-hole layout, but that prospect has dimmed.

City manager Bruce Williams informed the City Council that he expects the KGA to present a proposed project to the city by the end of the year.

The city then should be ready to create a golf authority.

Coyote Lakes project would be major boost to area's economy

SURPRISE, Ariz. — An 18-hole golf course to be developed on 308 acres known as Coyote Lakes, coupled with 29 acres of commercial development, will boost this city's population and whet the sports appetite of residents, developers and officials believe.

Plans for Coyote Lakes, first proposed in 1984, had been stalled by foreclosure problems.

Surprise officials and new developers Coyote Lakes Joint Venture have been working on "conceptual ideas" for more

than a year.

The joint venture includes Peoria's Lakepoint Development Corp. and Foundation Development Corp.

Coyote Lakes, wedged between Sun City and Sun City West, is designed for 768 single-family residences on 145 acres.

The City Council also has approved the first phase of a new retirement community that will encompass 386 acres.

The two planned communities will add 1,500 homes to the city.

Pima Canyon set to go, except for money

TUCSON, Ariz. — Pima County supervisors have approved a proposed \$110 million, 400-room resort and golf course near the mouth of Pima Canyon, but the developer's spokesman says the project is not set for launch.

"It is contingent on financing," said John Stouffer of Stouffer Hotels Co.

The hotel and golf course would consume 200 acres of the 450-acre property owned by Donald Diamond and Donald Pitt of Tucson. County supervisors favored the project, 3-2. Dissenters Greg Lunn and Raul Grijalva voiced concern about river-side areas in the project, adjacent to Coronado National Forest.

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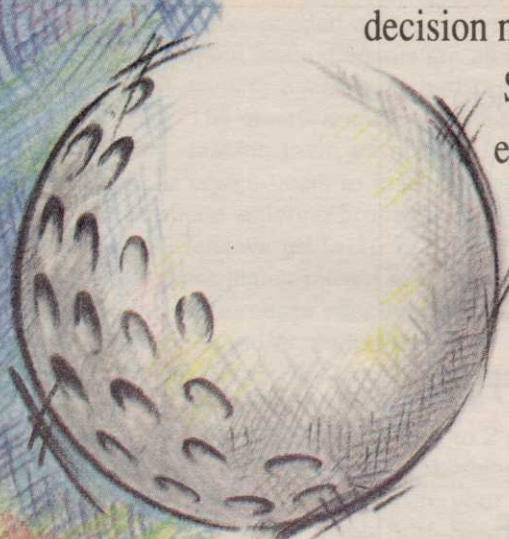
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Goforth hopes third time is a charm

MOLINE, Ill. — Its two earlier proposals to build a resort-quality golf course and upscale housing complex near the Quad City Airport having snagged on financial shoals, the Chicago-based Goforth Group Ltd. has proposed a new plan to the city council.

It calls for the school district to underwrite part of \$6.5 million in bonds. The school committee has indicated its willingness to dis-

cuss rebating some of the added property taxes it would receive from the Goforth project.

The school district would receive 2-1/2 times as much in tax revenues from the proposed development as the city.

Goforth hopes to build a \$150 million complex on 450 acres of unincorporated land southeast of the airport.

Its proposal last summer to split with the city property taxes

generated by the project was rejected, as was a proposal to drop property-tax sharing and seek \$6.5 million from the city for infrastructure work.

The latest plan would make the city responsible for the bonds until the project generated enough property tax revenues for the school district to rebate some money to the city.

Developers upset with rising costs of Layton golf project

LAYTON, Utah — Jim Hart, one of multiple developers interested in a proposed golf course in west Layton, thinks off-site improvements amounting to \$250,000 is "a lot of money to stuff into a little project."

The proposed development would include a nine-hole course, putting course, driving range and batting cages.

Developers are seeking a

waiver of impact fees such as curb, gutter and sidewalk requirements, along with no installation of a storm pipe costing \$50,000 because their development won't generate any water runoff.

City officials say the pipe will be needed when the area develops. They don't want developers to improve the streets now, only to have the city at a later date tear them up and install the pipe.

Black Diamond opens new nine

LECANTO, Fla. — The front nine holes of Black Diamond Ranch's new golf course — designed by Tom Fazio of Jupiter and appropriately called the "Ranch" — has opened for play.

The second nine holes should be completed in the next two to three years, said Black Diamond General Manager Terry LaGree.

Owner Stan Olsen said that, unlike the original course which circled the quarry and contained hundreds of ornamental trees, the new nine features natural vegetation such as rosemary, black pine, slash pine and live oak.

Tee markers will be conspicuously absent. Players will decide their own drive setup.

A clubhouse three times larger than the existing facility eventually will be built.

Airport board mulls golf course issue

POCATELLO, Idaho — While Pocatello Regional Airport commissioners see largely clear skies in weighing construction of a multi-million golf course here, a couple of cloudy issues remain on the horizon.

Commissioners want to examine design layouts, to see if an 18-hole course would fit into the airport's long-range plans. They also want to be included in negotiations with developers, especially in setting aside land.

The city council last summer authorized spending up to \$10,000 to obtain design drawings and also explore methods to raise the estimated \$2 million for construction.

Carlisle CC asks for Middlesex rezoning

CARLISLE, Pa. — A proposal for construction of an 18-hole golf course and up to 900 homes behind Carlisle Country Club has Middlesex Township supervisors considering zoning ordinance amendment.

KMWW Partnership wants to build on a 505-acre former horse farm it owns.

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Daily fee facilities deserve level playing field

An apple fell on my head during Golf Summit '92, hosted last fall by the National Golf Foundation in Orlando. During a panel discussion on alternative facilities, Bob Barrett — director of golf at Sunbelt Golf Corp. — described how his firm has successfully financed a multi-course golf "trail" in Alabama using state pension funds.

This wasn't news to me. *Golf Course News* had already published stories on the Jones Trail, so called because all the projects were designed by Robert Trent Jones, Inc.

However, when Barrett had finished, our table was asked to discuss various aspects of the Jones Trail project. My view was unwaveringly clear: What a great idea! Alabama ranks 48th in public golf availability. Affordable greens fees prevail. The state helps fund the project with an eye on tourism dollars down the road. And local builders are put to work.

Most everyone at my table

agreed — everyone, that is, except the Zimmermans, a married couple from Wisconsin who own and operate Kettle Hills Golf Course in Richfield. The Zimmermans are tired of competing with "government-funded" (read: municipal) golf facilities in the greater Milwaukee area. The Jones Trail — with its inventive albeit socialistic funding mechanism — was the last straw.

"I wonder how the private daily-fee operators in Alabama feel about this project," said Mr. Zimmerman, politely but with some irritation.

And you know, he has a good point. Because most of them weren't created to make money, municipal courses are often subsidized by city budgets — and they don't pay property taxes. The result? Artificially microscopic greens fees.

Mr. Zimmerman's argument was driven home at Public Golf '92, a conference



Hal Phillips
editor

sponsored by *Golf Course News* in November. Private operators of daily fee golf courses agreed with Mr. Zimmerman: They simply cannot charge municipal-level greens fees

and turn a profit.

There's another problem here, totally unrelated to the golf course industry. The Reagan-Bush years saw a sizable decrease in federal funding of mandated programs. Cash-strapped state governments, in turn, passed on these cuts to municipalities. Federal education funds, for example, are at an all-time, per-pupil low.

Perhaps we can kill a few birds with one measly stone. Cities and towns are beginning to realize their golf courses can be money-makers. If dressed up a bit, these facilities could charge more for greens fees, and thus augment municipal

budgets. Maybe the golf profits could be earmarked for something specific, like schools or trash pick-up.

Among other things, Public Golf '92 taught us that, when it comes to renovations and/or start-up developments, municipalities currently have multiple finance options.

If municipal courses raise their greens fees and offer commensurate value, isn't everyone better served? The private daily-fee operator gets fair competition. The municipal government can sustain needed programs. While the taxpayer/golfer pays more for municipal golf, he or she also gets a better municipal facility.

Private daily-fee operators don't want municipal facilities to close their doors. They just want to compete on a level playing field.

With a little ingenuity, cities and towns can make the competition more fair, and solve some of their own problems at the same time.

Public Golf '92 was chock full of lessons for learning



From the State-of-the-Game prologue by Rick Norton to a dynamic presentation on using television and radio to market your golf course by National Golf Course Owners Association President Vince Alfonso Jr., many lessons were taught at Public Golf '92. *Golf Course News*' first conference on the profitability of public golf was jam-packed with helpful



Mark Leslie
managing editor

information from some masters of the industry.

Information and suggestions were many and varied. My favorite came from Steve Lesnik, president of Kemper/Lesnik. "Preserving the condition of the golf course is managing for profit. Otherwise, it's like selling a soiled baseball," Lesnik said.

Continued on page 50

Letters

MORE SHAPERS OF NOTE

To the editor:

I enjoyed reading "The shape of things to come" by Mark Leslie. A good shaper is invaluable, as it is their work that makes the difference between an average course and a good or great one.

All the shapers mentioned are exceptional and deserving of the accolades, but I believe you missed two. Their names are Harold Dulin and Bill Grisham. Harold started shaping in 1945 with Perry Maxwell and continued on with Press after Perry's death. Bill, who works for Harold, started somewhere around 1956 and is still working.

It would be hard to list all the courses they worked on, I doubt if they even remember, but here are a few where they left their mark.

Cherry Hills C.C. (Denver), Hiwan (Evergreen, CO)

Prairie Dunes (Hutchinson, KS), Pecan Valley (San Antonio)

Kissing Camels (Colorado Springs), Fairfield Bay (Clinton, AR)

(Some of this work is remodel as well as original construction)

Both men live south of Spring-

field near Crane, Mo. Neither has been much for recognition and I thought maybe it was time.

Just visiting with Harold is a real treat.

Pat LeValley, P.E.
Project Manager
Wildcat Golf, Inc.

INSENSITIVITY CHARGED

To the editor:

I am writing in reference to the choice of word reflected in your caption concerning the distinguished Powell Family ("Powell clan honored by NGF" — October, 1992).

The term "clan" was not only repulsive but was extremely demeaning to the African-American Race. The accomplishments achieved by the Powell Family are certainly significant, and should have been mentioned. Mr. Powell who designed, developed and owns the Clearview Facility is probably the only African American in our country to have accomplished this extraordinary feat. In addition, Renee enjoyed a 13-year professional career, the longest tenure of any African American on that tour.

I believe as a service to your

readers, these facts could have been related. Further, this extremely coveted award is certainly one that demands an explanation of those criteria used to select, as well as the list of prior recipients.

Golf continues to be a major contribution to racism in our country. Articles such as this type, minimal treatment of achievement, does little to improve the plight of minorities in this industry. I have made the effort to acquaint you with what I believe could be an honest oversight.

Elmer Beard
President

Jackson Park Golfer's Assoc.
Chicago, Ill.

Editor's note: The word "clan" is a term of Scottish nomenclature meaning family or blood relation.

TECHNOLOGICAL ADDENDUM

To the editor:

I enjoyed reading the attached article ("Landfill course catches world's attention," October, 1992 edition) and would like to make you aware that part of the technology that made this project possible was designed and installed

by our company. The Horizontal Well System that was used at the St. Lucie course has been patented by us and developed over the last five years. It is currently working in seven major golf courses in Florida and South Carolina and is planned for use at a dozen more courses in the Southeast and the Bahamas.

We feel this technology will be widely used in the golf course industry in the future, because it will solve, in many areas, the one problem that is most on the minds of owners and operators: a good supply of irrigation water! This system can recover and recycle water from surficial water supplies that lie beneath golf courses in quantities great enough to fulfill most irrigation needs.

I have included information on our systems, as well as a video, and I hope you will give mention in your fine publication to let the industry know that there is an alternative source of water now available.

Donald R. Justice
President

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GOLF COURSE NEWS

Former GCSAA president speaks out on proposed bylaw changes

There was some thought, on my part, to just let the new bylaws slide by without expressing my opinion. However, after hearing from a number of my friends from around the country, I have decided to express my thoughts on this matter.

As many of you know, during my presidency of the Golf Course Superintendents Association of America, proposed bylaws were brought to the membership and were overridden. This could very well be the case again this month. The membership should question any and all changes, especially changes that are announced in *Golf Course Management* magazine, which seems to be very one-sided.

Do you really believe they (staff or the board of directors) could not find at least one member who would question these proposed bylaws? Those of you who read the article in this magazine understand how they have tried to mesmerize us.

If the association is able to put out information like this unchallenged now, it makes one wonder what our voice will be in the future. A number of times Bob Williams — the enterprising president of the GCSAA in the late 1950s — has said to me, "Is the tail

Mike Bavier, CGCS, is head superintendent at Inverness Golf Club, Palatine, Ill. He is past president of the GCSAA. The following column has been reprinted with permission of the author. It originally appeared in Heart of America newsletter.

wagging the dog?"

During my term as president, we tried to change the bylaws to give the board the power to set the fee for dues. That bylaw proposal was defeated, with only a small percentage of delegates in favor of the change. The bylaw change did not occur, and probably was for the better.

Even if you trust people running the association at present, what about future boards? The more power you give a governing body, the less power we have in our own hands. We support the association with our dues, which is only a small percentage of the association's budget. Most of us realize this already.

The golf courses with the most purchasing power are the main support of the association. Just think of that statement for a moment. We, the superintendents of these golf courses, are the ones the association needs to really make the whole organization work.

Let the directors come to the delegates and explain their futuristic ideas. Then give the delegates the opportunity to give their ideas in return. This might be called accountability. Will you have that with your one vote? NOT!! Just maybe the next statement will be, "Read my lips—no more increases in dues."

The one vote is another issue. We have that one vote in our local chapters. This, you might say, is our electoral college. The chapter delegates are typically your



Mike Bavier

most interested people in your local chapter, usually responsible and dedicated. Have they failed us in the past? My opinion is, they have done a fine job.

Are they telling us that the directors on the board are incompetent? Some of us might question the directors' thinking, but we also realize they are doing a good job. Remember, they are part-time administrators. The delegate method of voting has worked in the past, and would probably continue to work in the future.

Some of the fiber of our association — again I repeat, "Our Association" — is the camaraderie that has developed between delegates. This is what makes an association something you want to be a member of now, and hopefully in the future.

The GCSAA Golf Tournament is another good example of "association fiber." Reflect back and remember the conferences that you were most involved with were probably the ones that you had the best time at, and enjoyed the most. The hospitality rooms are also another piece of fiber.

Will all this be eliminated by the new election process? These fibers are all part of the "association fabric" that we currently enjoy.

Change is important, we all know that. Keep the two-thirds vote to amend the bylaws, and let the directors do their job selling their ideas to the membership,

instead of mandating them.

The delegates should start meeting at the conference to discuss the future of the association and make suggestions in the form of motions to the GCSAA board. This was done in the past, and should be considered again. The Past Presidents Council (that was started by Bob Williams and functioned as an advisory group) was recently dissolved by the board of directors.

The council still exists but meets merely as a social group. The delegates and the Past Presidents Council should also be included in the decision-making process.

Remember: Bill Roberts said, "Any feat of decision-making being concentrated in the hands of too few is unfounded. The membership retains final authority over direction of association affairs through the election process."

In your dreams!!!

The purpose for which the association was formed was "to provide for and enhance the recognition of the golf course superintendent as a professional." As professionals, we need to take a close look at the proposed bylaws, make a competent decision, and then proceed with caution.

In spite of some difficult problems over the years, the association has had many accomplishments. If you would like to discuss any of this, give me a call at (708) 358-7030 and let's talk. Otherwise, see you all in Anaheim.

Letters

ANOTHER BYLAW OPINION

Editor's note: The following letter has been reprinted with permission from the author. It originally appeared in *Through the Green*, published by the Georgia Golf Course Superintendents Association.

To the editor:

In June, I wrote to President Roberts and requested a copy of the by-law changes to be presented at Anaheim or a copy of the by-law changes put to a vote by the members in 1991. In his response I did not receive either document, but did receive a "Future Directions" pamphlet. As I review the pamphlet, I have further questions.

- On the vote of members — The changes would not only take away Delegate Vote, but also Proxy Vote. If most people vote by mail there would be no chance for discussing the issues as we now have at the Candidate Briefing.

- On classification — If changed, not only will the Board set new classifications, but will have the right to add requirements for present classifications. If the changes needed can't be communicated well enough to get two-thirds of the members to know it is a better way, then it might not be a better way. I do feel some changes in classification of membership is needed and necessary, but should come through the approval of present members.

- On the Nominating and Election Committee — Who knows what the procedure will be? Usually if a change is proposed, the new way of doing things is presented for inspection and review, not just doing away with the old.

- On the Field Staffing Program — I continue to believe a trial period is better than an all out program, especially when, according to the pamphlet, this Field Staff-

ing Program will require a \$40 to \$50 PER YEAR dues increase. No wonder the Board wants the right to set dues. Wouldn't it be nice if we superintendents could develop our budget and then tell the members of the club what their dues will be for the year?

- And about the subject of cost — Why do we have to pay \$7 for a copy of Conference Proceedings and \$20 for an Employee Manual? What has happened to SERVICE to the members.

In the June issue of *Newsline* I see the headquarters building is being expanded. Less than a year ago at the dedication, we were told the new building would be good for four to five years. It seems like a tremendous cost to the Association and what is the status of the old H.Q. building? What success would a field staff person have at getting new members at a dues figure of \$350 to \$400 per year and increasing at a \$40 to \$50 rate per year?

As I urge all GCSAA members, I say again — Ask any question, study the answer, and be ready to support your decision by talking with your Chapter Delegate. We all want a better Association for the benefit of all its members.

Palmer Maples, Jr.
CGCS

BYLAW CHANGES? IF IT AIN'T BROKE...

To the editor:

My thoughts on the GCSAAs' proposed bylaw changes:

1. Voting Procedures

I am personally opposed to this change from the present voting delegate system to a one-person, one-vote system that would eliminate proxy and delegate voting.

While it sounds very appealing and democratic on the surface, I believe that it would

in fact put more power in the hands of fewer people. I have been a voting delegate for the last two years, and in that time the annual meetings that I have participated in have been approximately 5,000 votes cast. A one-person, one-vote system would almost certainly see that number diminish significantly.

I can understand why some people would like to see the delegate system eliminated. In the past this system has been abused by some individuals who fancied themselves power brokers or king makers. I can honestly say that I have not seen this kind of behavior in the last two years. While there may have been abuses in the past, I think that the current group of voting delegates has acted professionally and honestly.

2. Dues Approval Procedures

I am undecided on this issue. It does occur to me that I cannot recall a time when a proposed dues increase was voted down. In the past, the Board of Directors has done a very good job of justifying their proposals for dues increases, and I think the membership has responded by following the Board's direction in approving increases. One area that I would be concerned about in giving the Board the ability to increase dues is that we could suddenly see our dues increased to cover the cost of "special projects."

One bone of contention that I, and apparently many members, have is that our new headquarters building, which supposedly was built to serve our associations needs well into the future has already been expanded. This expansion, to the best of my memory was kept very low key and the justification for it also escaped me. I would be concerned about these types of projects becoming a normal occurrence if we had a Board of Directors that felt free to fund

projects by increasing dues.

3. Authority to Set Membership Requirements

I will not argue that there are probable changes that need to be made in both membership requirements and classification. However, I would like to see a program for these changes proposed by the Board of Directors for approval by the membership.

I am not against the idea of opening the association to other individuals, but I don't want to do it at the risk of losing our association's identity. We are the Golf Course Superintendent's Association of America, not the golf course mechanic's, golf course spray technician's, or golf course equipment or chemical supplier's association of America.

4. Change in Votes Required for By-Law Changes

Of all the proposed changes this is the one that I can unequivocally say that I oppose. I do not believe that it serves the best interest of the membership to change the present two-thirds requirement in voting to a simple majority. This, particularly in conjunction with the proposed changes in voting procedures, would put the future of the association in relatively few hands.

Our by-laws are, in effect, the constitution of this organization. I believe that if it has served us well for over 60 years then there is merit to the idea that a simple majority should not change that for the sake of expediency.

Continued on page 16

More letters
on page 16

Letters

SNOW RESPONDS IN TRACS DEBATE

To the editor:

I couldn't agree more with a statement made by Dr. Mike Hurdzan in an editorial in the October 1992 edition of *Golf Course News*. Yes, I agree completely that the USGA Green Section is biased!

Indeed, the Green Section is biased in favor of green construction techniques that are time-tested, have proven to be widely adapted throughout many climatic zones and environmental conditions, have been proven scientifically valid through numerous research investigations, and are published and available to anyone and everyone.

And the Green Section is biased against recommending green construction methods that are based on unreviewed or dubious scientific evidence, have not been field-tested over a reasonable period of time, rely on "miracle" amendments of which little is known, require unnecessarily high use of fertilizer and water, are not published and available in the public domain, or are

based on techniques that have consistently produced mediocre to poor results, such as the on-site rototilling of amendments into the surface of sand-based greens.

Yes, the Green Section is biased, and I'm sure that the clubs and courses we serve would have it no other way!

In 1968 the Green Section published a small booklet entitled *Building Golf Holes for Good Turf Management*. It contained many little tips to use during construction to help ensure the long-term success of the turf once the construction job was done. Though it has been out of print for at least a dozen years, we still receive many requests for this publication.

Not all of our Green Section agronomists have extensive hands-on construction experience, but we know from visiting more than 1,800 golf courses each year that too much of the construction work we've seen has ignored the long-term maintenance needs of the turf!

We also know, better than anyone, about the price paid by golf course superintendents and

THREE CHEERS FOR HURDZAN

To the editor:

Three cheers for Michael Hurdzan taking a direct stand on the U.S.G.A. and the TRACS program.

The key elements golf superintendents and green committees miss when they deal with the U.S.G.A. are:

1. The expense and exposure of U.S.G.A. "down in the trenches" knowledge mentioned by Hurdzan is non-existent.

2. The U.S.G.A. is simply a money-raising group that attracts donations from a naive American public.

The victim is the young inexperienced superintendent who is risking a career by listening to unproven opinion.

I might be going out on a limb, but I feel that the junior golf members who have gone through some of our training installations, have much more of a grasp on green construction methods and the upkeep of those greens than the U.S.G.A.

What the U.S.G.A. wants the public to believe is that qualified design and construction techniques are non-existent. What they should really do before they embarrass themselves any further is check people's credentials. It looks to me that Hurdzan has some excellent credentials.

Tom Briddle
Vice President
TecTonic, Inc.
Longmont, Colo.

The Green Section's proposed TRACS program (Turf Renovation And Construction Services) was conceived with the idea of educating superintendents, developers, owners and course officials about how the *dos* and *don'ts* of golf

course construction will affect the long-term maintenance of the turf on their courses.

This is absolutely in the realm of Green Section expertise. Based upon the tremendous favorable response we received about the TRACS program, it seems that superintendents and course officials agree.

However, to reach more people than could possibly be reached with a TRACS program, we have decided to write an expanded version of *Building Golf Holes for Good Turf Management*. It will be a "how-to" manual with one purpose in mind—to help golf courses enjoy the best possible turf for the dollars they spend on construction.

Many golf course architects and builders are dedicated to doing their best for their clients. We would welcome their input, including that of Dr. Hurdzan, in putting together our manual of tips for construction success.

James T. Snow
National Director
United States Golf Association
Green Section

EXPANDING ON FREAM'S COMMENT

To the editor:

I read with interest the commentary by Ronald Fream on the state of European golf development (November, 1992). I agree with Mr. Fream's conclusions and too have experienced first hand the follies of developers both in Europe and in Asia. However, I would like to expand on his comments. Mr. Fream politely declined to point out that many projects are conceived by ego-driven individuals hell bent on creating a monument to themselves. These projects are often times perpetuated by the expert golf architects and golf consultants from the U.S. The naive don't hold the mo-

nopoly. As mentioned by Mr. Fream, projects are created and controlled often times by someone who totally ignores the economic realities of the project. They enter a fantasy world that borders on lunacy. What is common among many golf consultants, project managers, and architects is a lack of concern at the time to do anything about it. After all, the money flows in projects like these. The famous phrase "we have found the enemy and it is us" should be relevant in retrospect.

The immediate future of European and Asian golf development is dependent on building more low end daily fee projects. Architects and consultants need to steer clear

of the "monuments of ignorance" of tomorrow. We need to recognize that relative to U.S. standards there are not many golfers on the European or Asian continent. There are just too few inexpensive public golf facilities available elsewhere in the world. Because there are so few, there is a very weak "feeder system" of experienced golfers willing to upgrade into higher quality public facilities and private clubs. Upscale markets don't exist in many areas.

Unfortunately, land costs remain a big obstacle to the development of lower end daily fee facilities. It is very difficult to achieve an acceptable rate of return on projects of this caliber. We have an opportunity. There is a current debate going on in the Uruguay round of the GATT talks (General Agreement on Tariffs & Trade) concerning farm subsidies. Basically the problem is the amount of farm land in production—principally in France and Germany—due to their respective governments price supports of this industry. Farming is a lucrative business for the French and German farmers. The price supports given European farmers encourages more production which in turn lowers world prices. This hurts U.S. farmers. The U.S. has recently threatened severe retaliation actions if the European community does not reduce these subsidies (i.e. 200% tariffs on white wine, et. al.). These threats have moved the discussion along and at this writing it appears that a compromise is likely. European farmers and communities dependent on farming obviously will not accede without a fight. Our opportunity as golf architects and consultants would be to promote golf facilities as an alternate use of farm land. Cogent arguments exist when the benefits to a community are outlined in terms of the economic contributions that a

Bylaw changes? If it ain't broke...

Continued from page 15

5. Field Staffing

I must admit that I am somewhat at a loss as to the justification for implementing this program. While I realize that there are many individuals maintaining golf courses in the United States who are not members of our association, I would not consider the majority of these people golf course superintendents. The idea that these field staff personnel will be funded partially by the recruiting of new members seems to be a very iffy proposition at best. Additionally, I am more concerned with getting quality members in our association than I am with increasing our membership and dues base.

The setting up of seminars, workshops, conferences, training seminars and speaking engagements around the country already has been accomplished through the efforts of local chapters and our existing GCSAA staff. I don't see how a field staff person will significantly add to the already excellent programs available to our members.

In conclusion, I do not doubt for one second that the proposed changes are, in the eyes of the Board of Directors of GCSAA, in

the best interest of the membership. While I would encourage our Board of Directors to continue to bring proposals to the membership that they feel are in everyone's best interest I am concerned that so much of our association's funds have been used in promoting these changes (special mailings, etc.) Of particular concern to me has been the obvious use of our national magazine as a forum to try to gather support for these proposals. I have always felt that our magazine should be an educational tool, but lately it has taken on the air of being a political tool as well. This is particularly disturbing when there is no opposing viewpoint being offered for review as well. In fact, our magazine does not even have an editorial page where an opposing viewpoint can be aired.

I think that the upcoming meeting in Anaheim will be the most important one since I have been a member of the Association. I am confident that regardless of what the final tally will be in the voting that the Association will continue to thrive, because we have so many individuals who are committed to its success.

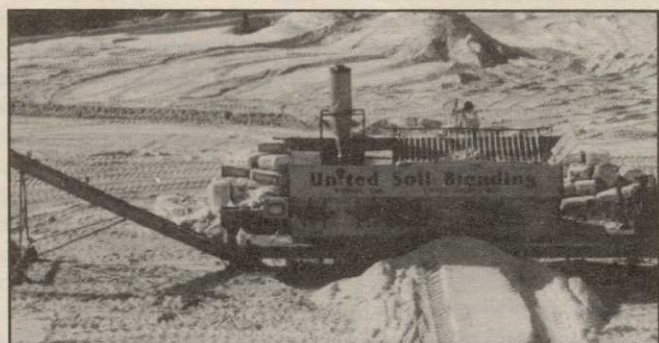
Bob Maibusch, CGCS

golf facility would bring. Factor in the offsetting costs of the reduced or removed farm subsidies and all of a sudden there could be a reasonable expectation by state or municipality that a golf project for the common person at affordable prices makes sense.

Promotion and awareness will be the key to success in this area. We have a lot of work to do. Presently, the foibles of the aforementioned egoists around the world have hurt our overall chances for growth. A

mechanism to consolidate a philosophy and determine a joint strategy among golf architects, golf consultants, and other golf companies should be found. In the absence of a cooperative effort in this regard, we risk slow to no growth and every Tom, Dick & Harry will continue to undermine our professional credibility. Or is it Thomas, Dagmar, und Heinrich?

Rudy Anderson
GM, Wolferts Roost CC
Albany, New York



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Show Time '93

It's show time!

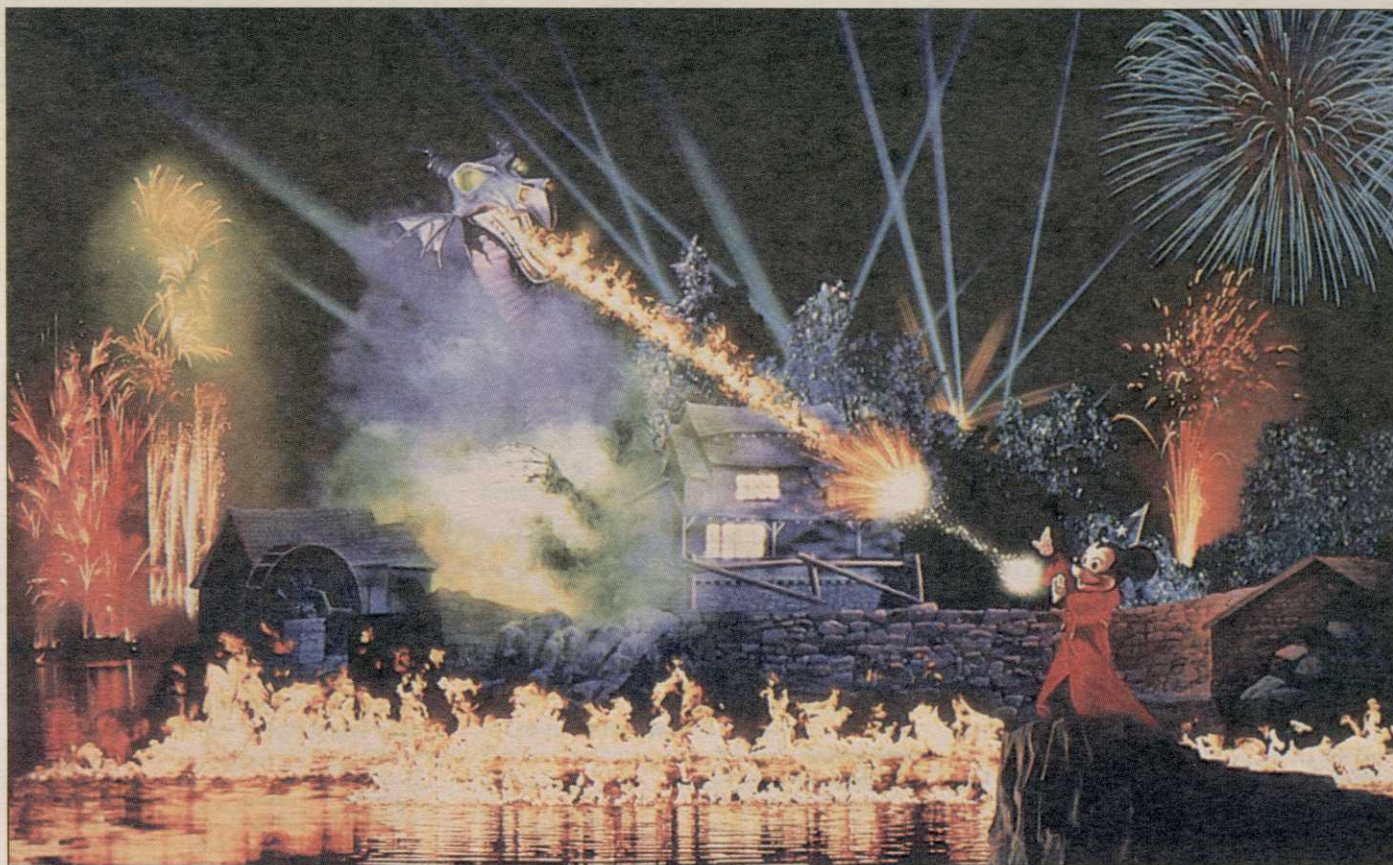
And much of the best entertainment in L.A. is not in your tour guide

By HAL PHILLIPS

ANAHEIM — There should be no shortage of things to do when the Golf Course Superintendents Association of America isn't conducting its trade show, banquets and education program. There's nearby Disneyland, of course. And Hollywood. And Knotts Berry farm. Etc., etc., etc....

However, if you don't want to trod the beaten path, Southern California boasts a long, long list of fun spots your travel agent probably didn't mention. We at Golf Course News contacted numerous regional experts to compile the following rundown of restaurants, nightclubs and

Don't count on public transportation in the Los Angeles area. Rent a car — you'll be glad you did.



Disneyland, one of America's most popular theme parks, sits nearby the Anaheim Convention Center where the International Golf Course Conference and Show will be held, Jan. 23-30.

other exotic locales.

But before we get started, here's a piece of advice, one you've probably heard already, from your travel agent: Rent a car. There is precious little public transportation in the Los Angeles area, and Anaheim — not a walker's paradise — is a good hour from many downtown activities. It may sound like a long ride, but that's a fact of life in L.A.

• **Hermosa Beach** is the L.A. surfer beach. For scenery and seclusion, the best bet is **Laguna Beach**, which has cliffs overlooking the shoreline and rock formations jutting into the sea, making parts of the expanse seem completely private. **Venice Beach** is best for people-watching, but swimming is not advised.

• If you get tired of Mexican and nouvelle cuisine, there's an appropriate

alternative for superintendents on vacation: **The Great Scot** on Los Felix Boulevard in Los Angeles, on the way to Glendale. It's not the 19th hole at Carnoustie, but this place does serve authentic British pub food and features a nice beer selection. The entire staff is Scottish — but they don't wear kilts.

• If you're looking to spot a few celebrities during your stay in Tinseltown, don't bother with Hollywood or Mann's Chinese Theater. Head straight to the posh **Polo Lounge**, situated in the Beverly Hills Hotel. It's pricey, but the elite are often patrons there. **The Bonaventure Hotel** in downtown L.A. is also a classy place to have a cocktail and hang with the rich and famous. No pointing, please.

• **Catalina Island** is ideal for day

trips. The boat leaves from Long Beach (a 30-minute ride from Anaheim) and the high-speed crossing takes just 45 minutes. On island, visitors can go hiking or rent golf carts for transportation. Snorkel and scuba gear can be rented in the main town, Avalon, where shops and restaurants abound. Don't be surprised if you see some buffalo. Seems Catalina was the site of many a western film, and buffalo were imported for authenticity. There were left on the island, thrived and now roam freely.

• You hear a lot about Rodeo Drive and Melrose Avenue, but they're trendy, expensive and distant. **Laguna Beach** features the best shopping in the Anaheim area.

• Looking for live music? Los Angeles

Continued on page 20

Bennett looking to defend GCSAA title

By PETER BLAIS

Forget the oversized driver, long-shafted putter or sports psychologist. Defending GCSAA tournament champion Gary Bennett knows how to raise your game to the next level.

Marriage.

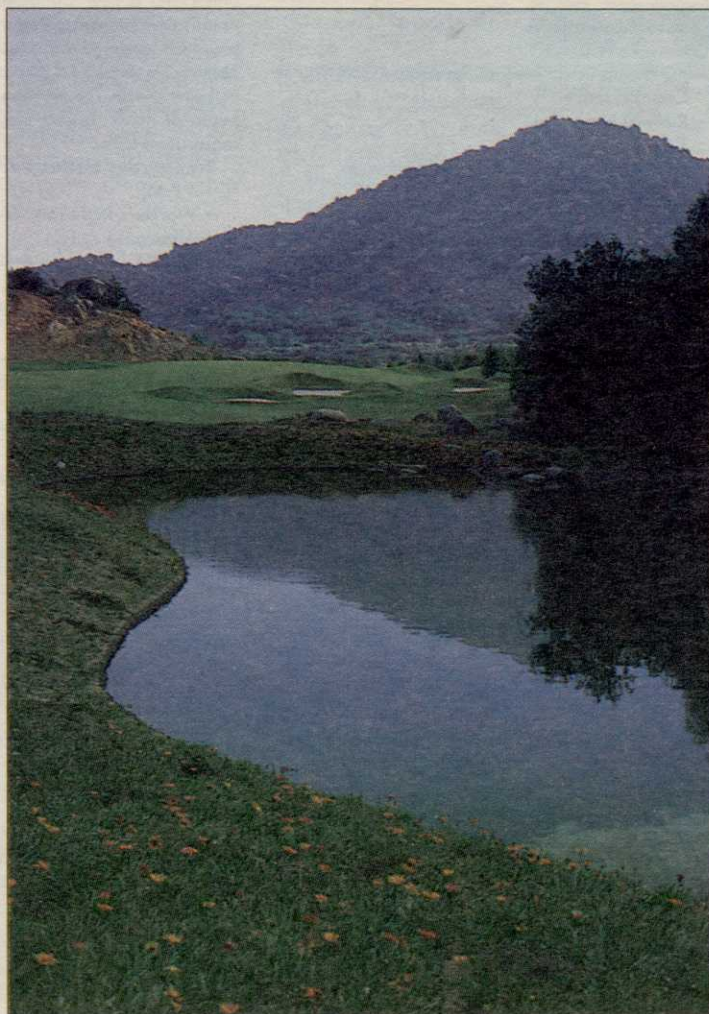
"I remarried a wonderful school teacher in August. I've only played three times since then. But I've shot par or better each time," said the head superintendent at Crickentree Golf Club near Columbia, S.C..

Bennett has to be one of the favorites heading into this year's GCSAA tourney in San Diego. Despite his low number of rounds played, Bennett's confidence is high. That's as it should be considering the scratch golfer's five-stroke victory in last year's 36-hole tourney played over Sawgrass Country Club and TPC at Sawgrass in Ponte Vedra Beach, Fla. Bennett won his first crown even though he played with a broken finger.

"It just depends on who is playing well at the time. Confidence has a lot to do with it," said Bennett, 44, who finished second in 1987 and in the top 10 every year he's entered, except 1980.

This year's tournament will be Jan. 23-24. The courses include Carlton Oaks Country Club, Eastlake Country Club, Mt. Woodson Country Club and Steele Canyon Golf Club.

Continued on page 68



Mt. Woodson CC is one of the four GCSAA tournament courses.



Inside:

• Dinah Shore (above) is this year's winner of the Old Tom Morris Award. For a complete listing of past winners, see page 21.

• Thumbnail sketches of this year's candidates, page 19.

• For a complete schedule of this year's seminars, turn to page 18.

• For coverage of the proposed bylaw amendments, see page 1. For views from our readership, turn to page 15.

1993 GCSAA Seminar Schedule

Show Time '93

Pre-Conference Seminars

You may select from 54 one- or two-day seminars to meet your professional needs. The line-up offers nine new programs, many of which address important environmental concerns that golf course superintendents face today. The following listing provides descriptions for all seminars to be offered Jan. 23-26, 1993, in Anaheim. Use this listing to determine which seminars are most appealing to you. CEUs earned are shown in parentheses.

(Note: • denotes Division I seminar.)

SATURDAY JAN. 23

- Basic Principles Of Turfgrass Management (1.4)
- Construction And Renovation IPM (1.4)
- Disease Identification And Control (1.4)
- Environmental Considerations In Golf Course Management (1.4)
- Golf Course Construction Techniques And Management (1.4)
- Golf Course Restoration, Renovation And Construction Projects (1.4)
- Introduction To Integrated Pest Management (1.4)
- Irrigation Part I: System Component Technology (1.4)
- Landscape Design And Plant Materials (1.4)
- Managerial Productivity (1.4)
- Turfgrass Insects: Basic And Advanced Principles (1.4)
- Weed Control (1.4)

SUNDAY JAN. 24

- Computers And Turf Management (.7)

MONDAY AND TUESDAY JAN. 25 and 26

- The Assistant Superintendent: Managing People And Jobs (1.4)
- Basic Turfgrass Botany And Physiology (1.4)
- Chapter Editors Seminar (1.4)
- Golf Course Design Principles (1.4)
- Golf Course Restoration, Renovation And Construction Projects (1.4)
- Insect Pests On Golf Course Trees And Shrubs (1.4)
- Introduction To Soil Science (1.4)
- Irrigation Part II: Systems Design, Operations And Management (1.4)
- Plant Nutrition And Fertilizers (1.4)
- Protection Of Water Resources (1.4)
- Turfgrass Identification And Utilization (1.4)
- Executive Development Seminar: The Personal And Interpersonal Dynamics Of Leadership (1.4)

MONDAY JAN. 25

- Budgeting And Forecasting (.7)
- Calculations And Practical Mathematics For Use In Golf Course Management (1.7)
- Developing Your Hazard Communication Program (.7)
- Financial Management (.7)
- First Aid: American Red Cross (.7)
- International Seminar: International Environmental Concerns (.7)
- Irrigation Efficiency (.7)
- Maximizing Job Satisfaction (.7)
- Maximizing Turfgrass Disease Control (.7)
- The Microbiology Of Turfgrass Soils (.7)
- Scouting, Sampling And Monitoring Golf Course Pests (.7)
- USGA Intermediate Rules Of Golf (.7)
- Water Quality (.7)
- Wildlife Management And Habitat Conservation (.7)

TUESDAY JAN. 26

- Certification Exam Study Guidelines (No CEUs)
- Drainage Systems (.7)
- Employee Safety Training (.7)
- Familiarization With Accounting Procedures (.7)
- Pete And Alice Dye On Golf Course Design (.7)
- Golf Course Safety, Security And Risk Management (.7)
- Implementing Strategies And Plans For Turfgrass Environmental Systems (.7)
- International Seminar: Basic Insect And Soil Concepts (.7)
- Irrigation Scheduling Techniques (.7)
- Options And Their Application In Pest Management (.7)
- Personnel Functions Of The Golf Course Superintendent (.7)
- Practical Tree Management (.7)
- Turfgrass Stress Management (.7)
- Underground Storage Tank Selection And Instal-

lation (.7)

- USGA Golf Course Rating System (.7)
- Turfgrass Tour (.5)

WEDNESDAY JAN. 27

Golf Course Management Techniques: Part I

Chairperson:
Pat Cobb, Ph.D.

- 8:30 — Resistant Turf Cultivars — An IPM Strategy
James Reinert, Ph.D.
Texas A&M University
- 9:00 — New Technologies in Vegetative Establishment of Turfgrasses
Terry Riordan, Ph.D.
University of Nebraska
- 9:30 — Pre-and Post-Emergence Control of Annual Bluegrass on Greens
Bruce Branham, Ph.D.
Michigan State University
- 10:15 — Estimating Turf Water Requirements on the Golf Course
Jack Fry, Ph.D.
Kansas State University
- 10:45 — Update of Biostimulant Impact on Turf Management
Richard Schmidt, Ph.D.
University of Nebraska
- 11:15 — Rolling Greens - Benefits, Potential Problems & Precautions
James Beard, Ph.D.
Director & Chief Scientist Int'l Sports Turf Institute
- 11:45 — Considerations in Chemical Storage
Pat Jones
Director of Development GCSAA

- Managing Today's Environment
Chairperson:
Bruce Cadenelli
- Voluntary Posting on the Golf Course — Perceptions of Supts. and Golfers
Roch Gaussoin, Ph.D.
University of Nebraska
- Crisis Communication
John D. Fox
University of California
- Can You Justify a Scout for Your Course
Pat Vittum, Ph.D.
Univ. of Massachusetts
- Understanding Enhanced Biodegradation of Pesticides
Ronald Turco, Ph.D.
Purdue University
- Fate of Pesticides Applied to a USGA Green
John Cisar, Ph.D.
University of Florida
- Core Cultivation Effects on Pesticide Leaching
Marty Petrovic, Ph.D.
Cornell University
- Managing N and P to Protect Surface Water Quality
Mike Agnew, Ph.D.
Iowa State University
- Growing in the New or Renovated Golf Course
Chairperson:
Richard Neumann, CGCS
- Planning Implementation and Follow-up
Randy Zidik, CGCS
Rolling Hills C.C.
- What to Do After the Contractor Leaves
Bud White
Lesco Inc.
- Doing It Right Now or Later
Jon Scott
Jack Nicklaus Golf Services
- Soil Physical Analysis and How to Use It
James Thomas
Thomas Turf Services
- Fertilization During the Grow-In of New USGA Greens
Robert Carrow, Ph.D.
University of Georgia
- New Techniques for Overseeding Golf Courses
Coleman Ward, Ph.D.
Auburn University
- Pre-Emergence Herbicide Impact on New Root Growth
Joe DiPaola, Ph.D.
N. Carolina State University

Golf Course Management Techniques: Part II

Chairperson:
Dave Nielsen, Ph.D.

- 1:30 — Golf Course Management by the Year 2000: Facts and Fiction
David Kopec, Ph.D.
University of Arizona
- 2:00 — Innovative Management Techniques from Around the U.S.
Trey Rogers, Ph.D.
Michigan State Univ.
- 2:45 — Patch Diseases: Current Strategies for Managing Them

- Henry Wilkinson, Ph.D.
University of Illinois
3:15 — Insect and Mite "Friends" of the Turfgrass Environment
Harry Niemczyk, Ph.D.
The Ohio State University
3:45 — Cultivation Programs for Water Use Efficiency & Improved Quality
Robert Carrow, Ph.D.
University of Georgia

- Southern Turfgrass Management
Chairperson:
Mark Esoda, CGCS
- Bentgrass Cultivar Evaluations for Golf Greens
Gilbert Landry, Jr., Ph.D.
University of Florida
- Perennial Ryegrass Clump Control in Bermudagrass
L. Bert McCarty, Ph.D.
University of Florida
- Winter Weed Control in Non-Overseeded Bermuda Fairways
Tim Murphy, Ph.D.
Georgia Ag Experiment Station
- Root Responses of Tifway Bermuda to N Application Rates
David Gilstrap
Texas A&M University
- Seeded Bermudagrasses — Back to Future
Arden Ballensperger, Ph.D.
New Mexico State University
- Personal Management
Chairperson:
Randy Zidik, CGCS
- GCSAA Member Retirement Plan Update: Investing in the '90s
Steve Page
Merchants Investment Ctr.
- Self-Esteem and How It Affects Us in Our Jobs
Bree Hayes, Ph.D.
The Hayes Group
- Time Management
Richard Hayes, Ph.D.
University of Georgia
- The Goal: A Tournament Condition Course
Tom Maloney
Cornell University
- Doing Your Best to Bring Out the Best in Others
Gerry Sweda
Sweda Training & Development Services

THURSDAY JAN. 28

Forums & Sessions

The Innovative Superintendent (Part I)

6:30-8:30 A.M.

Series of eight 15-minutes presentations
11:30 A.M. - 1:00 P.M.

The Members Briefing/Meet the Candidates meeting and Voting Delegates Luncheon have been combined into a new Candidates Luncheon, which is open to all members. You must purchase a ticket if you wish to attend and participate in the luncheon. No ticket is required if you do not wish to participate in the luncheon. The meeting portion of the event will begin at noon. Tickets may be purchased on the registration form.

Employees Issues Forum

1-4 P.M.

- Worker's Right-To-Know: Meeting the Need
- Affirmative Action
- ADA (Americans with Disabilities Act) and Golf - A Winning Combination

Successful Financial Planning Forum

1-4 P.M.

Specific topics will include balance sheet preparation, analyzing insurance, preparing cash flow statements, setting financial goals, and budgeting.

The Innovative Superintendent (Part II)

1-4 P.M.

Series of twelve, 15-minutes presentations

FRIDAY JAN. 29

- Prayer Breakfast
7:30 A.M.
- Glenn Egli, founder of Discipling Life Process Ministries in Tacoma, Wash. The Prayer Breakfast will be held at the Anaheim Hilton and Tower, with coffee and danish served at 7 A.M. The Breakfast is open to all faiths.
- Environmental General Session
9 A.M. - 12 NOON
- Look for further details in *Golf Course Management* magazine.
- American Society of Golf Course Architects
1 P.M., Arthur Hills, Moderator
- Designing for Environmental Balance
Arthur Hills
Toledo, Ohio
- ASGCA President
- The Ocean Course at Kiawah Island, South Carolina

- Pete Dye
Delray Beach, Florida

- Pelican Hill GC, Newport Beach, Ca.
- Tom Fazio
Jupiter, Florida
- TBA
David Rainville
Tustin, California

BREAK

- Fox Hollow GC, Lakewood, Colo.
- Denis Griffiths
Braselton, Georgia
- Summary

Computer Users Forum

1-4 P.M.

- Computerized Meteorology for Golf Courses
- Practical Computer Applications for Golf Course Management
- Budget Preparation with the PC
- Shareware — Better Than a Money-Back Guarantee

The Future Direction of Pest Management Technology Forum

1-4 P.M.

- Biological Control of Insects — Where Are We?
- Biological Control of Turfgrass Diseases
- Weather-Mediated Models for Predicting Turfgrass Insect Activity
- Pesticide Regulatory Update
- Biological Control of Weeds

Course Officials Forum

1-4 P.M.

- Golf Course Turfgrass as a Component of a Biological System
- Golf Operations Update: Cost of Doing Business
- Power and Politics in Golf Course Management
- Liability and Risk Management

The Use of Reclaimed Water Forum

1-4 P.M.

- The Installation of an Effluent Water Station (Florida)
- The Installation of an Effluent Water Station (California)
- How the Effluent Delivery System Works and Why Effluent Costs More (Florida)
- How the Effluent Delivery System Works and Why Effluent Costs More (California)
- Current Research in Effluent

SATURDAY JAN. 30

Equipment Managers Forum

1 - 4 P.M.

The Equipment Managers Forum is specifically designed to provide educational opportunities for the golf course staff members who are directly responsible for the management and maintenance of golf course equipment. The one-day Equipment Managers Forum registration includes Saturday morning on the Trade Show floor, providing an opportunity to discuss equipment issues with representatives of equipment manufacturers. In the afternoon, equipment manufacturing engineers and other experts will present the following educational sessions covering the latest trends in equipment design and upkeep, plus management and regulatory issues:

- The Role of the Turf Equipment Manager as a Part of the Golf Course Team
- The Relationship Between the Golf Course Superintendent and Equipment Manager
- Importance of Continuing Education for the Golf Course Equipment Manager
- Panel Discussion

United States Golf Association Green Section Program

1:00 P.M.

Fitting the Pieces in the Golf Course Management Puzzle

Chairperson: James T. Snow, National Director USGA Green Section

- Welcoming Remarks
Raymond B. Anderson
Chairman, Green Section Committee
USGA Executive Committee
- Turf Tips from the Green Section Staff
- The Environment: Where

- Environment, Nature and the Game Can Coexist
Robert Trent Jones
President
Robert Trent Jones II
• Evolving Roles in Golf
William R. Roberts, CGCS
President
GCSAA
- Turf Tips from the Green Section Staff
- Television Golf and Golf Course Superintendent

- Jerry Pate
Member, PGA Tour
President, Jerry Pate Golf Design
ABC Sports Commentator
- Turf Tips from the Green Section Staff
- Turfgrass and Golf Course Benefits - A Scientific Perspective
Dr. James B. Beard
Director
International Sports Turf Institute
- Turf Tips from the Green Section Staff

The Golf Course Superintendents Association of America's Nominating Committee has released the candidates for office.

Vice President Randy Nichols of Cherokee Town and Country Club in Dunwoody, Ga., is the lone nominee for president, but there will be competition for vice president and directors.

Vice presidential candidates are Joseph Baidy of Acacia Country Club in Lyndhurst, Ohio, and Gary Grigg of Genoa Lakes Golf Course in Genoa, Nev.

Candidates for director posts are Dave Fearis of Blue Hill Country Club in Kansas City, Mo., Joseph Hahn of Oakhill CC Golf Course in Fairport, N.Y., Charles Passios of the Hyannisport Club in Marstons Mills, Mass., and G.E. Renault III of the Chevy Chase (Md.) Club.

Candidates for President

Name: Randy Nichols

Age: 45

Course: Cherokee Town & CC, Dunwoody, Ga.

Former head superintendent at: Construction superintendent, Chatham Land & Development.

Years GCSAA member: 17

GCSAA posts held: Board member since 1987; current vice president and former secretary/treasurer; chairman of planning, conference and show, tournament, membership and government relations committees.



Randy Nichols

Other associations: Past president of Georgia GCSA; vice president of Georgia Turfgrass Ass'n.; member of Georgia State Golf Ass'n., Advisory Committee and Georgia Golf Hall of Fame Nominating Committee.

Education: Bachelors degree in turfgrass management, Mississippi State University.

Family: Wife, Jan; children, Gina, 21, Greg, 20.

Goal: Chose not to respond

Views on proposed bylaws changes: Chose not to respond

Name: Joseph Baidy

Age: 52

Course: Acacia CC, Lyndhurst, Ohio

Former head superintendent at: Fox Chapel GC, Pittsburgh; Oak Hill CC, Rochester, N.Y.; Manor CC, Rockville, Md.

Years GCSAA member: 28

GCSAA posts held: Current secretary treasurer; chairman of publication/awards, public relations, conference and show, tournament and scholarship and research committees.

Other associations: President of Greater Pittsburgh GCSA; member of Northern Ohio GCSA, Associated Green Industry of Northern Ohio, Ohio Turfgrass Association, American Society of Agronomy, USGA Green Section Committee, Pennsylvania Turfgrass Council, Allied GCSA of Pennsylvania.



Joseph Baidy

Education: Bachelors degree in agronomy, Pennsylvania State University.

Family: Wife, Judy; children, Michael, 26, Michelle, 25.

Goal: Chose not to respond.

Views on proposed bylaws changes: Chose not to respond.

Candidates for Vice President

Name: Gary Grigg

Age: 51

Course: Naples (Fla.) National GC

Former head superintendent at: Shadow Glen GC, Olathe, Kan.; The Lodger of the Four Seasons, Lake of the Ozarks, Mo.; VP of construction and maintenance, Kindred Management Co.

Years GCSAA member: 22

GCSAA posts held: Director since 1988; chairman of finance and membership committees; past chairman of scholarship and research committee; member of conference planning, future education resource, certification, tournament, nominating and public relations committees.

Other associations: Member of Florida Turfgrass Association, Everglades Chapter of Florida GCSA; former board member of Heart of America GCSA; member of Kansas Turfgrass Foundation, Missouri Valley Turfgrass Association, Texas Turfgrass Association and Southwest Turfgrass Association.

Education:

Bachelors degree in agriculture/entomology, Utah State University; masters in agronomy, Michigan State University.

Family: Wife, Coleen; children, Jill, 26, Jared, 24, Aaron, 19, Ryan, 12.

Goal: "We have a good board and have accomplished a lot. The board's responsibility is to analyze and evaluate programs. I have the education and experience to help do that. The most important thing we can do is continue to help superintendents further their education and increase their knowledge base."

Views on proposed bylaws changes: "As a board member, I'm very much in favor of the dialogue taking place over these issues. And whatever happens, I'll support the membership's wishes. In general I support the changes. They could all benefit the association. But I disagree with those who say GCSAA will be in dire distress if they all don't pass."



Gary Grigg

Candidates for Director

Name: David Fearis

Age: 46

Course: Blue Hills Country Club, Kansas City, Mo.

Former head superintendent at: Country Club of Peoria (Ill.); technical representative for O.M. Scotts for 4 years.

Years GCSAA member: 25

GCSAA posts held: International Conference and Show speaker, and session chairman; member of association planning, education, government relations, magazine, ethics, public relations, nominating, standards and integrated pest management special risk committees; charter member of Golden Tee Club.

Other associations: Past president of Central Illinois GCSA, Heart of America GCSA and Illinois Turfgrass Foundation; director of Midwest Regional Turf Foundation; member of Missouri Valley Turfgrass Association and Kansas Turfgrass Foundation.

Education: B.S. in agronomy, Purdue University.

Family: Wife, Lynn; children, Blaise, 13.

Goal: "I enjoy people and my GCSAA affiliation. I'll be an active director who will listen to and communicate with members. After all, any association is only as good as its members."

Views on proposed bylaws changes: "Whether they pass or fail, they have the membership interested and active. I'm not in favor of the board having the power to set dues, requiring a simple majority rather than the present two-thirds membership vote to change the bylaws, and adding field staff."



Dave Fearis

Name: Joseph Hahn

Age: 52

Course: Oak Hill CC, Fairport, N.Y.

Former head superintendent at: Locust Hill CC, Pittsford, N.Y.; Braemar CC, Spencerport, N.Y.

Years GCSAA member: 29

GCSAA posts held: Director since 1992; on-site tournament chairman; member of membership, bylaw, organizational study, regionalization and government relations committees.

Other associations: Member of New York State Turfgrass Association and Finger Lakes Association of Golf Course Superintendents.

Education: Graduate of DeSales High School, Lockport, N.Y.; completed many GCSAA seminars and is CGCS.

Family: Wife, Elaine; children, Mary, 28, Tim, 27, Paula, 26, Diana, 24, Heather, 23, Andrew, 22, Shannon, 18.

Goal: "To make sure continuing education stays a primary [GCSAA] focus and to reach out to the present and potential membership at smaller facilities."

Views on proposed bylaws changes: "I support all the issues. They will make for a better operation, better serve members and help those at smaller courses become members."



Joseph Hahn

Name: Charles Passios

Age: 35

Course: Hyannisport Club, Hyannisport, Mass.

Former head superintendent at: Cummaquid GC, Yarmouthport, Mass.; Middleton (Mass.) GC.

Years GCSAA member: 14

GCSAA posts held: Director since 1990; co-chairman of certification appeals committee; government liaison to board of directors; chairman of public relations and publications committees; vice chairman of certification and education committees; member of teaching resource advisory and government relations committees.

Other associations: Past president of Cape Cod Turf Managers Association; vice president of GCSA of New England; board member of Mass. Green Industry Council; member of U.S. Golf Association and Mass. Turf & Lawngrass Council.

Education: Associate degree in agronomy, Essex Agricultural and Technical College, Hawthorne, Mass.

Family: Wife, Fran; children, Daniel, 6, Sara, 3.

Goal: "To continue my involvement with the GCSAA and assist in the betterment of the profession."

Views on proposed bylaws changes: "I support all of them. They will go a long way toward determining our association's future and every individual member's future. They will take us to the next level as a profession."



Charles Passios

Photography regulations stricter this year

ANAHEIM — The board of directors for the Golf Course Superintendents of America (GCSAA) has determined that photography on the trade show floor will be restricted this year.

Only photographers wearing GCSAA-issued armbands will be permitted to take stills or video shots on the trade show floor. The new photography regulations also require a photographer to receive verbal approval from the supervising exhibitor at the booth before photographing an exhibitor's booth or display.

"At the request of our Industrial Advisory Council (IAC), the board felt that this was our best course of action," said GCSAA President William Roberts, CGCS. "There was a need to assist the manufacturers and protect the proprietary nature of their products."

The GCSAA's IAC comprises 14 exhibiting companies.

Only photographers with journalistic- or publicity-related responsibilities will be eligible for a GCSAA photo armband.

Name: George Renault

Age: 44

Course: Burning Tree Club, Bethesda, Md.

Former head superintendent at: Chevy Chase (Md.) Club, Penderbrook GC, Fairfax, Va., Goose Creek CC, Leesburg, Va.

Years GCSAA member: 15

GCSAA posts held: Member of government relations and scholarship and research committees; eight-year voting delegate.

Other associations: Past president of Atlantic Association of GCS and Greater Washington D.C. GCSA; member of University of Maryland Turf Advisory Committee and planning committee for the Maryland Turfgrass Council.



George Renault

Education: Certificate in golf and turfgrass management, University of Maryland.

Family: Wife, Lucinda; children, George, 15, Lucy, 11.

Goal: "I hope to help further educate people directly and indirectly involved in this industry on just what it is we do. We've done a good job educating ourselves, but fallen short educating others."

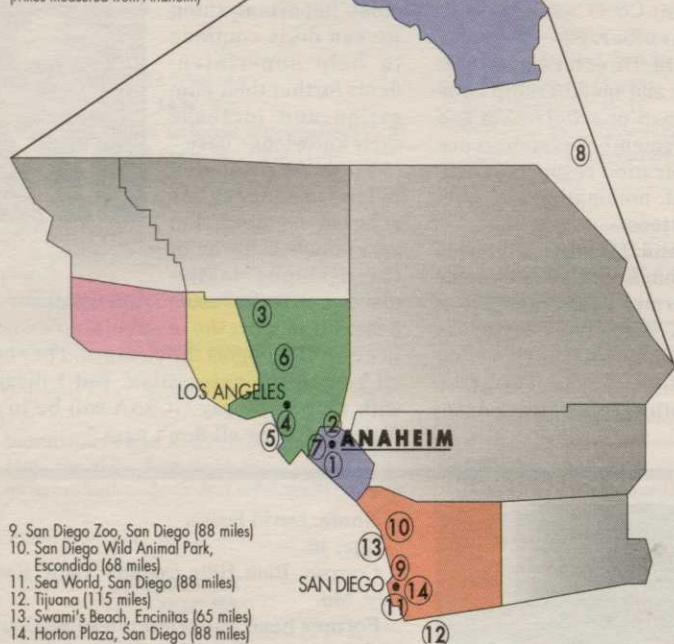
Views on proposed bylaws changes: "They could all be voted down. It just stresses the need for better communication with the membership."

"There is some good in the changes. But people feel they have had to act on them so quickly that they may just vote them down."

Show Time '93

Places to go,
things to do
in Southern
California

1. Disneyland, Anaheim
 2. Crystal Cathedral, Anaheim
 3. Magic Mountain, Valencia (56 miles)
 4. Fabulous Forum (Lakers, Kings), Inglewood (24 miles)
 5. Venice Beach, Venice (22 miles)
 6. Universal Studios, Studio City (36 miles)
 7. Knotts Berry Farm, Anaheim
 8. Las Vegas (272 miles)
- (Miles measured from Anaheim)



Things to do in Los Angeles

Continued from page 17

is loaded with nightclubs, but **The Rhythm Cafe** in Santa Ana (15 minutes south of Anaheim) is the closest. The RC has it all: rock, R&B, jazz and country. Call ahead.

- **Medieval Times** in Buena Park is definitely not on the tourist hit list. Just up the street from Knotts Berry Farm, this place can best be described as dinner theater set in the 14th century. For a reasonable price, patrons are served hearty meals (try the Cornish game hen) while young maids keep the flagons brimming with ale and mead. A lack of silverware contributes to the boisterousness, which culminates in a medieval tournament complete with jousting. Not your average night on the town.

- If you're looking for seaside dining and magnificent sunsets, you'll do no better than **Las Brisas** in Laguna. Enjoy L.A.'s best happy hour from the huge deck and watch the sun disappear over the Pacific. **Gladstone's** in Malibu is similarly breathtaking, only further up the coast.

- For culture, there's the **J. Paul Getty Museum** in Malibu. It's free and GCSAA members with an appreciation for flora can see Van Gogh's *Irises*.

- **Bernie's Beanery**, on Santa Monica Boulevard across from the I-Hop in West Hollywood, is something of a landmark. Not for the faint of heart, it used to be a wild biker

bar in 1960s — now it's a somewhat reputable establishment. You never know who you'll encounter at Bernie's

- **Third Street Promenade** in Santa Monica has something for everyone. Patterned after Boston's Faneuil Hall and New York's South Street Seaport, Third Street features a host of shops, restaurants and bars that cater to browsers and carousers.

GCSAA makes rare presentation of President's Award to NY Audubon

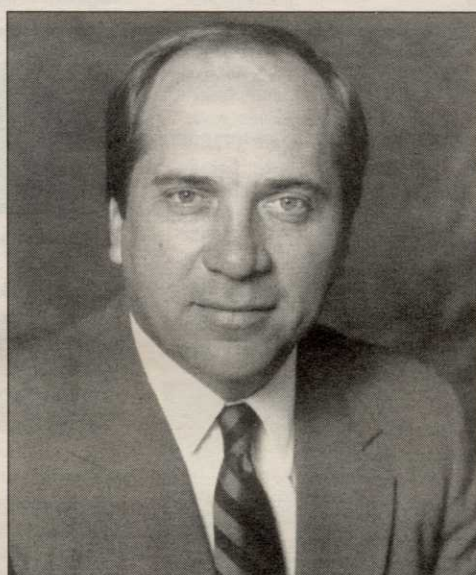
By MARK LESLIE

The President's Award for Environmental Leadership, given only once before by the Golf Course Superintendents Association of America, will be presented to the Audubon Cooperative Sanctuary Program.

The award will be given at the GCSAA banquet Jan. 30 to Ron Dodson, on behalf of the New York State Audubon Society. The society administers the program, working with superintendents to enhance the wildlife on their golf courses.

"We will be there and accept the award. But I feel I'm accepting it on behalf of all the people who have joined and are taking care of their courses with the environment in mind," said Dodson, the NYSAS president. "Our attitude is that we are trying to provide good credible information and support. The real heroes are the people actually managing the courses for the wildlife and environment."

Dodson feels the award will give the sanctuary program credibility among superintendents and encourage more to join.



BENCH TO LEAD OFF

Johnny Bench, Hall of Fame catcher for the Cincinnati Reds, will deliver the keynote address at this year's GCSAA show in Anaheim.

'We're the only environmental conservation organization with a full-time golf course program.'

— Ron Dodson,
NYSAS president

Dodson said that, as a long-time golfer, he was not surprised at superintendents' high rate of interest in the environment. He related one groundskeeper's comment that he had always felt he was in a car without a cockpit. The sanctuary program "gave me the steering wheel as to what wildlife needs," he told Dodson.

From its inception in the spring of 1990, the program grew to just over 100 members the first year, nearly 300 by the end of 1991, and eclipsed Dodson's goal of 500 for the end of 1992.

The staff has grown from Dodson and one part-time assistant to Dodson, two full-time ecologists, a managerial person and secretarial support.

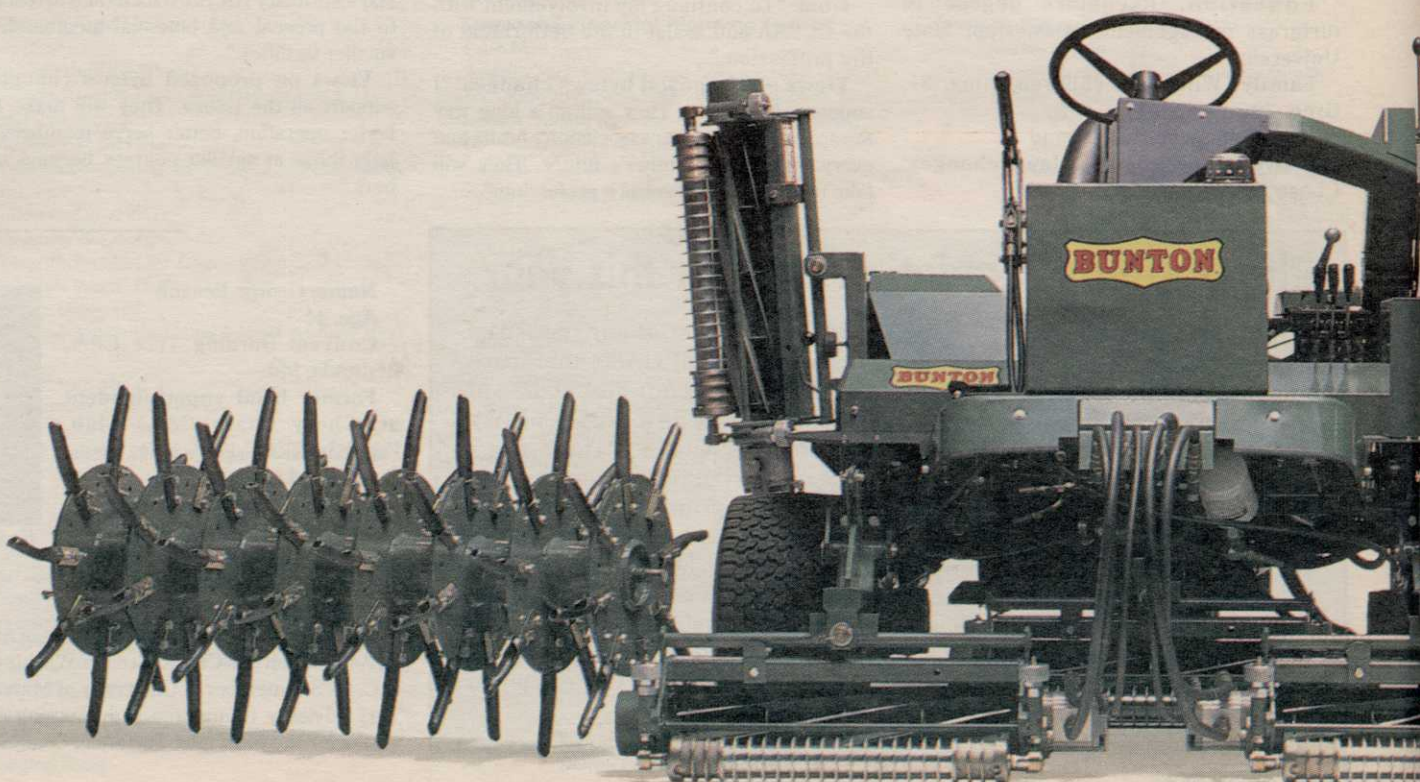
Staff ecologist Jean Mackay spends 90 to 100 percent of her time with golf courses, and naturalist Wendy Kuntz spends 50 percent of her time on the golf program, Dodson said.

"We're the only environmental conservation organization with a full-time golf course program," Dodson said.

Nancy Sadlon, environmental specialist for the U.S. Golf Association, which sponsors and funds the program, said her organization is excited about it and hopes it continues to grow. Of the more than 570 golf courses which are members, Florida and California lead the states, and the Northeast leads the regions.

The Canadian Golf Superintendents Association has shown interest in adopting the program in its country, and courses in Guam and Spain have joined. Sadlon said the USGA funded the program with a \$25,000 grant the first year and followed it the next two years with \$100,000 grants.

She hopes the Environmental Research Committee will approve a third-year funding and that the program will be self-sustaining after that year.



Past GCSAA Award Winners

President's Award for Environmental Leadership:

1993 — Audubon Society of NY
1990 — Cape Cod Study test courses: Falmouth CC, Hyannisport Club, Eastward Ho, Bass River GC

Past winners of the GCSAA's Old Tom Morris Award:

1993 — Dinah Shore
1992 — Tom Watson
1991 — William Campbell
1990 — Sherwood Moore
1989 — Chi Chi Rodriguez
1988 — Gene Sarazen
1987 — Robert Trent Jones Sr.
1986 — Patty Berg
1985 — Gerald Ford
1984 — Bob Hope
1983 — Arnold Palmer

Former Leo Feser Award winners:

1992 —
1991 — Ken Flisek
1990 — Gary Schindlerle
1989 — Ted Horton, Mary Medonis
1988 — Sherwood Moore
1987 — David E. Hassel
1986 — David C. Harmon
1985 — Theodore W. Woehrle
1984 — Jerry W. Redden
1983 — Gordon C. Witteveen
1982 — Louis E. Miller
1981 — Paul N. Voykin
1980 — Donald J. Pakkala
1979 — Oliver Miles
1978 — Dan Jones
1977 — James M. Hildebrand
1956 — Tom Dawson Jr.

Past winners of the GCSAA's Distinguished Service Award:

1993 — Dr. James B. Beard
Dr. Victor Gibeault
1992 — George Kozelnicky
C.E. Tate
1991 — Dr. Noel Jackson
W. Bruce Matthews
Dr. Eliot Roberts
1990 — William Bengeyfield
Dr. Thomas Watschke
1989 — James W. Brandt
Dr. C. Richard Skogley
1988 — Dr. Jack Butler
William B. Davis
Dr. Kenyon Payne
Eberhard Steiniger, CGCS
1987 — Dr. James R. Love
David S. Gourlay Sr.

1986 — Andrew Bertoni
John B. Steel
Howard Kaerwer
Chester Mendenhall
1985 — James L. Blackledge
William C. Campbell
Clifford A. Wagoner
1984 — Warren A. Bidwell
Keith Nisbet
1983 — James B. Moncrief
Dr. Joseph Troll
Dr. James R. Watson
1982 — Milton J. Bauman
Sherwood A. Moore
Alexander M. Radko
Ben O. Warren Jr.
1981 — Geoffrey S. Cornish
Dr. Ralph Engel
Hans C. Schmiesser
1980 — Manuel L. Francis
Dr. John Madison

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

Past presidents of GCSAA:

1992 — William Roberts
1991 — Stephen Cadenelli
1990 — Gerald Faubel
1989 — Dennis Lyon
1988 — John A. Segui
1987 — Donald Hearn
1986 — Riley L. Stottern
1985 — Eugene D. Baston
1984 — James W. Timmerman
1983 — Robert W. Osterman
1982 — James A. Wyllie
1981 — Michael R. Bavier
1980 — Melvin B. Lucas Jr.
1979 — Charles H. Tadge
1978 — George W. Cleaver
1977 — Theodore W. Woehrle
1976 — Richard W. Malpass
1975 — Palmer Maples Jr.
1974 — Charles G. Baskin
1973 — Clifford A. Wagoner
1972 — Robert V. Mitchell
1971 — Richard C. Blake
1970 — Norman W. Kramer
1969 — John J. Spodnik
1968 — James W. Brandt
1967 — Walter R. Boysen
1966 — Edward Roberts Jr.
1965 — L.R. Shields
1964 — David S. Moote
1963 — Roy W. Nelson
1962 — Sherwood A. Moore
1961 — L.E. Lambert
1960 — James E. Thomas
1959 — Elmer G. Border
1958 — Robert M. Williams
1957 — Paul E. Weiss Sr.
1956 — A. Ward Cornwell
1955 — William Beresford
1954 — Norman C. Johnson
1953 — Leonard J. Strong
1952 — Malcolm E. McLaren
1951 — William H. Johnson
1950 — Ray H. Gerber
1949 — Carl A. Bretzlaff
1948 — Chester Mendenhall
1946-47 — Marshall E. Farnham
1941-45 — Harold W. Stodola
1940 — John Gray
1939 — Frank W. Ermer
1938 — Joseph Ryan
1937 — John Quail
1936 — John Anderson
1935 — Fred A. Burkhardt
1934 — W.J. Sansom
1933 — John MacGregor
1926-32 — Colonel John Morley
(Note: Randy Nichols is running unopposed for the 1993 post.)

Gibeault and Beard honored for distinguished service

Show Time '93

Drs. Victor Gibeault of University of California-Riverside and James B. Beard, who retired last year from Texas A&M University, will receive the 1993 Distinguished Service Awards from the Golf Course Superintendents Association of America.

The awards will be presented at the Golf Course Conference and Show in Anaheim, Calif.

Gibeault, an Extension environmental horticulturalist at UCal-Riverside, said word of the award "was a surprise. It's always an honor when you get any honor. But that particular award — for university people who work with turf and golf course superintendents — is a very noted award and one that certainly I feel very honored in getting."

Among several areas of research at UCal-Riverside the last 20 years that have affected turf in general, and golf specifically, Gibeault said, are turfgrass breeding and water use.

Gibeault has worked with the late Dr. Vic Younger and others in developing species of turfgrasses for the California market, notably hybrid Bermudagrass and Younger's El Toro zoysiagrass.

"We've taken El Toro as a parent, evaluated offspring and developed two new grasses," Gibeault said — DeAnza and Victoria zoysiagrass. Plant material and improvement has been a cornerstone of our work."

Much work has involved water requirements of turf, the ability of plants materials to survive in less

than optimum conditions, strategies to use for those purposes.

Gibeault has served on the U.S. Golf Association's Turfgrass Research Committee since 1985, working to assist in funding

water-focused studies from plant breeding through cultural studies. He also develops and implements educational and applied research projects in turfgrass management.

Beard, who could not be reached for comment, has been a leading turfgrass researcher for many years and has been honored with the USGA Green Section Award and International Turfgrass Society's Distinguished Service Award, among others.

He has been a consultant and conference speaker while also teaching and researching for four years at Purdue, 14 years at Michigan State, and the past 17 years at Texas A&M.



Dr. Victor Gibeault

Anaheim the site of spec bid meeting

By PETER BLAIS

ANAHEIM, Calif. — Representatives from the national builders and architects associations will meet during the GCSAA show to start the process of standardizing bid schedules and specifications for course construction.

It's hoped the unofficial get-together will lead to a formal proposal on bid schedules during the architects' annual spring meeting. Specifications will take longer.

Experts say standardizing these administrative tools should make it easier for builders to determine what an architect wants and develop more accurate bids; architects to interpret bids from various builders; and developers to get the best quality product at the best possible price and know they are comparing, as the saying goes, apples to apples.

"We want to standardize as much of each job as possible, while leaving architects the artistic freedom to do what they feel should be done at a particular site," said Hartland, Mich., builder Paul Clute, a member of a Golf Course Builders Association of America committee working on these issues with the American Society of Golf Course Architects.

"Right now, a developer gets six to eight bids and he can't compare them. Standardizing as much as possible will make it easier to compare apples to apples when evaluating bids," added fellow committee member John MacDonald, a builder from

Continued on page 51

Now, The Only Hole That A Bunton Can't Maintain Is The 19th.

For years, Bunton greensmowers have consistently delivered a quality of cut that is an industry standard. But now, Bunton is aiming to make your entire golf course Bunton turf.

Bunton now offers over 30 pieces of machinery to fulfill all your golf course maintenance needs. Whether you need to mow greens, tees, fairways or roughs. No matter if you're cutting, aerating, spreading or seeding. Bunton has precisely the right machine for the job. And all are built to the same exacting standards as our acclaimed greensmowers.

See what kind of new equipment Bunton has brought to its golf maintenance line. For more information or a demonstration, contact your Bunton representative or call 502-966-0550.



4601 East Indian Trail, Louisville, Kentucky 40213

CIRCLE #114/BOOTH #2812



The bylaws: Time for a few changes?

Continued from page 1

tive. I'm not in favor of the board having the power to set dues, requiring a simple majority rather than the present two-thirds membership vote to change the bylaws, and adding field staff," Fearis said.

While the amendments would be "helpful," vice presidential nominee Gary Grigg said he disagreed with those believing the association would be in dire straits if some or all of the amendments were defeated.

SETTING DUES

Having the board set dues is a pocketbook issue. One need look no further than the recent national presidential race to see how people react to threats to their wallet.

Writing in September's *Golf Course Management*, Roberts defended taking power to raise dues out of the hands of membership and placing it with the board.

(Ed. note: Roberts requested a list of questions regarding the bylaw changes. They were provided. But Roberts said he would not to answer them.)

Members have traditionally supported proposed dues increases, the GCSAA president noted. But the time lag between when the extra revenue is needed and the annual meeting when members vote any increase can create problems, he said.

"During that delay, conditions change. Opportunities can be lost," explained Roberts in the *GCM*, article, adding that dues amount to just 22 percent of GCSAA revenues. The leadership already controls the other 78 percent generated through sources like trade shows and magazine advertising, he said.

Some members are concerned the board could institute increases to pay for programs or items they may feel are unnecessary. For example, Roberts has hinted at a \$40 to \$50 increase to pay for a nationwide field staffing program some feel should be initiated on a regional trial basis, if at all.

Others have questioned the need for an addition to the recently opened headquarters building in Lawrence, Kan., that was supposed to accommodate the organization into the foreseeable future. The costs of expanding GCSAA into the Asian market is another controversial issue.

"I would be concerned about these types of projects [headquarters expansion] becoming a normal occurrence if we had a board of directors that felt free to fund projects by increasing dues," wrote Bob Maibusch of Hinsdale (Ill.) Golf Club in a letter to the editor (see page 15).

Former (1981-82) GCSAA Presi-

dent Mike Bavier of Inverness Country Club in Palatine, Ill., headed the association when a similar amendment was defeated. "The bylaw change did not occur, and probably was for the better," he said. "Even if you trust people running the association at present, what about future boards."

Said Fearis: "I equate it to the power to vote for or against a tax increase. People like to have a voice in that. Some members feel dues increases are an item they should be able to do something about."

VOTING CHANGES

The proposed voting changes are also sure to stir debate at the Jan. 30 annual meeting.

The board is recommending

eliminating delegate voting and replacing it with a "one person, one vote" system. Currently, members can either vote directly at the election, give their vote to a chapter delegate, or vote by proxy. The proposed change would allow members to vote by mail or during the annual meeting at the GCSAA conference and show.

Roberts said delegates have done a good job in the past and served a valuable service when the technology was unavailable to poll each member directly.

But noting the findings of one Organizational Study Committee member who recommended the bylaw change, Roberts wrote "we have actually encouraged a de-

gree of non-participation through the delegate process, because members feel that someone else is taking care of the all-important election decisions."

While admitting the delegate system has shortcomings (i.e. occasional delegates fancying themselves as power brokers), opponents of the change argue most delegates have responsibly represented their constituents. Delegates are among the best informed and most interested members of local chapters, putting them in an excellent position to represent members who don't have the time or inclination to study issues and candidates, they say.

Said Maibusch: "Most of the

golf course superintendents, at least in this area, are not actively pursuing information on the candidates or proposed bylaw changes, and would not be inclined to take an interest in this information.

"I have had a number of individuals tell me they are confident that their voting delegates and local association directors are the most informed people to be making these decisions."

Countered Roberts, "I think that view [membership apathy] fails to reflect any fundamental understanding of what has characterized this profession for years, and that is that we do care about our vocation and can make up our

Continued on page 24



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Members disagree on easing entrance into GCSAA

BY PETER BLAIS

Another battle is brewing over the future membership of the GCSAA.

Members will vote on proposed bylaw amendments to change membership classification requirements and add membership classes, including non-superintendents, during January's annual meeting at the annual conference and show.

While most members say they would welcome newcomers, some feel GCSAA could begin to lose its identity as a superintendents association if too many non-superintendents join.

Membership committees have recommended opening the association to golf course staff members, technicians, owners, golf officials, regulators and others.

Those groups would benefit from the additional educational opportunities GCSAA can provide, association President Bill Roberts wrote in September's *Golf Course Management*.

Setting new membership classes and variable dues rates would also help attract superintendents from smaller, lower-budget clubs that are presently under-represented compared to higher-budget, private courses,

Roberts noted.

GCSAA would benefit from a larger membership in terms of added professionalism, extra dues and political clout.

"Numbers speak in Washington and elsewhere in the government," Roberts wrote.

Mike Bavier, head superintendent at Hinsdale (Ill.) Golf Club, said he is not opposed to opening the association to other professionals.

"I am reluctant to see the majority of our membership be something other than golf course superintendents because we are eager to increase our stature by

having a large membership and dues base," he wrote in a letter to the editor.

"If this is allowed to occur, it will only be a matter of time before these lesser members begin demanding more services and, inevitably, a voice in the management of what is also their association."

Palmer Maples Jr. of Summit Chase Country Club in Snellville, Ga., in the Georgia GCSA publication *Through the Green*, wrote: "The question is, are we going to stay a superintendent group or are we going to become a golf course maintenance association."

As a superintendent, I would like my dues to go for superintendent-type projects and education." Former GCSAA President (1971-72) Richard Blake added: "We should be a superintendents association. It is already open in many respects. There are seminars for mechanics and spray technicians, for instance. A lot of this [training for non-superintendents] is already handled on the local [regional chapter] level."

'It's more democratic to let members do it. Besides, they have always supported any increase requests in the past.'

— Richard Blake

Former president warns of power held by the few

BY PETER BLAIS

The last GCSAA president to be nominated and elected from the floor of the annual meeting has misgivings about the proposed bylaw changes.

"They concentrate power in the hands of too few people," said Richard Blake, who headed the organization in 1971-72.

The proposed amendment eliminating the delegate voting system in favor of a one-person-one-vote format would require members to mail in their votes for or be present at the annual meeting to elect officers or amend bylaws.

Since so few members attend the annual meeting, opponents argue, that would make it virtually impossible for someone to follow Blake's path of being nominated and elected from the floor.

Blake agrees.

"If members are dissatisfied [with their choices for officers] or they want to make changes, that should be their prerogative," Blake said.

"I prefer the delegate system. If they [individual members] don't want to go along with their delegates, members are still free to vote any way they want."

Blake said he opposes the amendment allowing the board of directors to set dues.

"It's more democratic to let members do it. Besides, they have always supported any increase requests in the past," he said.

And he favors keeping the two-thirds vote of the membership requirement to change a bylaw rather than the proposed amendment to a simple majority rules.

"More people have to be involved in the decision that way [with the two-thirds requirement]," he said.

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CIRCLE #115/BOOTH #1603

January 1993 23

Superintendents descend on Anaheim

Continued from page 1

This year, the GCSAA decided Dinah Shore was their woman. And the patron saint of the Ladies Professional Golfers Association will be at the Jan. 30 annual banquet to receive her award. So, too, will golfer Patty Berg. Berg received the award from Shore in 1986. This time Berg returns the favor to her old friend and will present the Old Tom plaque to Shore.

The annual banquet, which features a performance by the legendary Beach Boys, wraps up the eight-day event. The 64th annual conference and show kicks off the previous Saturday, Jan. 23, with two-day seminars and the 400-player annual golf tournament.

The Saturday-to-Saturday run is a departure from the normal weekday start and finish. Scheduling with the Anaheim Convention Center made the switch necessary.

The final 36 hours conflict with the PGA Merchandise Show in Orlando, Fla., a regrettable though unavoidable scheduling problem, according to show organizers.

A one-day computer and turf management seminar Sunday, Jan. 24 is followed by more one- and two-day sessions on Monday and Tuesday.

In response to superintendent requests for more information on golf course design, several well-known architects are leading a handful of the 60-plus seminars.

American Society of Golf Course Architect members Brian Silva and Jan Beljan discuss *Golf Course Restoration, Renovation and Construction Projects* the first Saturday and Sunday. Geoffrey Cornish and Robert Muir Graves give their critically acclaimed *Golf Course Design Principles* seminar Monday and Tuesday. *Pete and Alice Dye on Golf Course Design* is the title of Tuesday's one-day session by two of the industry's top names.

Other topics during the first four days of seminars range from water quality and wildlife habitat conservation

to employee safety training and managerial productivity.

Hall of Fame catcher Johnny Bench will be the keynote speaker at Tuesday night's Opening Session. Organizers are excited about some of the speakers, especially on the environment, on tap for the six concurrent education sessions scheduled for Wednesday.

Sessions by allied associations round out the conference. Among them are the Golf Course Builders Association of America on Thursday, American Society of Golf Course Architects on Friday, and United States Golf Association Green Section on Saturday.

Wednesday is Distributor Preview Day for the trade show, providing an opportunity for exhibitors to meet exclusively with current and potential distributors and dealers. The trade show officially opens Thursday, Jan. 28, running from 9 a.m. to 5 p.m. Thursday and Friday, and 9 a.m. to 1 p.m. Saturday. The 175,000-square-foot show floor will house a record 600-plus exhibitors.

The annual meeting on the closing Saturday morning should be one of the most spirited affairs in recent memory, with heated debate expected on the proposed bylaw

changes. The election of Randy Nichols of Cherokee Town & Country Club in Dunwoody, Ga., as the new GCSAA president will highlight the election of officers.

The conference and show should draw 16,000 to 17,000 domestic and foreign visitors, which could surpass the record attendance set three years ago in Orlando. The recession held down last year's numbers in New Orleans, organizers said. Desert Storm and a souring economy did the same two years ago in Las Vegas, they added.

But with an improving economy, no military engagements threatening foreign travel and the proximity of this year's event to a major metropolitan area like Los Angeles, attendance is likely to improve.

Bylaw changes?

Continued from page 22

own minds."

If most members voted by mail, there would be less chance to discuss issues at candidate briefings, wrote superintendent Palmer Maples Jr. of Summit Chase Country Club in Snellville, Ga., in the Georgia GCSA publication *Through the Green*.

With mail-in ballots, many people would vote for directors on the basis of name recognition alone, giving candidates from larger chapters with more financial resources an advantage over candidates from smaller ones, Bavier said. It would also eliminate any realistic chance for a person nominated from the floor, he added.

The "if-it-ain't-broke-don't-fix-it" attitude extends to those opposing the proposed change from a two-thirds to simple majority vote to amend bylaws. Intense lobbying by a vocal minority could sway half the eligible voters, putting too much power in the hands of a few, they say.

The current two-thirds rule forces an amendment to stand on its own merits, Bavier said. Directors must vigorously sell any change to members to gain approval, he added.

Amendment supporters contend current bylaws mean a one-third minority can override the desires of two-thirds of the members.

"A two-thirds requirement is overkill," Roberts wrote.

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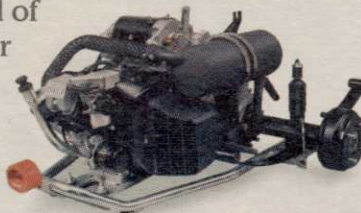
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SOD INTERNSHIPS AVAILABLE

ROLLING MEADOWS, Ill. — Students seeking "experience through employment" within the turfgrass sod production industry again may use resources of the American Sod Producers Association. ASPA has created a program whereby students can expand their education by putting it to practical use. Internship applications may be obtained by contacting ASPA at 1855-A Hicks Road, Rolling Meadows, Ill. 60008. Phone 708-705-9898.

RUTGERS ALUMNI HONOR HURLEY

NEW BRUNSWICK, N.J. — Dr. Richard Hurley, vice president and director of research for Lofts Seed, recently received the Outstanding Achievement Award from the Rutgers Turfgrass Alumni Association. Hurley credits professional golfer Bruce Crampton for early inspiration to a career in the turfgrass industry. Said Hurley, "While attending college in Florida, I was fortunate enough to caddy for Crampton, who fed my interest in golf and the courses where the game is played." Hurley is president of the New Jersey Turfgrass Association.



Richard Hurley

STUDY OF DEATHS UNDERTAKEN

An independent scientific study of deaths of superintendents is being underwritten by the Golf Course Superintendents Association of America. The study is designed to provide basic evidence about any links between long-term pesticide exposure and certain cancers and illnesses identified as pesticide-related. Researchers will first thoroughly review scientific literature dealing with human exposure to pesticides used on golf courses. A team of epidemiologists will then perform a statistical mortality study of GCSAA members who have died since 1970. The GCSAA hopes to choose researchers by late January.

ECOLOGY, MANAGEMENT TOPICS

BLACKSBURG, Va. — First of two sessions in turfgrass ecology and management is due Jan. 4-8, at Virginia Tech's Donaldson Brown Center for Continuing Education. The course is designed to provide basic information to new turfgrass managers, and to provide experienced turf managers opportunity to update expertise. Thirteen faculty members from turfgrass-related disciplines will provide 36 lecture and laboratory contact hours of instruction. David R. Chalmers, extension agronomist—turf, Virginia Tech, will direct the program. A second course is due here Jan. 25-29.

GOLF COURSE NEWS

No longer voodoo science, tailor-made composts coming

By MARK LESLIE

Having conquered the nursery industry, scientists researching the disease-suppressive capabilities of compost anticipate barrier-breaking improvements in the golf and landscape industries in the near future.

"This is no longer voodoo, but real science," said Dr. Harry A.J. Hoitink, professor of plant pathology in the environmental graduate studies program at Ohio State University.

Hoitink, who has been researching solid-waste compost and its disease-suppressive capabilities since 1972, predicts that "tailor-made composts are coming."

Specifically, use of yard-trimming composts in top dressing and in root-zone mixes in golf course construction will bring wide-ranging improvements in turfgrass maintenance, he said.

"The net effect I project in the next decade," Hoitink said, "will probably see a gradual phasing out of fungicides used to control root disease."

"We may see decreased insect problems, also, although much of that remains to be documented. Since stress aggravates insect problems, and compost alleviates stress in plants, it will help in this area as well."

A prize student of Hoitink's from 1978-82, Cornell University Associate Professor of Plant Pathology Eric Nelson agrees that composts will "dramatically reduce" fungicide use.

'I project in the next decade we will probably see a gradual phasing out of fungicides used to control root disease.'

— Dr. Harry A.J. Hoitink
Ohio State University

"In some of our monitoring studies on golf courses in the Rochester [N.Y.] area, over a three-year period of strictly using compost on fairways, they reduced Pythium fungicide applications by 89 percent," Nelson said. "We're still pulling together data on fungicide use at other courses. I predict you'll find similar reductions elsewhere..."

"Presumably, we would be able to reduce insecticide use as well, particularly if these composts possess insecticidal properties."

To that end, Cornell Professors of Entomology Mike Villani and Roxanne Broadway are searching for insecticidal compounds in composts and have been able to isolate proteins with insecticidal activity.

"We established 10 to 15 years ago that there is not a soil-borne disease in plants that we cannot control with compost," Hoitink said. "If we look at undisturbed natural ecosystems, such as hard-

Continued on page 33



Tough challenges threaten golf

By MARK LESLIE

On the one hand, golf is too slow, too expensive, too elaborate and too hard. On the other hand, the outlook for its future is promising, according to a panel of North American experts.

Speaking at the 44th Canadian Turfgrass Conference and Trade Show in Halifax, Nova Scotia, in December, panelists agreed the industry must be cohesive and superintendents far-sighted in addressing environmental and other issues vital to the game and their jobs.

"The future looks bright. But we must warn ourselves not to become complacent," said Jim Snow, national director of the U.S. Golf Association Green Section. "We can't expect golf to grow by hundreds of courses per year into the future without

Continued on page 27

Tour of Duty

HAROLD VAUBEL
LaCosta Country Club
Carlsbad, Calif.

Infiniti Tournament of Champions
Jan. 7-10, NBC

Harold Vaubel, 40, has been head superintendent at LaCosta for three years. He came to Carlsbad from the TPC at Starr Pass in Arizona, where he helped build the course and served as head super. A native of Peoria, Ill., Vaubel is a graduate of the University of Arizona in Tucson.



Things to look for:

"From an agronomical standpoint, to get ready for the Tournament of Champions, we've been rebuilding all our greens to USGA specifications. After this year, we'll only have four left [to renovate]. The ones

that haven't been rebuilt are all TV holes: 11, 14, 15 and 18."

Made-for-TV preparations: "Basically, most of what we do is a tremendous amount of landscaping. We try to put a bunch of flowering plants and poinsettias behind the tee boxes. I feel this highlights the player a lot better. It makes him stand out better on television."

"We also triplex our fairways specially for the tournament. The rest of the year we use a five-gang, but I think the triplex makes the fairways look more dramatic."

Editor's note: "Tour of Duty" will be a regular feature this year in Golf Course News. It is designed to celebrate the PGA Tour's unsung, underpublicized hero: The superintendent.

GERALD YOZA
Waialae Country Club
Honolulu, Haw.

United Airlines Hawaiian Open
Jan. 14-17, Turner

Gerald Yoza, 40, has spent all of his 16-year turf career at Waialae, "Starting out in the traps, just like everyone else," he recalls. He was named head superintendent two years ago. A native of Oahu, he is also a graduate of the University of Hawaii.

Things to look for: "We've been through a renovation with Desmond Muirhead [and Ed Connors of Golfers] since last year's tournament. We've added some mounding and quite a few strategic traps. Desmond is an excellent guy to work with. He's got a great eye... A lot has



happened since last year. We've had a flash flood, a hurricane, a wind storm and a renovation — all in the last 12-13 months. It's been an unusual year. Busy."

Made-for-TV preparations:

"Because this is a Bermuda course, we change the mowing height in the rough. If we kept a tournament rough all year around, we'd catch it from the membership... We add one more cutting height for the tournament, an intermediate cut at 1-1/2 inches. We keep the fairways at 7/16ths all year."

TIGHE SHIELDS
TPC of Scottsdale
Scottsdale, Ariz.
Phoenix Open
Jan. 28-31, CBS

Tighe Shields, 42, has been head superintendent at the 36-hole TPC of Scottsdale since 1989. A native of Indiana, he grew up in Arizona and matriculated to Arizona State University in Tempe. Before coming to the TPC, he was head super at Arizona Country Club in downtown Phoenix from 1975-88.

Things to look for:

"Being in the belt we're in, we oversee in October and early November to get the golf course reestablished very quickly. We have to be tournament-ready in early January, which is our coldest period of the year. We have to be in the condition you might normally expect in March or April, which is tough for us."

Made-for-TV preparations: "We generally have TV only on the back nine, so we oversee them first and apply an extremely concentrated fertilizer program... We also spray the fairways — four times, wall-to-wall — with liquid applications of iron to get the deepest, darkest green we can. Part of our look is to have extremely dark green playing areas while keeping the bunker outlines a golden yellow. We do this by letting the bunker outlines go dormant, and we spray them with Diquat. We think this better distinguishes the bunker areas on TV — and the players say they like it."



Environment minister: Cooperation 'a must'

By MARK LESLIE

HALIFAX, Nova Scotia, Canada — In a move toward conciliation, Nova Scotia's minister of the environment said provincial departments of environment must work with, not against, the golf industry.

Speaking at the 44th Canadian Turfgrass Conference and Trade Show here, Terrance Donahue said: "Departments of the environment have traditionally been seen by many as being rather re-

strictive to ongoing development and as a curtailment of expansion plans and of 'the getting on with everyday business.'

"I don't think a department of environment must take that approach at all, and, on the contrary... there simply has to be an arrangement and understanding between [them] and your industry that we can, we must work together to ensure as fine a product as we can present and at the same time agree on basic business practices and fu-

ture development."

As a former minister of tourism, Donahue said he is very aware that golf in Nova Scotia and across the country is "a vehicle for tremendous growth in future development."

"The statistics and projections all tell us that the golf industry... will simply continue to explode in interest and expansion in the decades ahead. I would say, generally, that — though that is not always readily apparent — gov-

ernments at all levels do, in fact, seek to encourage further opportunity for golf and, hence, your profession."

Donahue mentioned "a move, an approach, a set of concepts" taking hold across North America whereby all industries build in environmental safeguards as necessary and, at the same time, "we encourage legitimate development and expansion. The buzzword heading is that we want to practice sustain-



able economic development."

He noted that golf courses must increasingly compete with "other uses that seek to control our natural resources, be they the local water supplies, fish habitat areas, or... valuable tracts of land which you and I would want to convert to and expand as golf courses."

The concepts of sustainable economic development, Donahue said, offers golf a great deal, including:

- "Delivering new systems for managing common environmental issues associated with your golf courses, be it the water-allocation question or pesticides and herbicide use, or a whole range of management issues";

- Seeking out "common environmental policies and practices that you can adopt locally, regionally and nationwide. Something that I know your respective associations are already examining";

- Looking for new innovative techniques of management that revolve around and reduce the use of resources pesticides and herbicides.

- Ultimately, reducing costs for the industry, and "solid business opportunities for those who seek to be in the forefront of developing those new environmentally friendly technologies and products."

He said many superintendents are eager to work with his department "to demonstrate that the sustainable development approach to managing resources will have real tangible effects for them and the industry as a whole."

"We hope... to accomplish an industry-wide familiarity and confidence with proven practices for integrating environmental concerns into the very fabric of golf course management. And in the very immediate future we wish to prove that sound environmental practices will have a direct payoff, not only for the environment, but for the industry's public image," Donahue said.

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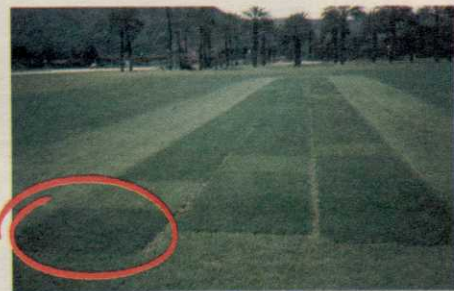
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Dufresne new CGSA president

Mark Dufresne, superintendent at Beaconsfield Golf and Country Club in Ile Perrot, Quebec, has assumed the presidency of the Canadian Golf Superintendents Association.



Mark Dufresne

Dufresne succeeds Paul White of Mississauga (Ontario) Golf and Country Club.

GOLF COURSE NEWS

Golf's future

Continued from page 25

addressing certain pitfalls.

"Golf needs to be faster, less expensive, less elaborate and more fun."

Snow found support from fellow panelists, long-time Canadian Open chairman Dick Grimm, Canada Golf Superintendents Association President Paul White, Golf Course Superintendents Association of America President William Roberts, and Canadian PGA pro Lindon Garron.

Roberts, of Lochmoor Club in Grosse Point Woods, Mich., banked his optimism on such demographics as increased leisure time, a growing population of senior citizens with more time on their hands, golf's exposure on television, and the fact that the game provides an excellent opportunity for business and social interaction as well as competition at various levels.

Yet, he cautioned that superintendents and managers who learn to deal with this changing populace will do best.

Grimm, a former president and governor of the Royal Canadian Golf Association since 1969, said:

• Two top priorities in the game are slow play and the types of grass being developed to "make your [superintendents'] jobs easier and keep costs down."

• The two major challenges are affordability and accessibility.

• "The single most important factor to our future is attracting new players, particularly juniors, to the game. There's no lack of information for kids, but getting them on the golf course is tough... If we lose those kids, we're not going to get them back. They'll have found something else to do. We must make sure the right kind of courses, at the right time, price and place, are there for them to enjoy."

He told the superintendents: "I think you will be pros when you do your job the way it should be done and not the way the very well-meaning six- to 10-handicappers on the green committees believe."

Golf fees, Grimm said, "threaten to strangle the golden goose. These [pricing] trends must level off soon."

White, of Mississauga (Ontario) Golf and Country Club, predicted "a tremendous future in the golf profession, pointing to such specifics as its addition to the Olympic venue, continued spending by Toronto area golf courses on reconstruction, and a new golf dome being built in Mississauga.

"The golfer is an individual who enjoys the game so much that a recession will not stop his golfing," White said. "Golf courses have survived wars and recessions, always meeting the needs of superintendents."

The GCSAA's Roberts said he feels massive changes in the industry mean more and better-paying jobs. Saying that three-quarters of the labor force will need job retraining by the turn of the century, he said, "Superintendents continue to increase their education through association" and other activities.

"Sometimes the effort to keep current can seem overwhelming," Roberts said. "We have to make sure ... assistant superintendents, equipment mechanics, horticulturalists, arborists, and other staff members also benefit from continuing education in their areas of expertise.

"Advances in information technology will affect not only how we continue our education but also how we do our daily work. We deal with large volumes of information—weather data, pest monitoring and control records, equipment purchases and maintenance records, inventories, capital and maintenance

'The industry will see coalitions forged between business associations and others...'

— William Roberts

'Golf courses have survived wars and recessions, always meeting the needs of superintendents.'

— Paul White



budgets, payroll and personnel records, material safety data sheets, hazard communication training records, and so on.

Roberts added: "Most superintendents who use computers today—and that is a minority, frankly—are using them for irrigation management or for word processing. We certainly expect this to change over the next decade... More superintendents will feel the need to embrace the computer age, simply to cope with the sheer volume of information we have to deal with on a day-to-day basis.

"We, as superintendents, have prime accountability for the environmental challenges that face us," Roberts said. "Golf's role in the future in the environmental arena will include developing an increased regulatory awareness. It has a responsibility to help communicate environmental impacts to players and anybody else involved in the game. It needs to insist that superintendents get current with regulations and ... achieve compliance, particularly through education... And golf needs to support superintendents' requests for research funding."

He predicted that the industry will see coalitions forged between business associations and others, and "this will offer great opportunities for state and local chapters."

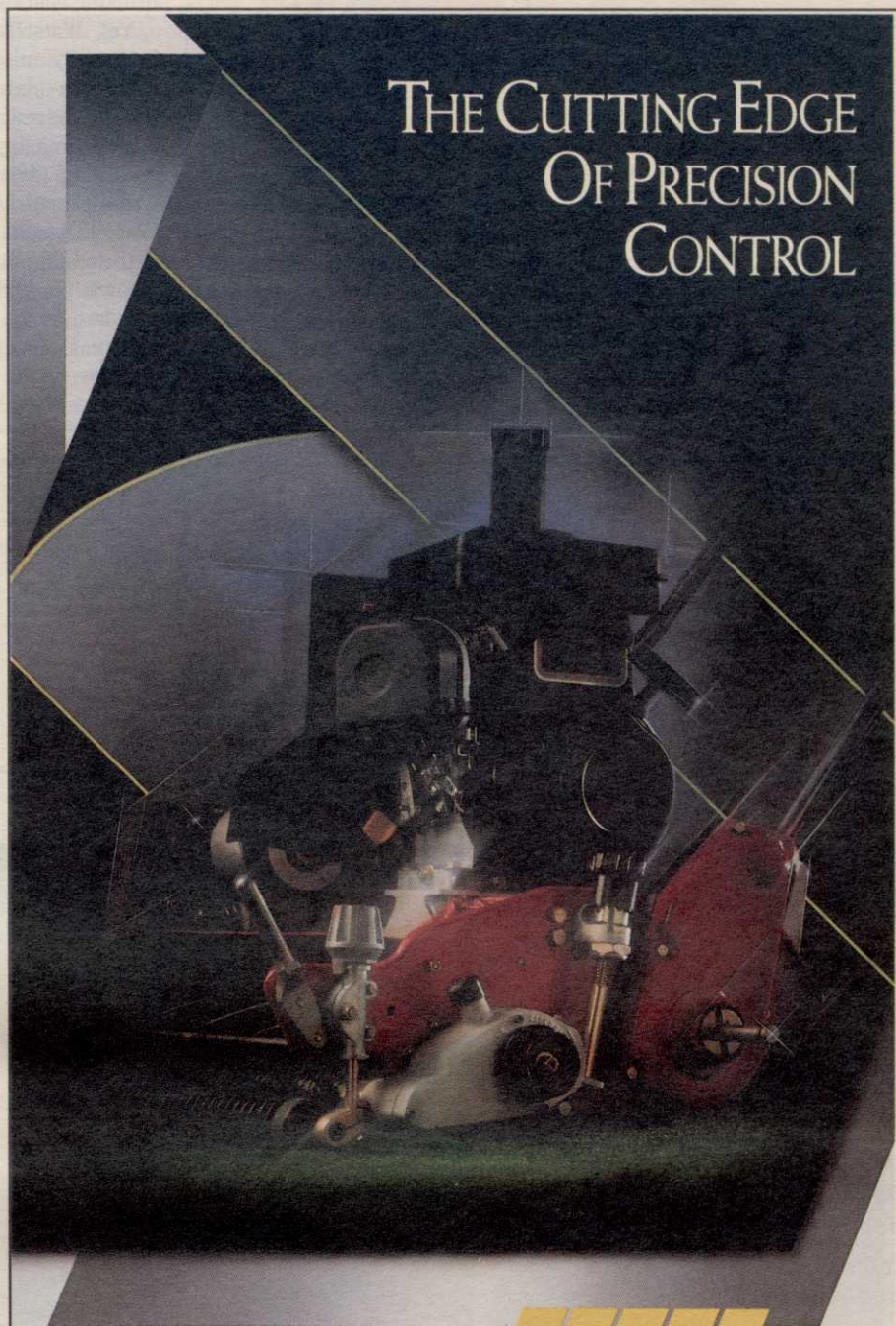
Garron, an Atlantic PGA member and a member of the PGA Canadian National Education Committee, alluded to such an interaction, saying: "We can make or break each other. You have to keep the course in

shape. We have to deal with the golfers.

"The future of golf in general depends on the relationship of club pros and

superintendents. Hopefully, we'll get together and see that we're all heading in the right direction."

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Watschke calls for involvement

By MARK LESLIE

HALIFAX, Nova Scotia, Canada — Declaring that scientific studies show the cleansing effects of turfgrass on chemical applications, Dr. Thomas Watschke told Canadian superintendents to be

Canadian Notebook

their golf courses' ambassadors.

His call to action was advanced by Canadian Superintendent of the



Year Thom Charters during the 44th Canadian Turfgrass Conference and Trade Show here.

Watschke, a Pennsylvania State University professor, quoted findings from runoff and leachate studies which illustrate that even under major flood conditions,

chemicals applied to mature turfgrass don't reach drinking water in amounts even close to public drinking water standard.

Yet, Watschke said the public has many misconceptions; and Charters later added that "politicians react to perceptions."

"It's amazing the calls I get regarding phosphorus getting in water from turfgrass applications," Watschke said. "Never have we detected any phosphorus above the 10 parts per billion drinking water standard."

He said phosphorus simply does not move in the soil.

In fact, Watschke suggested that

a major practical application of the Penn State findings is managing stormwater runoff.

"We have an opportunity to get together with the designers and engineers of the entire [golf development] complex, and the course architects," he said, "and ask how to make the course not only the focal point for recreational and property values but for ecological and environmental stability."

"Can we take the stormwater ... coming off of the parking lot at the clubhouse and down the entrance road — which is a polluter — and get it on the course where there is

A golf course is 'part of the solution. Be its ambassador.'



— Dr. Tom Watschke

an opportunity for biological interaction?"

This is a strong case for the golf industry in obtaining development permits, he said, adding: "A golf course is a wetland itself, a grass buffer strip itself, an infiltrating conveyance itself. It's not part of the problem. It's part of the solution. Be its ambassador."

CHARTERS: TAKE THE CHALLENGE

The superintendent at Weston Golf and Country Club in Toronto and a director of Green Care Horticultural Association, Charters recommended aggressive planning groundskeeping chores ranging from recycling to water use.

"The gloves are off when it comes to environmental impact," he said.

Saying that instead of simply believing their clubs won't spend the necessary money to make environmental changes, Charters said one thing should change superintendents' minds about asking — liability. Directors may be swayed by laws that hold officials of companies liable for wrongful practices of their businesses, he said.

"We have to delegate which employee is responsible for what, document it and cover ourselves... The payback? First and foremost, you cover yourself from lawsuits," Charters said.

He suggested superintendents tell their boards "they can't handle a huge cleanup bill," and recommend they spend a smaller amount now to avoid the far greater expense in the future.

Some Charters-isms:

- "It's not the environmental issues that scare us. It's change."

- "There's been a 'woe-is-me attitude' [among superintendents] regarding environmental issues."

- "The same pressures of big business apply to us. Our [club] members are seeing this in their workplaces. We should not expect to be immune."

- "Calling environmentalists 'whackos' or absurdly downplaying pesticide use will not pacify the environmentalists."

- "Don't be flippant. Yes, chemicals are safe. But, yes, there are risks. There are risks with using salt. Toxicity is related to dosage."

- "We have to focus strongly on cultural practices. Many different tools are available. It costs money up front for capital purchase, but it saves money in better, healthier turf down the road."

- "Irrigation technology has advanced in leaps and bounds. We can deliver water a lot more cheaply. My directors OK'd a new irrigation system (by a 72-percent vote) because of the idea water may not be available in the future."

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Superintendent tells tales of consultants causing firings

Use of agronomic consultants was the center of a controversy during one panel session at the Canadian Turfgrass Conference and Trade Show.

Superintendent Randy Scott of Blainville, Quebec, said his first concern is consultants and contract maintenance, adding, "I've seen consultants take maintenance jobs at four golf courses."

He had always thought groundskeeping was "part of a fraternity." But, in three of those four cases, the consultant hired the fired superintendent — at a lower wage, he said.

"The consultant borrowed equipment

from the four golf courses. You never knew who was using the equipment or paying for the repairs," Svcott said. "The superintendent/consultant is usually working to get jobs for himself."

Although Scott recommended a club spend money to further its superintendent's education rather than hire a consultant, others on his panel said Scott's specific cases are rare.

Teri Yamada, who administers the Royal Canadian Golf Association Green Section, said: "There are instances I've been called in and quickly got the feeling I'm the hired gun [to get the superintendent fired]. You do a

walkabout of the course, give the board of directors an agronomy lesson, explain the problem and why the superintendent's been requesting an irrigation system the last X number of years... Most superintendents use consultants and get confirmation they are right [about course conditions]."

Jim Wyllie, a past president of the Canadian GSA and now an agronomy consultant, said although the word 'consultant' is "most hated and feared ... I use consultants personally — for drainage, seeds and other expertise."

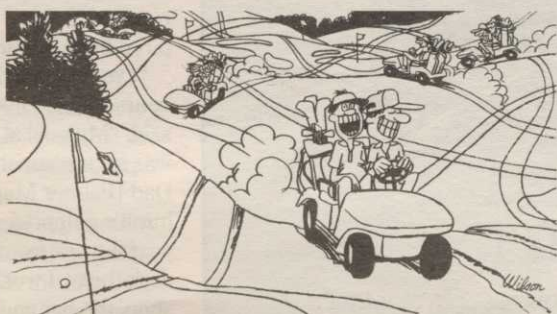
The consultant's role, he told superintendents, "is to work with you and



make things work for you. Let him take the heat for you."

"The animosity that precedes me is far and away [worth] the rewards of the final results of working together," Wyllie said.

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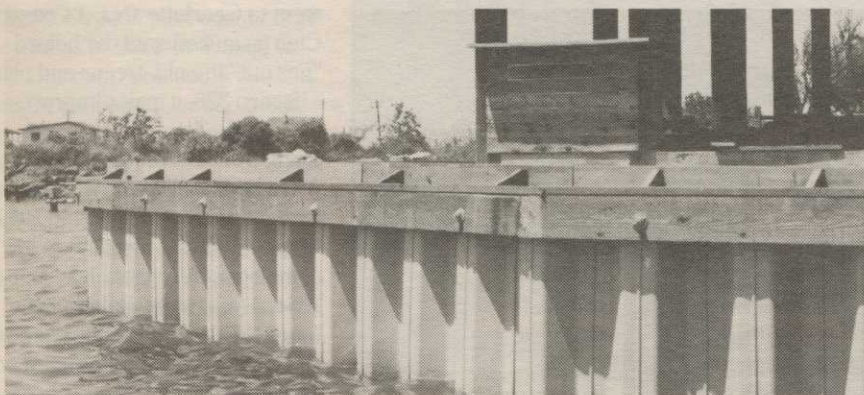
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VT 12

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SUPER FOCUS



Palmer Maples

Maples' life-long journey a family affair

By MARK LESLIE

His list of credentials is long and illustrious. But you'd never know it by speaking to the man.

Palmer Maples Jr. loves to simply work the turf, perfecting playing conditions at Summit Chase Country Club in Snellville, Ga.

"The job still holds excitement to me because no matter what level you reach, there's always another step up. It could be your time management of your crew,

or the training you give them. Even though you don't have more money or equipment, it's the use of the money and men — that's the challenge: to get the most and the best course for the members," Maples said.

Like others in his famous golfing family, Maples' achievements and honors are many and varied.

• A 1958 graduate of the University of Georgia, he worked during his undergraduate years with Dr. Glen Burton, who developed

See related story, p. 41

Tifgreen 328, 127 and 419 Bermudagrasses at Abraham Baldwin Agriculture College in Tifton, Ga., and Dr. Marvin Ferguson, who operated experimental plots at Texas A&M.

• He was one of the country's first 10 certified golf course superintendents.

• Georgia GCSA named him 1971 Superintendent of the Year.

• He served on the U.S. Golf Association Green Section Committee for 15 years.

• He was elected to the Golf Course Superintendents Association of America board of directors in 1970 and served as secretary/treasurer and vice president.

• In 1975 he became the first Southern-born superintendent to be elected GCSAA president.

• He was the GCSAA director of education from 1976-1981.

• Last January the Georgia Golf Hall of Fame presented him an Award of Appreciation for his contributions to the golf industry and being "a role model for aspiring superintendents."

The 60-year-old Maples may have to build a new wall to hang his citations, but he long ago reached the goal to which he aspired from the time he was a teen.

"I've been working on golf courses since I was 12," Maples said. "My goal at the age of 14 was to be a superintendent. I saw Dad [Palmer Maples Sr., Pinehurst's golf professional for many years] work from light-thirty to dark-thirty. I worked in the golf shop, the bar and grill, everywhere, and wanted more to work on the course than behind the counter.

"I liked being outside, working the soil, seeing it grow, working on the grass, riding the mowers, learning how to fix them."

When his family moved from Pinehurst and returned to visit his great-uncle Frank Maples, Pinehurst's superintendent for 48 years, Palmer would split his time working on the course and his uncle's farm.

Deciding at an early age what he would do with his life was a "tremendous advantage," Maples said, "because I had a goal and knew what I needed to learn."

Tutoring under Burton and Ferguson gave Maples the knowledge he needed so that when he went to Charlotte (N.C.) Country Club as an assistant, he helped "gas out" the old greens and plant Tifgreen 328, a major improvement of the late-1950s — "like going from Bermuda to bent."

Named Charlotte CC's superintendent upon graduating in 1959, Maples oversaw installation of a complete new irrigation system in 1964. A year later, Robert Trent Jones Sr. changed 15 greens and tees and fairway bunkering to prepare for planting bentgrass and getting the course ready to host the U.S. Amateur championship.

Maples left Charlotte CC in December 1969, worked seven years at The Standard Club in Atlanta, took charge as GCSAA director of education for nearly five years, and joined Summit Chase in 1981.

"One thing has been a basic for all the good things that have happened to me," he said. "That is to trust in the Lord... He always works things out."

Continued on next page

BELIEVE IT OR NOT

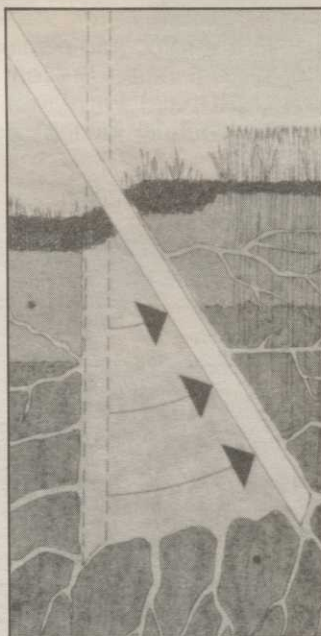
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Where They're Going



Jack Archer, the man behind the greens at Marcus Pointe Golf Club in Pensacola, Fla., has accepted the head superintendent's position at TimberCreek, a residential golf community under construction in

Baldwin County, Ala. Ground was broken at TimberCreek in May 1992, and the 18-hole course is scheduled to open in the fall of 1993. "They're taking their time and trying not to rush the construction," Archer said. "It's going to be a great facility and I'm looking forward to getting in on the project early."

When it comes to changing scenery, **John Farley** doesn't mess around. "I'm going to Guam," he writes. Farley recently left Bidwell Park Golf Course, an 18-hole facility in Chico, Calif., for Guam's Leo Palace Country Club, where he will be assistant superintendent.

Russ Krok replaced Farley as head superintendent at Bidwell Park.

Gary Grigg, a member of the Golf Course Superintendents Association of America board of directors, is now at Naples (Fla.) National Golf Club. Grigg was formerly superintendent at Genoa Lakes Golf Club in Genoa, Nev.

Darren J. Davis has been named superintendent at the Olde Florida Golf Club in Naples, Fla. Davis, a Penn State grad, had previously been assistant superintendent at The Loxahatchee Club in Jupiter,

Fla., and a spray technician at Augusta National and Golden Eagle Country Club in Tallahassee. Olde Florida, a Rees Jones design, is scheduled to open for play in mid-1993.

Personnel changes in the state of Georgia are coming fast and furious. **Michael Hammonds** has joined Newnan Country Club in Newnan under head superintendent



Darren Davis

Jim Miller.

Meanwhile, **Andy Troutner** has been named assistant superintendent under **Steven Sellen** at River's Edge Golf Course in Fayetteville.

Finally, **Matt Jones**, head super at the new Stone Creek Golf Club in Valdosta, has hired two new assistants, **Bryan Griffin** and **Ivey Dyal**.

Drop us a line! — We're not kidding! *Golf Course News* wants to know where your careers have taken you. If you're changing jobs, send the details (and maybe a photo) to *Golf Course News*, P.O. Box 997, Yarmouth, ME 04096.

Palmer Maples

Continued from previous page

Over that time, he has seen immense changes in the expertise of superintendents and the tools at their disposal.

He particularly pointed to improved chemicals, an array of much-advanced machinery, and a wide selection of grasses that are more tolerant to drought, heat, cold and wear.

"The education of superintendents has grown a lot," he said. "When I came in in the late '50s, maybe one-third had a college education. Through the '60s and '70s more universities started offering training. Today, maybe four-fifths have an education."

The availability of chemicals, he said, has had the greatest impact "raising the level of maintenance at every course."

"We used to have 2,4-D for weed control. That was all," he said. "But, now you have all the post- and pre-emergent chemicals, and you can just about select any one particular grass you'd like to clean out of another. One of the improvements that brought bentgrass to the South was controlling the diseases."

Advancement of equipment, particularly the riding greensmower, was another breakthrough, Palmer said.

Suddenly, one man could cut all the greens in the time it used to take four men. You could use less men on the course, or use those men for additional maintenance procedures.

"We have many, many more tools at our disposal."

Maples had two suggestions for would-be superintendents:

- Know as much about how the turfgrass plant grows as you can.
- Have patience — with people, with equipment, with the organization you're working for.

"The superintendent has to realize that he's working with nature. He has to grow it. He can't go out, put up 2-by-4s and sheet rock and paint it. He has to put seed in the ground, have it come up, mow it, treat it tenderly.

"And in due time it will be a good turf to play golf on. For the owner who says, 'Let's get that grass out there now, we want to open now,' you're going to have to have patience."

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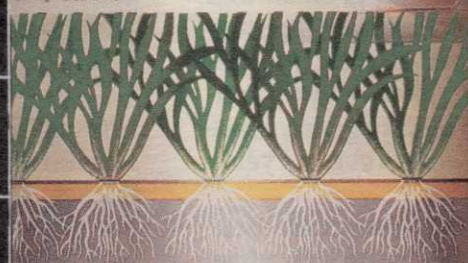
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HERBICIDE

Nutrient release, top dressing impact on research palette

By MARK LESLIE

At Ohio State University, where Dr. Harry A.J. Hoitink 20 years ago started his research on solid-waste compost in disease suppression, volumes of uncovered secrets of the earth will help people who work the soil for future generations.

Hoitink has kept an average of six people, from students to visiting scientists, busy for 12 hours a day, five and one-half days a week, 11 months a year since 1972. That translates into 380,160 manhours of research—the equivalent of one

person working around the clock for 43 years.

So what could possibly remain to be done, and who is doing it?

"Ten to 15 laboratories worldwide are researching this," Hoitink said. "It is exploding rapidly. It is out of the lag phase and into the log phase. There are two reasons for this: Composts are more widely available. And, in field agriculture, they are starting to find the same results as in nurseries."

Hoitink said that using this research, "instead of making



Dr. Harry Hoitink

compost for the nursery industry began in 1976. Eric Nelson, formerly Hoitink's student and now a Cornell University associate professor, finished the work in 1982.

mushrooms on compost, we will grow microorganisms that kill plant pathogens."

But it will take time. His research into inoculating

Hoitink said his research in the next five years will target:

- predictability of the release of nutrients that support the activity of biocontrol agents; and
- the long-term impact of top dressings with compost on the physical properties of the soil related to drainage, aeration and the retention and infiltration of water—which is being investigated by Dr. Ed McCoy of OSU, in cooperation with Kurtz Bros. of Cleveland.

McCoy has performed basic research on peat for tees and greens

for about six years. He has turned his attention to compost.

"As he develops that technology, compost will eventually find a permanent place in the preparation of tees, greens and top dressing," Hoitink said.

Hoitink said that adding compost helps suppress disease:

- By improving competition for organic nutrients and energy between the pathogen and beneficial microorganisms in the soil. "As long as the beneficial organisms win the battle, pathogens cannot infect roots," he said.

- By antibiosis, or antibiotic production, which also requires energy availability in slow-release form (compost or decaying plant organic matter, but not so decayed that it has become humic substances only).

While these two mechanisms cover such pathogens as *Pythium* species and some *Fusaria*, which cause different turf diseases, they do not control *Rhizoctonia*.

"We have these large pathogens [*Rhizoctonia*] that are not controlled by competition," Hoitink said. "They harbor so much energy that they can germinate on their own any time, and they respond to germinating seeds probably by volatiles given off. *Rhizoctonia* may grow up to an inch a day until it reaches the plant and kills it."

So, *Rhizoctonia*, and the diseases it propagates, are a major target for scientists.

"Only those composts that have been made in the natural forests, and have cured for a long time, will suppress *Rhizoctonia*," Hoitink said. "As soon as you bring it out of the natural forest... you have a narrower group of species and less diversity, and the chances of getting the goodies in there that can kill *Rhizoctonia* and a few other pathogens becomes smaller."

Headed: "We can grow beneficials on compost that can kill pathogens... It doesn't take much technology to control the ones that are suppressed by nutrient competition and antibiosis. We have that now."

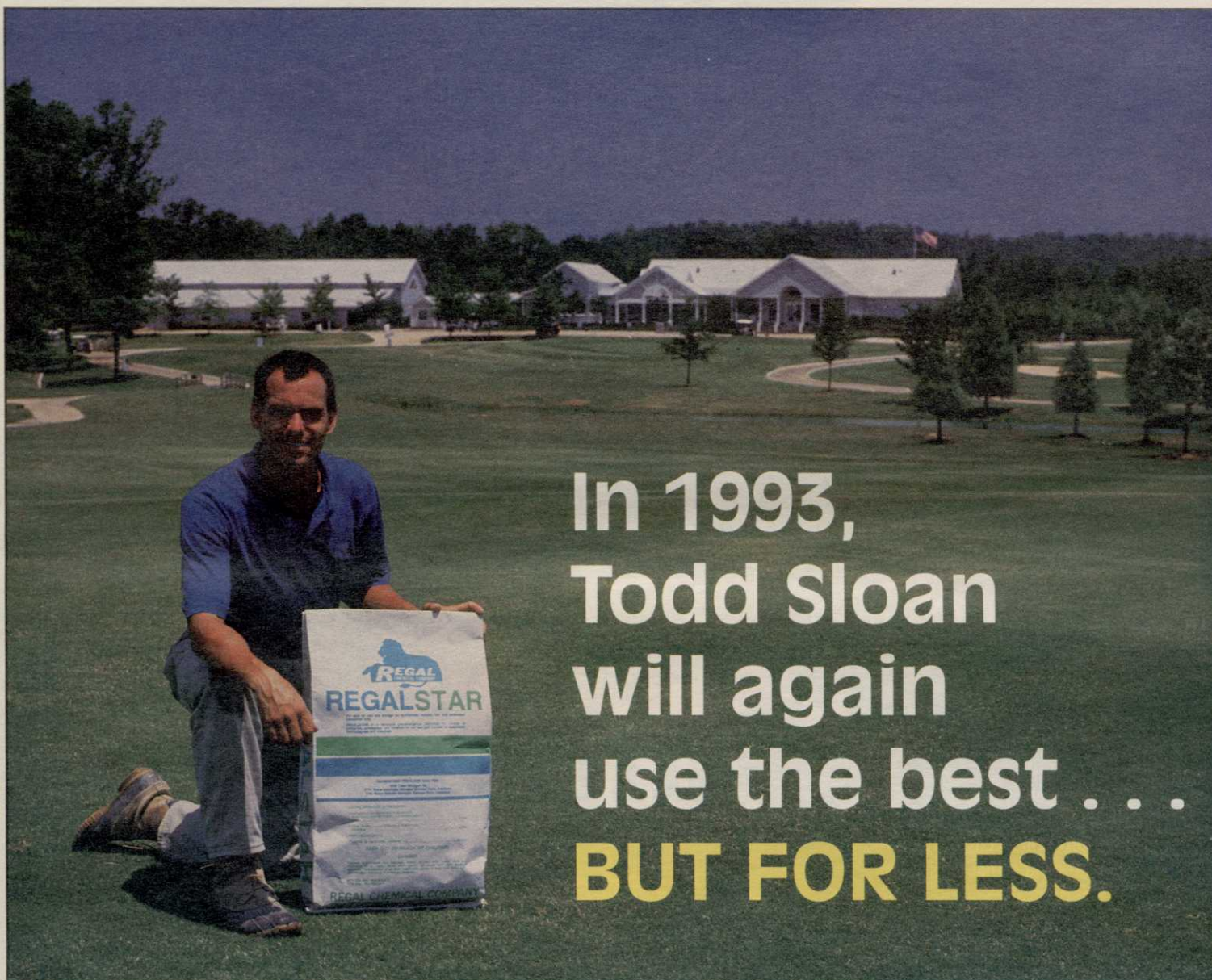
"Specific organisms such as *Rhizoctonia* that require specific other organisms—that will take time."

OSU holds patents for controlled inoculation of composts after peak heating with specific biocontrol agents. "We are scaling up this technology for potting mixes with Earthgro (of Lebanon, Conn.)," Hoitink said.

This effort at Earthgro is supported by a U.S. Department of Agriculture Small Business Innovative Research (SBIR) grant.

Scientists will also be investigating how the microflora on the turfgrass root system impacts the resistance in the top of the plant.

"Our main emphasis is looking at that microbiology," said Cornell's Nelson. "If we were to do more studies with root-zone mixes, we would target them for root diseases such as take-all patch, summer patch and necrotic ring spot."



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CIRCLE #128/BOOTH #1236

Compost seen as future replacement for methyl bromide

Methyl bromide, used to sterilize putting surfaces for reconstruction, will be replaced by compost mixes on golf courses, according to Ohio State University Professor Harry A.J. Hoitink.

Most of the nursery industry has not used methyl bromide for a decade now, Dr. Hoitink said, adding: "To do that on golf courses will require the same kind of procedure — blending and formulation — that we have perfected over the years for the nursery industry."

"The technology exists to replace methyl bromide with compost because compost, produced and cured properly, can be colonized with appropriate micro-organisms to control those soil-borne plant pathogens against which we fumigate with methyl bromide."

In 1972 OSU revealed technology with procedures of composting which essentially led to the elimination of methyl bromide by the nursery and greenhouse industry by 1976. Very few nurseries have used methyl bromide since then.

Hoitink predicted that in agriculture, "by and large, only those crops fumigated with methyl bromide today will be able to pay a relatively high price for compost. The reason is that compost will substitute for methyl bromide for control of soil-borne plant pathogens."

In addition, fungicide applications required after fumigation are reduced or eliminated in some cases. This is due to the disease-suppressive properties of composts used by nurserymen today. Proof for this was first published from OSU in 1978. It has been practiced increasingly by both florists and nurserymen since that time.

Compost research

Continued from page 25

wood forests, you never see an epidemic of soil-borne diseases. Only in disturbed ecosystems do we see epidemics of soil-borne plant pathogens."

Nelson said he started five years ago trying to identify composts that were suppressive as top dressing applications to a variety of turfgrass diseases.

"Every disease for which we've looked for a suppressive compost, we've found at least one," Nelson said. "We now can suppress brown patch, dollar spot, Pythium blight, Pythium root rot, Typhula blight [gray snow mold] and red thread."

"Other composts have shown suppression of necrotic ring spot. In the coming years we will look at pink snow mold, anthracnose and leaf spot."

Hoitink, Nelson and their colleagues are trying to understand more of the microbiology of the composting process itself. And, more importantly, the microbiology of suppressive composts.

"We clearly know that disease suppression in most of the composts we work with is related to the microflora in that compost," Nelson said. "So there are key elements in the microflora providing the disease control. We need to understand what the activity of those key components are."

"We hope to characterize the disease-suppressive microfloras and have a fingerprint of what it looks like," Nelson said. "Once we've been able to fingerprint these communities, we'll have a biochemical picture of what a suppressive microflora looks like. Then we can go to other composts, take similar pictures and try to more accurately predict suppressive properties."

That done, they will be able to inoculate compost with the disease-suppressive microflora.

For potting mixes, the ideal biocontrol agents already have been identified at OSU.

"It's a tall task but it's possible with what we know already," Nelson said.

Calling the fine-particled yard-trimming composts "ideal for construction of golf courses," Hoitink said more of it will be available as time goes on and landfills are

closed to grass, leaves and brush.

Nurseries use coarse-particle compost.

"Yard-trimming composts are not waste. They are resources, because the topsoil industry has capitalized on them by producing a rather homogeneous-in-quality compost," Hoitink said. "The result is, they can start to blend these materials with soils and sands and produce products that can be used in construction of golf courses, in the extreme, and very much so for gardens and lawn construction for homeowners..."

Nelson predicted it will be five or 10 years before scientists will have "a good handle on the microbiology of disease suppressiveness and the predictable use of composts on golf course turf. The problem ... is that sometimes they work and sometimes they don't. A given batch of a material might work sometimes and not others, on some sites and not others, and we have no understanding why that is happening."

Turf research is different than container ornamentals research because turf and pathogens are perennial, Nelson said. "In a container you start with a clean plant and you can protect it more effectively than a plant like turf that's already infected."

Nelson said, however, that in new plantings turf is very similar to container mixes.

"In fact, we've used compost as construction mix amendments — replacing peat with compost — and we get dramatic results, especially in regard to Pythium root rot control," he said.

"In the absence of any amendment, or in the presence of peat, you get complete destruction of turf within two weeks after inoculating with a root-rotting Pythium application. With these compost amendments, disease losses can be avoided."

Country Club of Rochester (N.Y.) superintendent Bob Feindt, who has experienced extraordinary results in tests he has done with Nelson on his course, said: "Other superintendents were laughing at me



Dr. Eric Nelson

when we started five or six years ago. But we're seeing promise now, so people aren't laughing any more."

Feindt is also using organic fertilizers, turkey and brewery wastes, but said: "This is not a panacea. There is a lot of promise, but a lot of things are happening we don't understand. There are variables to deal with, from different climates to different soils. We need more research. There are so many variables — climate, terrain..."

"We're [the industry] growing grass under stress. We're cutting it so short and putting a lot of stress on the grass, so we're relying on chemicals to keep the grass alive. I think we have to start feeding our grasses more, raising the height of cut and other cultural things as well as using natural organics."

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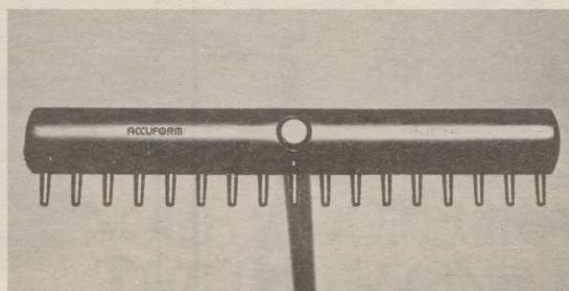
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Georgia elects slate of officers for 1993

William Shirley of The Idle Hour Club in Macon was elected president of the Georgia GCSA. He heads a slate of officers including Mark Esoda, vice president, Atlanta Country Club, Marietta; and Mark Hoban, immediate past president, Standard Club, Duluth.

Directors are Jim Dusch, Atlanta National Golf Club, Alpharetta; Mike Hamilton, Harbor Club, Greensboro; Ralph Hinz, The Landings, Savannah; Bob Perry, Griffin Country Club, Griffin; Chuck Underwood, Northwood Country Club, Lawrenceville; Stephen Wilson, Druid Hills Golf Club, Atlanta; and Franz "Buck" Workman, Valdosta Country Club, Valdosta.

Mid-America Show focuses on careers

The 1993 Mid-America Horticultural Trade Show is hosting an industry-focused Career Center for college or high school students, and companies with employment opportunities.

The Career Center will be held Friday, Jan. 15, from 8:30 a.m. to noon, in the Imperial Ballroom of the Fairmont Hotel, 200 N. Columbus Drive, Chicago.

Horticultural industry companies from Illinois and neighboring states have been invited to participate, as well as horticultural students from more than

50 Midwest universities, colleges, junior colleges and vocational schools. High school seniors who have demonstrated interest in a horticultural career also have been invited.

At the Career Center, students seeking full-time employment, summer work or internships will have an opportunity to interview with representatives from companies.

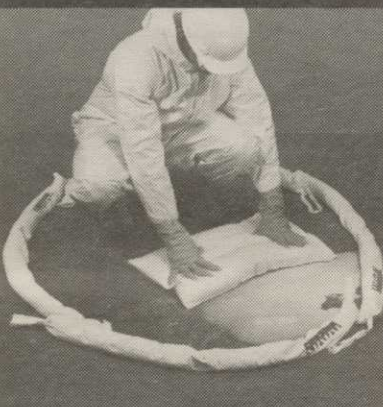
For more information, contact Med-Am at 1000 N. Rand Road, Suite 214, Wauconda, Ill.; or call 708-526-2010.

Georgia increases scope of seminars

To meet its members' needs, new seminars and networking opportunities have been added to The Georgia GCSA's 1993 calendar. These include the GGCSA Mechanics Seminar, Jan. 18; and two Spray Technician Seminars, Feb. 15 and Feb. 22, respectively. April's Southeastern Turf Conference in Tifton, the summer conference at the Augusta Raddison in August, and the annual meeting in November at Kiawah Island Resort all provide excellent education for Georgia members.

Monthly golf outings have also increased membership opportunities.

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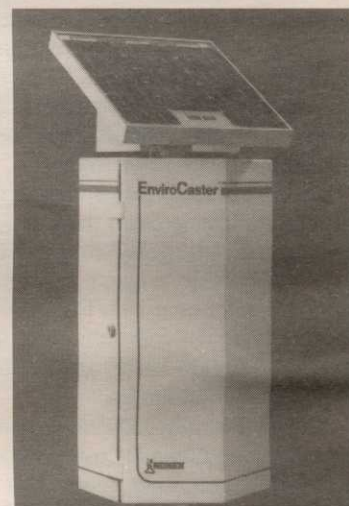
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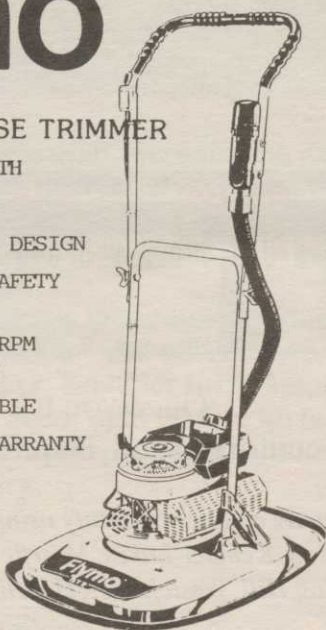
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CIRCLE #136/BOOTH #400

West's dry spell expected to last into foreseeable future

Continued from page 4

idea the drought is over is a misconception of the media," said Ray Davies, superintendent at Virginia Country Club in Huntington Beach and past president of the Southern California Golf Course Superintendents Association.

For example, Virginia CC received 1/2-inch of rain in a recent 24-hour storm, Davies said. Courses 40 miles north in the Los Angeles Basin got 6 to 8 inches. But most of the water in both areas simply ran off into the ocean, he said.

And since no major water retention projects have been built since the late 1960s, most heavy rains will continue to simply wash into the ocean, he added.

"California has a permanent water shortage. We simply don't have the capacity to store what we get," Davies said.

Bob Thomas, editor of the Southern California Golf Association magazine *Fore*, said the heavy rains simply bought the area another year without severe restrictions rather than freeing it from the drought. Watering restrictions were lifted this fall in Santa Barbara where water supplies were seriously low.

"What we desperately need is a few 20-inch snowfalls in the mountains to build up the snowpack," Thomas said.

The news is worse farther north and east, according to U.S. Golf Association agronomist Larry Gilhuly. Golf courses on city water in Seattle and Portland were restricted to watering just tees and greens this summer and fall, he said.

"That was never the case in L.A.," he recalled. "Every time I drive through Northern California, I can't believe how low Lake Shasta is."

"It's down 40 to 50 feet. That's a major water source for that part of the state."

Farther east in Las Vegas, the water district has raised the price of water significantly to curb water use, Gilhuly said. Nevada Gov. Bob Miller declared 14 of the state's 17 counties drought disaster areas.

The Wall Street Journal reported recently that Idaho Power Corp. — which serves Idaho, Oregon and Nevada — will spend \$90 million more this year to burn coal because less water in the rivers meant its hydroelectric facilities ran below capacity. It will pass that added cost on to customers.

"Rising electric rates is a problem I hear at almost every course," Gilhuly said.

The same article suggested this drought may not be unusual. Studying tree rings, scientists believe decades-long dry spells may have occurred in past centuries and that the 1900s have actually been a wetter-than-usual time.

While that may give most Western states cause to dread the fu-

ture, in Arizona they are looking forward to it.

Despite being mired in a 30-year dry spell, the state goal is to have no further depletion of the aquifer by the year 2025, according to Arizona Golf Association Director Ed Gowan.

The golf industry has moved away from a confrontational attitude with regulators to a cooperative one. For their part, regulators approach the industry with a much more open mind than

they did 10 years ago.

With the two working together, Gowan said the no-depletion goal is attainable, especially with the amount of effluent available. Ninety-five percent of the state's waste water presently is not re-used, he said.

Projects are underway statewide to get that water to where it is needed, such as a nearly completed 35-mile pipeline that will pass by Desert Mountain near Scottsdale.

The 12 inches of rain Phoenix received in 1992 was twice its average annual rainfall. Tucson was somewhat drier, but still above average.

Another heavier-than-normal year of rainfall will get most of the state's reservoirs and water tables back to normal, he added.

"There is plenty of water. The major issue now is quality. We need to make sure the chemicals put down on the ground don't contaminate the water," Gowan said.

Missouri wetland report ready

JEFFERSON CITY, Mo. — The Missouri Department of Natural Resources' Division of Geology and Land Survey has released a report titled "Missouri Wetlands: A Vanishing Resource." The report regards the status of Missouri wetlands, as well as the programs and activities affecting them.

It is available at no cost from Jane Epperson, Missouri Department of Natural Resources, 1-800-334-6946.



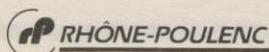
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Northeast

CLARKE ADVISES ON FUNGICIDES

NEW BRUNSWICK, N.J. — Dr. Bruce B. Clarke, extension specialist in turf pathology at Rutgers University, discussed fungicide

control and irrigation practices for Summer Patch disease at Rutgers' recent turfgrass field day.

He said the first application of drenches should be made at 65 degree soil temperatures, as the disease becomes active

at about 68 or 69 F soil temperatures.

Applications should be done on overcast days when drying conditions are poor, so the control product can be watered down to the crown and roots to allow it to be translocated up.

Applying Summer Patch controls on clear bright days, when drying conditions are excellent, almost insures failure because most of the effective control products are absorbed under those conditions in 30 seconds or less.

He recommends an optimum of 5 gallons of finished spray per 1,000 square feet, with 1/8 to 1/4 inch of irrigation immediately following. He said tests done at the University of Maryland have shown that too much water can dilute the product and reduce control.

NEW HAMPSHIRE DRAWS TOP SPEAKERS

MANCHESTER, N. H. — The 1993 New Hampshire Turf Conference Jan. 14-15, at the Center of New Hampshire features a wide variety of speakers.

Dr. Gerry Stephenson, University of Guelph, Canada, will discuss human exposure to turfgrass pesticides.

Other speakers include Drs. Richard Schmidt, V. P. I.; Doug Brede, Jacklin Seed Co.; Gail Schumann, UMass.; Roch Gaussoin, U. Nebraska; Jeff Nus, GCSAA, Kansas; James Wilkinson, Earth Gro, Conn.; Jim Dotson, Miles, Inc., Kansas, and Bruce Fraedrich, Bartlett Tree, N. C.; and Paul Sachs, North Country Organics; and Kathy Schmidt, Division of Pest Control, N. H.

West

SOUTHERN CALIFORNIA OUTLOOK GOOD

MISSION VIEJO, Calif. — If the number of attendees and exhibitor responses at the recent Southern California Turfgrass EXPO were any indication of the economic outlook for 1993, the forecast looks awfully good. Chuck Wilson, EXPO director, said that from a preliminary count that about 3,600 professionals attended the two-day educational event annually held at the Orange County Fairgrounds in Costa Mesa.

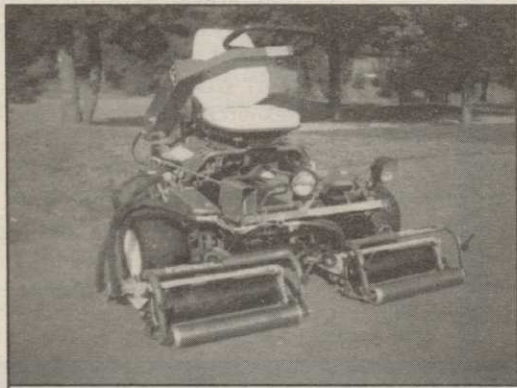
According to Wilson, the 190 plus exhibitors, 75 percent of whom have participated in the EXPO for five to 32 years, indicated a positive outlook for sales in 1993 based on the responses and sales leads generated from the show.

"I think the negativity from the past year's recession has bottomed out," said Wilson. "Tough times seem to have passed."

INLAND NORTHWEST SHOW SET

SPOKANE, Wash. — The turfgrass industry's latest technology will be unveiled at the sixth annual Inland Northwest Turf and Landscape Trade Show Wednesday, Feb. 17, at Spokane Interstate Grounds.

Admission is free. Show time is 9 a.m. to 4 p.m.



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Southeast

N.C. EXPECTATIONS HIGH

WINSTON-SALEM, N. C. — Record attendance is expected here for the 1993 North Carolina Turfgrass Conference and Show Jan. 13-15, at the Benton Convention Center.

Said Gene Maples, executive director of the Turfgrass Council of North Carolina, "With our increased marketing effort, I'm looking for 2,500 persons to view the 300 exhibit spaces. Products will span the range of turfgrass management product and service."

Added Dr. Richard White of North Carolina State University's research faculty, "The educational value of our conference drives the total event."

Second-day speakers include Thomas M. Dille, president and CEO of Rhone-Poulenc Ag Company, and the New York Audubon Society's Ron Dodson, who heads the cooperative sanctuary program recently established with the U. S. Golf Association.

Speakers on the final day will cover every turf industry segment. In addition to golf turf, lawn care and grounds management, emphasis will be given sports turf.

GEORGIA GCSA HONORS STUDENTS

The Georgia GCSA 1992 scholarship

recipients were recognized at the GGCSA 1992 annual meeting. Brad Salmons, an agronomy major from Athens attending the University of Georgia, and Michael Simons, a turf management sophomore attending ABAC, each received a \$1,000 scholarship, a plaque of recognition, as well as an expenses-paid trip to the meeting.

Two GGCSA scholarships are awarded annually to Georgia turf students in recognition of outstanding scholarship qualifications and academic performance to encourage their consideration of the golf turf profession as a life career.

North Central



HEART OF AMERICA ELECTS RODENBERG

QUIVARA LAKE, Kan. — Terry Rodenberg of St. Andrews Golf Club in Overland Park is the new president of the Heart of America Golf Course Superintendents Association. He succeeds Jeffrey M. Elmer, Lakewood Oaks GC, Lee's Summit, Mo.

Pat Finlen, Quivara Lake CC, Heart Beat editor the past two years, defeated John Francis of The Country Club of Blue Springs for the vice president's post.

Chuck Hybl, Hillcrest CC, Kansas City,

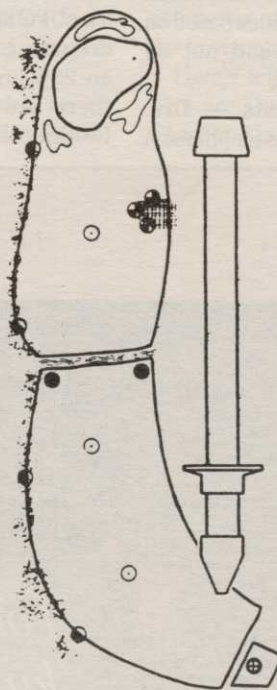
Mo., was elected secretary-treasurer.

New board of directors members are Bill Bologna, Hodge Park GC, Kansas City, Mo.; Tyler Koch, Blue River GC, Kansas City, Mo., and Gary Highbie, Trails West GC, Leavenworth.

PATTON JOINS SCOTT'S

Duane Patton, Lawrence CC superintendent for the past 22 years and for 10 years Heart Beat GCSA secretary-treasurer, was paid special tribute. Patton has become a Scott's technical representative.

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RANSOMES

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Scientists put pesticide lobby's arguments to rest

By MARK LESLIE

Sparing no time responding to an environmental coalition's call for quick and hard-hitting pesticide laws in Ontario, a Canadian green industry organization has published a scientific document that critiques and disproves many of the coalition's statements.

Thom Charters, a director of Green Care Horticultural Association, said "A Scientific Response to the Urban Anti-Pesticide Lobby" has been distributed to each of its 20 superintendent, turfgrass and lawn care-related member organizations and Green Care is fielding requests for additional copies.

But despite the document's significant refutations to statements made by the Urban Pesticide Caucus (UPC), the response has been meager, Charters said.

Charters said executive summaries from the Green Care report were sent to 2,500 members of the media, who were offered the entire report.

"Yet, we have only six or seven requests," Charters said. "That tells me the media will take what they're spoon-fed, but if it requires any effort they won't bother."

Charters also said people in the golf industry are not even responding to the available information. "A lot of people in our business say, 'Yes, it's a crime what they (environmental activists) are doing,' but they don't do anything about it... Public perception is beginning to overwhelm people. They would rather not discuss the issues in public," he said.

Written by three scientists with Ecological Services for Planning Ltd. of Guelph, Ontario, the Green Care booklet is a "must addendum" to any letter the association sends out bringing "irresponsible stories to people's attention," Charters said.

The booklet stands as an obstacle to the UPC's war cry to ban "urban cosmetic use of pesticides by the end of 1993 or earlier."

Charters said if the UPC is successful in Ontario, "it's automatic they'll take it (action plan) across the country."

Asked if the Green Care report's disapproval of UPC statements has changed any minds of the environmentalists, he said: "Having participated in many forums on this subject, mostly on the municipal level, I know the audience I would get with them and it would be pointless. This report would not temper their approach whatever. They are the radicals of the no-pesticide issue."

The report, however, might help as a companion document to a new book published by the American Society of Golf Course Architects (see accompanying story).

Ecological Services for Planning Inc. performed a scientific review of the document that serves as the basis for UPC action: "Regulating the Urban Cosmetic Use of Synthetic Pesticides — An Action Plan for the Province of Ontario."

ESP said: "Due to the selective nature of cited scientific sources, readers may be misled to reach conclusions that are not supported by the weight of evidence. The type of information presented in the report will serve to further increase the public's misconceptions of pesticides and could possibly result in regulation of pesticides based on emotional reasons and not on scientific rationale."

The ESP scientists — Drs. Shelley Harris, Gladys Stephenson

and Chris Wren — proceeded to expose misstatements, conjecture and "extremely selective" statements that are "highly misleading."

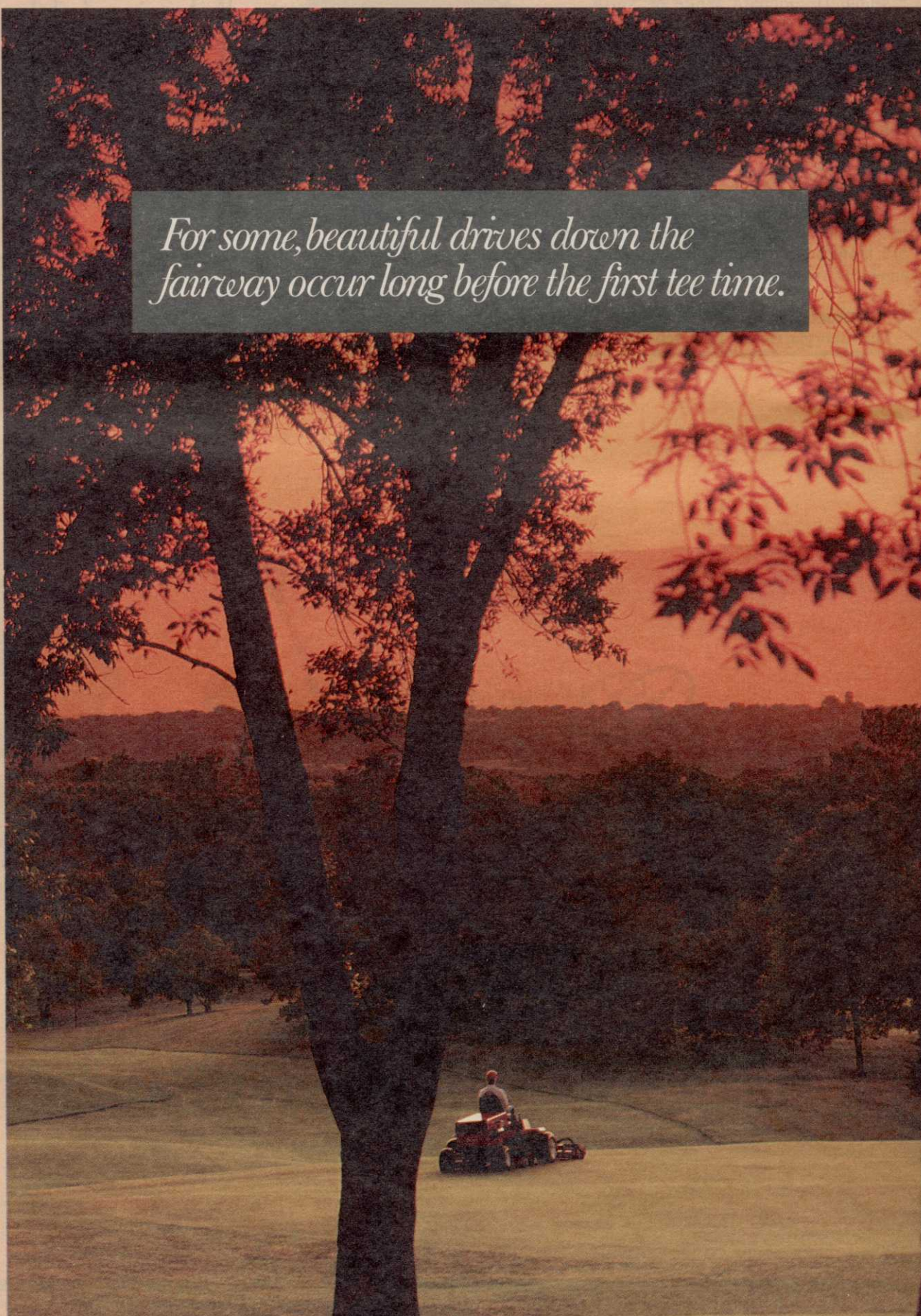
The report added: "There is a major concern that the majority of the information sources are biased towards the anti-pesticide lobby. The UPC has cited 78 sources in its document. Of these sources, there are 26 'journal' articles. Eighteen of these are from the Journal of Pesticide Reform, which is not a

peer-reviewed scientific journal and could not be located by University of Guelph and University of Waterloo library searches.

"Of the remaining eight 'journal' articles, the information from three, which was checked, was taken out of context or interpreted in such a fashion as to support the opinion of the UPC. Many of the remaining sources (i.e. Canadian Environmental Law Association, Friends of the Earth, National Coalition Against the Misuse of

Pesticides, Northwest Coalition for Alternatives to Pesticides, and Pollution Probe) are from groups which support the views of the UPC and do not necessarily present the weight of the scientific evidence. Furthermore, these groups do not conduct scientific research."

"A Scientific Response to the Urban Anti-Pesticide Lobby" is available for \$10 from Green Care Horticultural Association, 34 Lambeth Road, Islington, Ontario M9A 2V7.



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

'The bottom line is that we are trying to bring the golf course development business out of the dark.'

— Bill Love

ASGCA member and book's author



By MARK LESLIE

Many people involved in the golf development approval process are, in a sense, living in the Dark Ages, unschooled in the intricacies of planning, designing and building a golf facility.

The American Society of Golf Course Architects (ASGCA) hopes

to end that with its new 43-page, four-color publication, "An Environmental Approach to Golf Course Development."

"Our objective was not to write a book but something that was concise and easy to read," said author William R. Love, chairman of the ASGCA Environmental Committee.

ASGCA book sheds light on construction

Second printing already expected after initial run of 20,000

"It's not meant to be a scientific work. It just deals in lay terms on how we go about the process."

Loaded with photographs, the book's first 18 pages discuss how golf course builders and architects address environmental issues. The last 25 pages are devoted to a dozen case studies and lists of scores of reference materials.

"The bottom line is that we are trying to bring the golf course de-

velopment business out of the dark," Love said. "Decision-makers are operating without this information. It also gives them a better feel for the game, the growth of the game and the need for better golf courses, how we can provide more and better courses and work with the environment."

Love's fellow committee members are Douglas Carrick, Bruce Charlton, Lindsay Ervin, Don Knott,

Tom Marzolf, Mark Mungeam and Rodney Wright.

Love said the initial printing of 20,000 copies is expected to be followed by another 30,000.

"We're anticipating a second printing because we hope it proves to be a useful educational tool," Love said. "We want to have this book to distribute so they [decision-makers] can see this is done with a lot of responsible design and construction and management. It's not done haphazardly, and, by the same token, it's done very sensitively in respect to the environment. We work very closely with the ground at each site to derive a golf course that's compatible and beneficial."

Saying the United States Golf Association book, "Golf Course Management & Construction: Environmental Issues," released last May, deals with topics like chemical applications and best management practices, Love said his firm, Ault, Clark & Associates in Kensington, Md., "found we would come to a meeting with that kind of information, but it was so scientifically oriented it lost a lot of people."

"So we wanted to give people a better understanding of our process. If they should be prompted, they can go to the scientific sources. We hope this will get us on good ground with people as far as communication is concerned."

Bill Koonz, new president of the Irrigation Association, whose members have donated \$50,000 of a targeted \$75,000 to print the booklet, said educating board officials "affects us, the manufacturers. It affects the distributors, the contractor base, and our irrigation consultants."

Koonz, president of Koonz Sprinkler Systems, Inc., in Springfield, N.J., said that as a former mayor, he has seen first-hand the need for elected officials to have technical information available in laymen's terms.

"Plus, people don't realize superintendents are all professionals and licensed applicators... The other reason for supporting this work is to combat the hired gun," he said.

ASGCA Executive Director Paul Fullmer said 100 copies were sent to each of the group's members to distribute as they see fit.

"Permitting boards are the crucial place for them," Fullmer said. "We expect a lot of other people in golf to be interested — people working at the grassroots level. The superintendents associations, for instance, have made quantity orders."

Love called the booklet a group effort involving every organization in the Allied Association of Golf. It is available for \$10 through the ASGCA at 221 N. LaSalle St., Chicago, Ill. 60601; and the National Golf Foundation at 1150 South U.S. Highway One, Jupiter, Fla. 33477.

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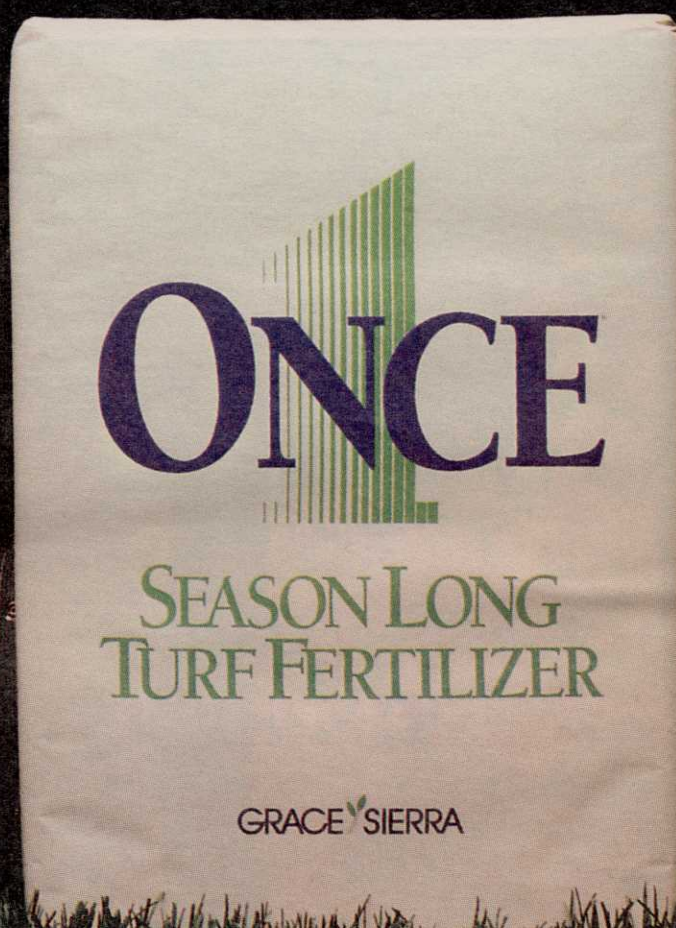


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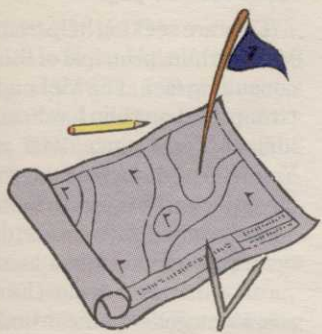
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PLAYER COURSE GETS FACELIFT

MACON, Ga. — River North Country Club, host to the former Ben Hogan-nick-sponsored Macon Open, held its grand reopening Oct. 23, after undergoing a major renovation project this summer. After the Hogan stop, bunkers on the front nine of the Gary Player-designed course were reshaped, sodded and sanded in-house by superintendent Arthur Jamison and his maintenance staff. Bunkers for the back nine are to be redone this spring. The greens were cored and rebuilt to USGA specifications and original profile by Hendrix & Dail, Inc./Sunbelt Services of Tifton, Ga., and Palmetto, Fla., a division of Hendrix & Dail, Inc. of Greenville, N.C.

HILLS BUSY, WISCONSIN TO S.C.

Construction has begun on the new La Crosse (Wis.) Country Club. Designed by Arthur Hills, the course will measure 7,090 yards from the championship tees and will be the centerpiece of a 1,200-acre residential development. Meanwhile, Hills is teaming with Greenwood Development Corp. to fashion Coosaw Creek Country Club in North Charleston, S.C. Hills' Southpointe Golf Club is under construction in Pittsburgh. Being developed by Millcraft Investments, Inc. of Pittsburgh, Southpointe is the focal point of a 589-acre mixed-use development.



GOLF SERVICES INKS CONTRACT

LEWISBURG, Tenn. — Golf Services Group, Inc. of Knoxville has been awarded a contract to develop a municipal golf course for the city of Lewisburg. The course will be designed by Gene Bates and Associates of Palm Beach Gardens, Fla., and construction is expected to begin early this year and open in the summer or fall of 1994. The course will be built on land donated to the city by the Edward Roberts family.

RAVINES RENOVATION COMPLETE

ORANGE PARK, Fla. — Ravines Golf & Country Club in Middleburg, just south of Jacksonville, has reopened after extensive renovation. Originally designed by Mark McCumber & Associates in 1979 and built on land that weaves over and around 80-to 100-foot ravines alongside historic Black Creek, Ravines was purchased in 1990 by Kondo Sangyo Corp. of Asaka, Japan, which later commissioned McCumber to redesign and renovate all 18 greens.

GOLF COURSE NEWS

MAPLES

A word scramble that has paid off in North Carolina:



Before Ellis Maples died in 1984, the Maples family got together. In front are Palmer Jr., left, and Willie, sons of Palmer Maples Sr. Back, left to right, are Dan, Ellis, Joe, Gene and Wayne. Dan and Joe are sons of Ellis. Gene and Wayne are Henson Maples' sons.

By MARK LESLIE

Thank you, James Maples Jr. You gave the golf world three generations of Mapleses, whose name is now synonymous with Pinehurst.

Indeed, a person in the development business declared, "Maples: The name is Pinehurst."

James is no longer with us. He died in 1949. But his family's legacy will forever affect golf in not only North Carolina — where his son Frank built Pinehurst Nos. 1, 2, 3 and 4 with Donald Ross — but wherever else golfers play courses designed by his grandson Ellis and great-grandson Dan.

Today, seven great-grandchildren of James are stalwarts of the golf profession.

There are brothers Gene and Wayne — Gene the executive director of the Turfgrass Council of North Carolina and Wayne the superintendent of The Pit in Pinehurst. Their

Continued on page 48

War or no war, golf moves on

By MARTHA LAYNE

Slovenia and Croatia, recovering from a war for their independence, are pursuing golf course development as a means of boosting tourism and encouraging economic recovery in their countries.

Both countries face an uphill battle. Yugoslavia and its former republics have a reputation in Europe of consistently offering low-quality, low-priced commodities. Early attempts at golf course development, with architectural fees averaging \$5,000 per course, were shoddy at best. With independence, a new sense of national pride is emerging and both countries are turning to America for assistance in developing an excellent product.

Continued on page 42



Legalities aside, Fox Hollow done

LAKEWOOD, Colo. — After two years of legal struggles with equestrians and environmentalists, the city of Lakewood has completed what superintendent Don Tolson calls "a masterpiece" — Fox Hollow.

Equestrians, who had no developed trails before, now have a trail through most of the heavily wooded part of the property, crossing Bear Creek three times and twice climbing a hill overlooking the entire course.

"With 450 acres, we were able to build 27 holes, keep the trail apart from the course and set aside all the high-quality habitat," Tolson said. "It's a great piece of property. The soil conditions and water quality are good. Environmentally, we're going to be extremely aware, with integrated pest management practices."

Because Bear Creek runs through the course, architect Denis Griffiths and builder Wadsworth Golf Construction Co. builders maintained a 50-foot buffer for chemical applications and dug two ground-water



The first hole at Fox Hollow.

monitoring wells between the course and the creek. Tolson's crew will monitor the wells monthly through the growing season.

"Our wildlife has prospered through construction," Tolson said. "It is abundant and probably has increased. A pair of nesting

redtail hawks had three babies. There are a half dozen coyotes that are really tame, a herd of about a dozen deer, geese, ducks, great horned owls and a diversified population of songbirds.

Any foxes at Fox Hollow? "Not yet."

CB Commercial jumps into golf, resort brokerage field

SAN DIEGO — CB Commercial, the largest commercial real-estate brokerage firm in North America, has established a national golf and resort group, according to Brett White, senior vice president.

Heading up this new division will be Tim Cajka and Jeff Woolson of San Diego and Mike Hoyle of Fort Worth/Arlington, Texas.

"We saw a strong demand for this service," said White. "During the early- and mid-1980s, there was a buying frenzy which drove the prices of golf and resort properties up and cap rates down. Potential buyers did not need the use of brokerage and marketing services as deals were abundant.

"Today, the transactions are much more scrutinized and it is to the buyers' and sellers' advantage to rely on the expertise of a real-estate professional."

The level of sophistication in which investors approach golf properties has increased dramatically over the last two to three years, White said.

CB Commercial Real Estate Group has a national network of 85 offices established in major metropolitan areas across North America.

The firm has international experience and marketing capabilities with offices servicing the Pacific Rim, Canada, Europe and Mexico.

In addition to traditional brokerage services, CB Commercial is a full-service company offer-

ing capabilities such as appraisal, investment banking and consultation services in order to access and better serve its large clientele.

The golf and resort division has already totaled \$135 million in sales of golf and resort properties in California, North Carolina and Texas, with more in escrow. It is marketing golf and resort properties in California, Texas, and Pennsylvania.

"Golf course investors have become very diversified," said Woolson. "We are still seeing Far Eastern buyers and there has been an increase of European and Canadian buyers. In addition, there have been more active domestic buyers than in the last few years."

The Balkans

Continued from page 41

They are seeking help from Jim McLoughlin, principal of the golf consulting firm, The McLoughlin Group. McLoughlin has been visiting the area since 1987 when Yugoslavia requested he evaluate golf course projects there.

McLoughlin says course development would tap into a lucrative vacation market. For most Europeans, winter golf often means a seven-hour flight to the Canary Islands off northwest Africa. Development along the southern Adriatic, where winter golf is pleasant, would strongly attract Europeans who could fly there in half that time.

Slovenia will likely lead this push for development. It possesses the most Western sensibility of all the Yugoslav republics, and has established a stable economic base to attract foreign investment. Slovenia has already issued over \$500 million in bonds for economic development and has committed federal parks and private lands for golf development in the country.

Slovenia will consider six to eight sites for possible development. The country has inherited one 18-hole, respected golf course which was built in the 1930s by British architect Donald Harradine.

It sits in the shadow of the Alps and currently attracts tourists from Austria, Italy and Germany.

Croatia's efforts to develop golf should not be overlooked either. Its miles of Adriatic coastline and the Island of Brijuni, a few miles off the coast, present an ideal, attractive setting for the game. Brijuni, popularized as Marshall Tito's "Camp David," is slated to be used for development of a distinguished golf course and resort area. The appeal of the island is proven — in 1992 its hotel occupancy rates ran between 75-85 percent in spite of fighting in the southern sectors of the country.

Economics may be the greatest stumbling block for Croatia. Its currency, issued at the same time as Slovenia's, is worth only one-fourth the current value of its neighbor's. Taxes (those which aren't used for current war efforts) are earmarked solely for rebuilding war-torn cities, and no money for course development will be committed until this rebuilding is complete.

To date, McLoughlin has met with the presidents, prime ministers and ministers of tourism in both Croatia and Slovenia, and has already developed a plan of action for Slovenia which will be adopted in the next few months. He has suggested the creation of a Golf Course Authority which will oversee the development of courses and maintain high quality control standards. Developers would need to make application to the Authority and meet certain quality criteria before working in the country. He also is working to insure young people are involved in the development so that, once developed, golf will continue at a high level for years to come.

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CIRCLE #143/BOOTH #530

Mexico calls Graham/Panks

HERMOSILLO, Sonora, Mexico — Scottsdale, Ariz.-based Graham & Panks International is designing Los Lagos Country Club. When completed, it will be the city's first 18-hole golf course.

The firm is also designing Chaparral Pines, a 1,175-acre master-planned community and private club in Payson, Ariz.

The Mexican project is being developed by the Mazon Group, a Hermosillo-based developer. Hermosillo, the capital of the Mexican state of Sonora, is located just

250 miles south of Phoenix, Ariz., and only an hour north of the Mexican resort town of Guaymas.

"The area is naturally well-suited for a traditional golf course design," said Panks. "The course will be gently contoured and will feature extensive water amenities and landscaping."

Construction began in December, with an opening date set for the fall.

Ground breaking for the Arizona project, which also includes a nine-hole par-3 layout, is due in May.



Oregon Club's menu full

Creeks, natural grasses and majestic views of Mt. Hood greet visitors playing The Oregon Golf Club, which has opened in West Linn, Ore. Designed by Ken Kavanaugh of Tucson, Ariz., the 7,034-yard, par-72 private course plays through varied terrain. PGA Tour player Peter Jacobsen co-designed the course and serves as the club's director of golf.

Roquemore uses mammoth views to best effect

BIG CANOE, Ga. — Golf course designer Rocky Roquemore carefully incorporated spectacular 50-mile views of the Blue Ridge Mountains into the layout of the recently opened third nine holes of Sconti Golf Club here.

The private resort community's new par-36 Cherokee nine measures 3,170 yards from the championship tees. The original 18 holes, now named the Choctaw and Creek nines, were designed in 1974 by Roquemore and Joe Lee.

"The new 2nd and 9th holes have absolutely stunning views," Roquemore said. "In some ways it's easy to build a great golf course when you're working with nature's beauty. The design is very harmonious with the mountain setting of Big Canoe."

The 2nd hole, a 498-yard par-5, features a drive with a 100-plus foot drop from the tee box to the landing area. The level fairway takes a dogleg left around a small lake to green.

The 9th hole is a long par-4 with two large drop-offs, the first from the tee to the fairway, the second from the fairway to the green.

"Big Canoe is extremely ecology conscious," said Sam Adams, head professional at Sconti Golf Club. "Rocky faced a number of challenges in not disturbing the natural elements."

Meanwhile, an October completion date is scheduled for the new Roquemore-designed 18-hole championship golf course at Chapel Hills Country Club located in Douglasville, approximately 20 miles west of downtown Atlanta.

Chapel Hills will be owned and managed by the Canongate Group, which operates four other clubs in the Atlanta area.

With homes overlooking the fairways from ridges above, the 6,800-yard Chapel Hills layout winds through valleys and includes two lakes and winding Anneewakee Creek. Unique is a large double green for the ninth and 18th holes.

"One does not expect to find mountain-like settings so near Atlanta," Roquemore said. "There are several postcard holes. It's a course that members will enjoy coming back to again and again."

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Architects promise to adhere to Audubon's program

Members of the American Society of Golf Course Architects (ASGCA) have pledged to design projects in accordance with the Audubon Cooperative Sanctuary Program for golf courses, according to Art Hills, president of the society.

"Golf courses are already a good thing for wildlife and for the environment," Hills said. "But the Cooperative Sanctuary Program helps courses further promote sound land management and the conservation of our natural resources by encouraging the development of wildlife habitats."

The ASGCA agreed at its annual meeting to try to follow Audubon guidelines when designing new courses or remodeling existing ones, according to Hills, who believes that architects and the Audubon Society have much in common.

The Audubon program works to enhance wildlife habitats on golf courses by working with members of the golf industry. It further provides advice for ecologically sound course management and encourages active participation in the program by golfers, superintendents, architects and the general public.

In addition, the Audubon program helps educate the public and golfing community about the many benefits of golf courses and the role they play in relation to the environment and wildlife.

"ASGCA architects share these same goals, as is evidenced by the fact that many of our members have already designed courses that are wildlife sanctuaries," Hills said. "This agreement helps illustrate that groups can work together to achieve results that benefit the entire golf community."

...

The technological boom in golf equipment may soon make many of today's golf courses obsolete, according to Paul Fullmer, executive secretary of the ASGCA.

Fullmer added that the society was surveying its members to obtain their suggestions as to how to best cope with the impact of technology on the game of golf.

"The next generation of John Daly-wanna-be's could render many courses too short to challenge skilled players," Fullmer said. "The increased carry from high-tech balls and clubs makes it impossible for great old courses to host tournaments. In fact, every recent U.S. Open course has undergone extensive lengthening prior to hosting the event."

Equipment improvements can help many players hit farther and post lower scores. The downside is that these advancements are increasing the land needed for golf courses and making them more difficult for the average player, according to Fullmer.

"Land for developing new golf courses and expanding existing

ones is already at a premium," Fullmer said. "In many cases, if a golf course has to be lengthened from 6,200 to 7,200 yards, the space is simply not going to be available."

Fullmer warned that if the length of golf courses continues to increase... developers, architects and superintendents will have a difficult time squeezing 18-hole courses into available sites.

"In 1900, the average tournament course length was 5,000 yard. Today it's more than 7,000

ASGCA Round-Up

yards," he said.

Many existing courses have to move tees back to continue to provide a challenge to highly skilled golfers who have combined their talents with advanced equipment, according to Fullmer.

Bunkering also is a concern for architects and superintendents.

"The bunkering at landing areas

often has to be revised so that it comes into play as the architect originally intended," Fullmer stated.

He also suggested that industry professionals consider using a limited-distance ball.

A uniform ball with distance restrictions would help keep traditional courses playable, he said.

...

Golf course real-estate developments can continue to be viable in the 1990s, especially if they target a different segment of

the home-buying market, according to ASGCA President Art Hills.

"Developers must attract more mainstream buyers rather than simply the elite market," Hills said. "Product and price ranges need to appeal to more than the million-dollar marketplace that's nearly saturated in many areas of the country."

"During these difficult economic times, people want stability and greater value in their home investment," he said.



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The view from the tee at the par-4 18th hole of Regent Miyazaki in south Japan.

Trevino/Graves collaborate in Japan

A resort country club course within view of one of Japan's sacred mountains is the latest achievement of Lee Trevino/Wm. Graves, Inc. in conjunction with Sanford & Associates, the Jupiter-based golf course and landscape architectural firm.

Sanford teamed with the Trevino/Graves Co. in designing the Regent Miyazaki Country Club course, which opened in August.

Located on Kyushu Island in southern Japan, the 18-hole, par-

72 course features breathtaking views of sacred Mt. Kirishima from 12 of its 18 holes.

Its length is 6,820 yards from the back tees; 6,208 yards from the men's tees; and 5,570 yards from the ladies' tees.

Preparing the Miyazaki site was a major undertaking, since the existing topography was extremely irregular, with a series of valleys and peaks that offered drops as much as 330 feet from high points to low.

More than 5 million cubic yards

of earth had to be moved before the terrain would be playable. In addition, a \$15 million storm drainage system was installed to handle the heavy rainfall typical of southern Japan.

Former rice paddies and existing dense plantings of cedar trees were transformed to what is expected to be a highly popular course. The lush trees provide framing, backdrops and buffers between the holes, while the greens are extremely large, averaging 10,000 square feet.

Golf Resources keeping busy

Several principals of Dallas-based Golf Resources, Inc. have returned from completion ceremonies at the Petaw golf project in Hokkaido, Japan. The 27-hole project took approximately two years to complete and has been billed as one of the finest golf courses in Hokkaido, the northern island of Japan.

Golf Resources' team, including architect Maury Miller and agronomist Don Armstrong, worked closely throughout the design, planning, construction and grow-in phases to create the course.

They and Sam Swanson also visited the Byron Nelson Country Club. Golf Resources, Inc. is the architect for this Byron Nelson signature golf course, a 27-hole resort in Iwaki City on the coast of Japan. Completion for this project is scheduled for the summer of 1995.

Domestically, Golf Resources, as architect, is completing the construction of the Shadow Ridge Golf Club in Omaha, Neb. This 18-hole golf course, with PGA player Tom Sieckmann as design consultant, will be a championship daily-fee golf course with residential development surrounding the course.

Major Nevada project proceeds

MINDEN, Nev. — Buckeye Creek Corp. has announced that a tentative map has been approved for its 2,478-unit residential planned community in Douglas County.

The project will be developed on 958 acres in the Carson Valley. Among other recreational amenities, the development will include an 18-hole championship golf course and a nine-hole executive course. Both will be public daily-fee courses. The development also includes congregate care housing and 58 acres of commercial areas including a resort hotel/casino site.

Larry Walsh, vice president finance/marketing, stated that "ground breaking is scheduled for early 1993. Buckeye Creek Corp. is seeking a joint-venture partner to develop and operate both golf courses and possibly the resort hotel (casino) site."

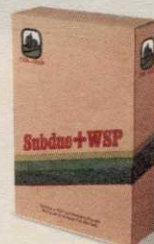
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Player tackles sites in Pa., Fla.

Golf great Gary Player will design courses in Pennsylvania and

Florida that will draw heavily on his extensive game background.

Diamond Run Golf Club is Pittsburgh's newest residential golf course community. The par 72, 7,000-yard course and driving range

cover more than 200 acres.

HawksCrest, a new concept in blending residential communities with golf courses and nature, will

be developed as a sister project to Alaqua, one of Central Florida's most prestigious communities.

Diamond Run construction, just begun, will be complete in the summer of 1994. The clubhouse is scheduled for completion in August, 1994.

Residential plans are for 232 homes, 134 single family homes and 98 carriage homes.

Diamond Run is located in Ohio Township, Allegheny County, on Nicholson Road, two miles from I-79 North, 11 miles from downtown Pittsburgh and 17 miles from the new international airport.

HawksCrest construction will begin early in 1993. The 7,300-yard, 18-hole layout will have approximately 90 acres of irrigated, mowed and fertilized grass. This is 40 percent less than the typical golf course now constructed throughout Florida.

"The natural portion of the course will be an extension of the habitat environment which provides the natural foraging area for small animals to live on the edges of the fairways, and birds in the trees—especially hawks," Player said.

The course winds through sand hills 35 feet high.

An elaborate practice area will include a teaching facility, chipping and putting greens and an 18-hole putting course.

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Photography location courtesy of Marriott's Marco Island Resort and Golf Club.

Lohmann track an exclusive challenge

LIBERTYVILLE, Ill. — The exclusive Merit Club recently opened for play here.

The 21-hole golf course includes three practice holes, practice tee and chipping

and putting green.

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west Golf Development, Inc., Marengo.

Lohmann and Midwest also are extensively remodeling and expanding Indianhead Golf Course in Mosinee, Wis.

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Maples family making lasting impact on world of golf

Continued from page 41

father, Henson, was superintendent at Pinehurst Country Club for 30 years.

There are brothers Joe and Dan — Joe the professional and superintendent at Boone (N.C.) Golf Club and Dan a world-traveling course architect. Their father, Ellis, was a golf professional, superintendent and architect who designed more than 70 courses in the Southeast.

There are brothers Willie and

'Being exposed to it the way we've been, we got the true story.'

— Wayne Maples, son of Henson

Palmer Jr., and sister Nancy Weant. Willie is the vice president of regional marketing for Merv Griffin's Resorts in Atlantic City and



See Super Focus on Palmer Maples Jr., page 30.

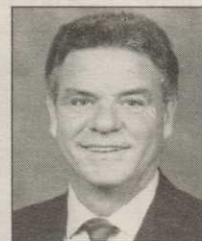
Paradise Island in the Bahamas; Palmer Jr., the superintendent at Summit Chase Country Club in Snellville, Ga. (see story on page 30); and Nancy, an accomplished amateur player in Charlotte. Their father, Palmer Sr., was a long-time golf professional.

Here stands a generation — from its 40s to 60s — grounded

'I got hooked on the idea I could play a little bit.'

— Willie, son of Palmer Sr.

and rooted in golf as much as any family in history. James Maples Jr.'s nine children included Frank, Walter and Angus, who made at



least part of their living on the golf course. Angus helped build Pine Needles in the late 1920s and was a course superintendent. His son Palmer Sr. was a lifetime golf pro.

Walter's son was a long-time golf pro in the Carolinas.

And Frank built courses for Donald Ross, pioneering several pieces of construction equipment, and was Pinehurst superintendent while fathering Henson and Ellis.

"My granddad [Frank] was born in Pinehurst, my dad was born here and I was born here," said Dan from his headquarters... in Pinehurst.

"I was in golf so much it was all I ever knew," said Joe, who was actually born at Mid Pines golf course (now Mid Pines resort) in Vass, N.C.

"We all grew up working in the shop for my dad," said Willie. "Seven days a week we ate, slept and played golf. It was ingrained in me. It was natural for me to go into the business."

Palmer Jr. also tended the golf shop, the bar and grill, and toiled on the course as a youth — deciding he preferred to be a superintendent, "working" the grass and equipment rather than the cash register.

Growing up in this situation, "you pick up maintenance and other things by osmosis," said Dan, who drew his first golf course on paper when he was 6, drove a Jeep when he was 9, and operated his own tractor — building greens for his father — before he had his driver's license.

With the possible exception of Willie, not one of this clan would change his or her career if they could start over again.

"Part of the family went into agronomy, part into the architecture and design end. I got hooked on the idea I could play a little bit," Willie said.

A successful career as a club pro, including three winters on the PGA Tour "hoping to hit a hot streak," followed, and today he holds an exotic job working with celebrities and visitors at Merv Griffin's Resorts, but Willie regrets he did not study landscape architecture.

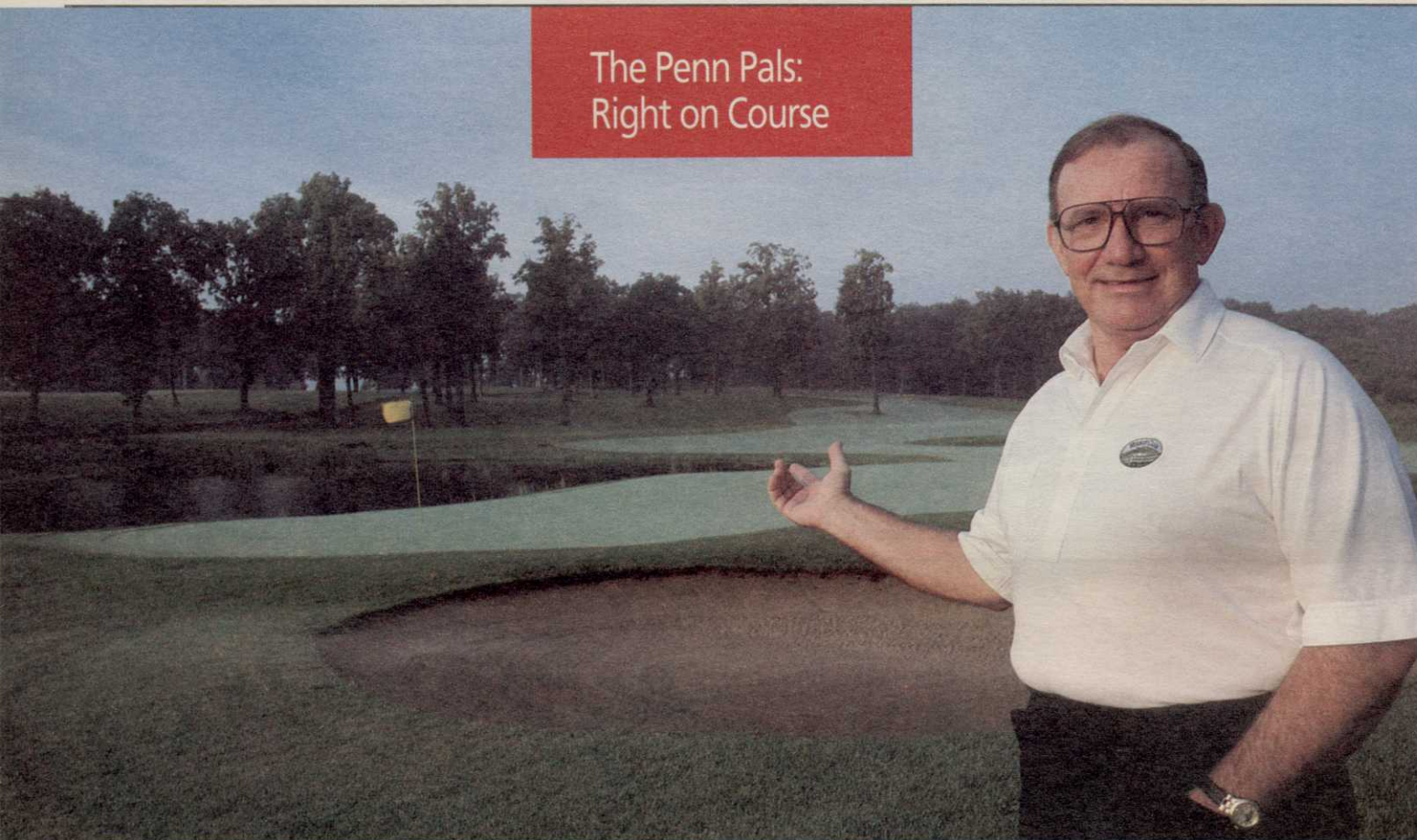
"I'd do it again," said Wayne. "There are ups and downs, but there are in any business. The worst thing about the position is directly related to the weather. Most everything we do out there is a certain amount of gamble. But, being exposed to it the way we've been, we got the true story. We saw the good and bad, the summer and winter. We knew what to expect."

Dan said his move into the golf industry was "no great plan" but a natural evolution. His second year in college, he made "the critical decision to give up [playing] golf and dedicate my time to getting an education."

Dan's and Joe's father, Ellis, was a superintendent and golf pro in the 1930s and 1940s, and got into design full-time in the 1950s.

Joe, now 62, grew up when his father was a pro and super-

The Penn Pals: Right on Course



Oscar Miles, CGCS, overlooks the 6th hole at the Merit Club, Libertyville, Illinois.

PennLinks Greens. Penneagle Fairways. Penncross Tees. The 'Penn Pals' Are Picture Perfect At The Merit Club.

Superintendent Oscar Miles, with Club President Ed Oldfield's affirmation, specified all the grassing of this Robert M. Lohmann designed club. With a clean canvas and open palette, Oscar began with PennLinks greens, Penneagle fairways and Penncross tees, framing them with bluegrass/fine fescue/wildflower and prairiegrass roughs. You couldn't paint a more attractive picture.

Oscar chose PennLinks greens for its rapid establishment, marvelous root system, a crown and stolons that take topdressing, upright, grainless qualities and good, consistent color ... the best putting surface available.

He selected Penncross for tees because they recover from divot scars more quickly.

And the Penneagle fairways? Oscar chose Penneagle for its upright growth, reduced thatch development, low nitrogen requirement and good drought and dollar spot resistance. He seeded at 80 lbs. per acre for immediate turf development and

erosion control. The fairways were playable in 8 weeks. Oscar's crew usually mows fairways in the evening and leaves the clippings; recycling nutrients while reducing removal and fertilizer costs.

Oscar articulates it best: "The unique coloring of the 'Penn Pals' contrasts beautifully with the grassing around them, defining the target areas. And with the dew on the bents early in the morning, they're a marvelous work of art."

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Oscar L. Miles

Maples

Continued from previous page

intendent; and Joe became a pro and superintendent.

Dan grew up in the 1950s and '60s when Ellis was devoted to design. The result? Dan's an architect.

Dan recalls sitting in his dad's Jeep as Ellis staked out greens.

Ellis "taught me how to golf, how to hit every kind of shot — high shot, low shot. The only reason I didn't go into golf full-time was that I liked working in the summer instead of playing in tournaments. I always liked being on a job somewhere since I was 14. Before I had my driver's license I had my own farm tractor and I did all the floating. That was so much more satisfying although I love golf. But, if you spend half a day floating a green or a bunker, you're constantly looking at it, making little improvements. It's an obsession."

RECIPROCAL RESOURCES

Add the years of experience of the Mapleses and they have more than 300 years in the golf business. Imagine the shared knowledge at family gatherings.

"At Christmas we'd all go to Uncle Frank's and see him and Henson and Ellis, and Dad and we'd all play golf," Palmer Jr. said.

Dan added: "My dad and uncles ... lived it and breathed golf. [Their lives were] trying to be innovative and use the latest thing, always experimenting. My grandfather invented a seeder back in the 1940s because he didn't have the labor to do the job. It was just fascinating to be involved at that level."

"There is so much knowledge and talent in the family, I was hoping there would be a facility where one would be a pro, another a super, another the manager," said Willie.

"Dan has accomplished a lot of that," he added, referring to three courses Dan designed and owns — The Sound near the Virginia border; The Pit in Pinehurst, where Wayne is superintendent; and Longleaf Golf & Country Club, where Wayne's son David is superintendent.

Wayne points out that different climates and soils lessen the Mapleses' ability to share information. Yet they do draw on the knowledge at hand.

"It's easy to call on these family if you need any help," Joe said. "I've called Palmer Jr. and come to a solution. If I have a problem with a sandtrap I'll call my brother, Dan. And they call me from time to time."

"It's a sharing proposition. None of us think we know it all."

Willie related two instances when Palmer Jr. traveled to Philadelphia and worked with Willie and U.S. Golf Association agronomists to solve a problems.

And, more than once, Willie has called in Dan to advise developers on land sites for proposed projects.

"Dan's been very helpful helping me out with projects I've been involved with," Willie said. "And I can always call Joe and tell him I'm hooking the ball. He knows my swing. He knows the answer."

"My brother Joe has been the

'My dad and uncles... lived and breathed golf.'



— Dan Maples, son of Ellis

pro-superintendent at Boone for 34 years, so every time I get around him, I try to find out whatever I can from him," said Dan.

Will this Maples mania with golf continue into the younger generation?

Only to a limited extent.

While Wayne's son David is a superintendent, younger son Derek is a marine biologist. Children of the others have chosen different careers.

But Dan hints toward the future of his 10-year-old son Brad — Dan's only son among four children.

"He's grading roads and ponds in a huge sandpile. Exactly what I was doing at that age," Dan said.

Then this story:

"Brad was 6 and I had him with me at Longleaf on the 16th hole. I was explaining design. I had a cart path on the right; he said it should be on the left. That's where it is today."



A fourth-generation architect? Brad Maples works in miniature.

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CIRCLE #151/BOOTH #1114



Leslie on Public Golf '92

Continued from page 14

Here are some other comments.

APPROVALS AND CONSTRUCTION

"Two-thirds to three-fourths of the government officials in the country have never heard of the IPM (integrated plant management) approach and if they hear of it, they'll support it," said Stuart Cohen, president of Environmental & Turf Services.

"Golf courses will become important amenities in office, business park and development ven-

tures," predicted Fred Jarvis, a partner with LDR International.

"Golf course architects are necessities, not expenses," said American Society of Golf Course Architects Immediate Past President Tom Clark.

"When you cut money, don't fool too much with the greens, irrigation and drainage. If you're cutting 10 percent on everything, cut 15 percent of the clearing cost and leave the irrigation and drainage alone," said Jerry Pierman, president of the Golf Course Build-

ers Association of America.

"A lot of community work is involved. Get local lawyers, businessmen, *et cetera* involved. They'll work gratis," suggested architect Larry Flatt, who helps Midwest communities build golf courses cheaply.

"Install signs telling the public you're protecting the wetland or other sensitive area. It's good public relations," said Ron Boyd, president of Williamsburg (Va.) Environmental Group.

FINANCING

"The most active lenders now are proud to talk about financing 10 to 12 golf courses a year," said

Gary Gilson, a partner in corporate finance at Shook, Hardy & Bacon. "In the 1980s you could look at a financing package that had 10- and 20-percent equity, because the lender knew that equity was also supported by a very strong likelihood of real-estate appreciation... But everything has changed. The private-side financing picture now involves equity in amounts of 40 to 60 percent.

"Local banks with whom you have a banking relationship are probably your strongest prospects."

"Financing looks a lot better on the municipal side," said Tom

Boczar of Capital Links, the financing arm of Double Eagle. "But it's difficult to make the financing fit the situation. Lenders are getting more comfortable with alternative financing structures other than general obligation bonds.

"Build in as many profit centers as possible — teaching academies, golf cars, putting courses, short-play golf, food and beverage facilities, practice range, 18-hole golf, pro shop."

MAINTENANCE

"The major task is not interfering with play. Get the equipment and crew on the property and the jobs done quickly so all can be done by the time the public gets there," said Mel Lucas, former president of the Golf Course Superintendents Association of America and a turf agronomy consultant. He added: "Benches create maintenance problems and slow play... Make the course appealing with landscaping... Post an 'Aces' list."

"Superintendents say, 'We are the money-spenders. Others make it.' Change that [attitude]," said American Golf Corp. Regional Superintendent Dean Woshaski. "Involve the superintendent in the overall income of your course. He needs to know he's part of money-making ideas. We challenge our superintendents to be innovators and create income.

"We cross-train, have flexible hours — a change from the traditional eight-hour day. We work mornings and evenings to keep up production."

Scott Zakany of ISS Golf Services, which contracts out course maintenance, said: "We employ an aeration support team that aerates our courses, so the individual superintendent is not bothered by it. This also spreads the cost around between golf courses."

Regarding pesticide use, Royal Melbourne superintendent Tim Sedgely, former president of the California Golf Course Superintendents Association, said: "Work with the EPA [Environmental Protection Agency]. The hysteria doesn't come from the EPA but from the public. Work with them and they will help you with a plan."

"Turn over equipment before it starts costing you more than it's worth," suggested Peoria (Ill.) Parks District Director John Potts. "The type and condition of equipment will show on the golf course."

"Inform clients in advance of disruptive practices," suggested Tim Kelly, superintendent at Village Links of Glen Ellyn (Ill.). He added, "The driving range is the hole that will make the most money for you."

MANAGING FOR PROFIT

"The secret to success is your staff," Lesnik said, and recommended incentive programs to reward performance.

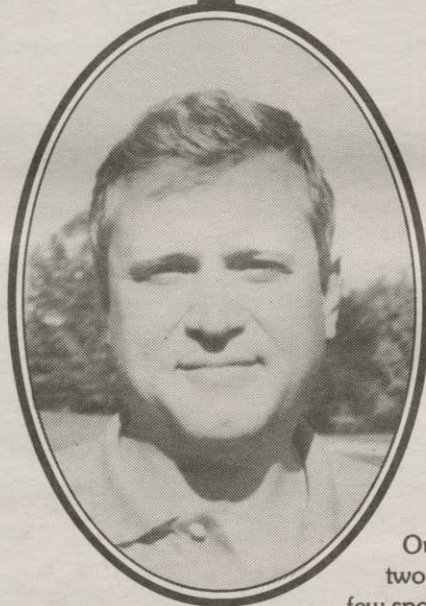
"Stay in touch with your customers," American Golf Corp. Senior Vice President for Golf Operations Ken James said, urging a yearly company-wide survey.

James also said: "Look at the traditionally weak playing times

summer PATCH

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**TOM
GRIMALDI**

— CGCS —

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For the New Jersey area you must start April 1st with 4-oz / M of BANNER and 2 to 3 quarts of Surf-Side per green. Our greens are 60% bent and 40% poa annua... they average 4 to 5000 sq. ft. We apply monthly for a total of 4 treatments. We mix on site in a 7 gal bucket and use a siphon hose proportioner. It takes about ten minutes to do a green... we don't water-in the treatment. If you have not been on a preventive program and develop SUMMER PATCH we'd suggest using 4 to 8-oz / M DUPONT 1991 plus a minimum of 1/2 gallon Surf-Side per acre, watered-in.

Our middle-of-the-month spray program varies, however, we use a minimum of 1/2 gallon of Surf-Side per acre with our tank mix which could include any of the following: Bayleton, Banol, Dacthal, 26019, Prograss.



(PAST HISTORY) DURING 1980 I treated one green with Surf-Side to learn something about the use of surfactants. We syringed the treated green a couple of times during the season, whereas, the rest of the greens required over 50 days of syringing... **that one green was incredible!** DURING 1981 We treated all the greens and only had to syringe a handful of times, maybe a dozen times all summer, and most of that on the high spots.

"80% to 85% reduction in syringing in the past 10 years has meant major water and labor savings."

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Continued on next page
GOLF COURSE NEWS

Building specifications

Continued from page 21

Jessup, Md., located just outside Washington, D.C.

"It would be a big help if we could all get on the same page with regard to bid schedules and specifications," said Spencer Holt, a staff architect in ASGCA President Art Hills' office.

Getting builders and architects to agree on bid schedules should be easier than specifications, according to GCBA Executive Director Phil Arnold.

Bid schedules list general areas of construction. They generally run three to four pages, acting as a sort of table of contents for the 30, 40 or more pages of specifica-

tions that follow.

While they may have different names, bid schedules include headings such as mobilization of manpower and equipment to the job site, layout and staking, erosion control, clearing, earth moving, shaping, drainage, irrigation, features (greens, tees, bunkers) construction, bridging, bulkheading, water features (ponds) development, cart paths, finish shaping, seed bed preparation, and grassing.

The builders committee submitted a first draft of a proposed bid schedule to Hills with suggested headings and items that would be included under each, MacDonald said.

One of the things all the committee members agreed on was the need for unit pricing instead of a lump sum charge for a

single bid schedule item, MacDonald said.

"Unit pricing allows a builder to accurately adjust his bid if changes are made. If an architect decides to lower a fairway two feet, you can show him how much that will cost," MacDonald said.

Another reason to concentrate on bid schedules before specs is the potential cost of omissions, Clute said. Changing specifications from one kind of sand to another, for instance, can be expensive. But it's a minor cost compared to suddenly discovering the whole features construction line has been left out of a bid schedule.

Builders are keenly aware standardizing specifications will be a more difficult task. Some areas will be impossible since sites vary widely and architects need room to be

creative. "You can't expect all bunkers to be three feet deep, for example," Clute said. Added MacDonald: "We're not telling architects what they can and can't do by trying to standardize specifications. We're simply offering information regarding things we know have worked in the past."

Still, there is tremendous room for standardizing certain items. Holt agreed. The architect estimated 70 percent of golf course construction is fairly consistent from job to job, leaving 30 percent to the whim of Nature, architect and developer.

"It's good builders realize we can deviate from the specifications if we come across unique circumstances where we can't use a standard practice. We don't want to be put in a box," Holt said.

Public Golf '92

Continued from previous page

and improve them, like giving a 30-percent discount from the rate on the green fee and cart combination."

Reid Pryor, golf administrator for the city of Indianapolis' 12 courses, said: "We have the staff involved in a very detailed customer service plan. Then, when it's in place, people come through the course as customers and give us feedback as to how we're performing according to our plan."

"Get the politicians involved. We show them our customer service plan, the benefits of quality golf, the impact on the city, our expenses, *et cetera*. They are now our greatest supporters."

"Use computers as cash registers. This helps keep account of who your customers are and how you can better sell," Potts said.

Kemper/Lesnik's vice president of marketing, Doug Schmidt, said: "The club pros are a marketing arm of our organization. They have a sense of ownership."

Schmidt suggested a course's exposure and image can be improved through the local media, charities and PGA affiliates, and added: "Go home and invite your local sports editor to play."

"We treat visitors like private clubs treat members," said Emerald Dunes owner Raymon Finch. "Don't be apologetic about a price. A price attracts a certain element."

Among Finch's suggestions: operate beverage carts on the course; price creatively; use volume cards; get name recognition using a billboard; use a marker at the tee to show pin placement; and start a beginners' league by converting the course into a beginner's layout on slow days.

Alfonso, co-owner of The Rail in Springfield, Ill., said: "Golf is an entertainment medium and should be fun. My concept with my staff is that people coming to The Rail have made a conscious choice (and maybe even created the finances) to spend money at our course. Show you care, by caring for the flowers, edging the grass, taking pride in the appearance of the entryway."

Alfonso is on radio daily, television weekly, and visibly supports the ballet, sports teams to charities in the Rail name.

Good advice — all.

What do you get
when more than
4,400 turf
managers switch
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Here are the USGA green construction recommendations:

SUBGRADE

- The subgrade need not conform to the proposed finished grade; the subgrade is to facilitate water movement to the drainage system. But, the surface of the gravel blanket layer must conform to the proposed finished grade.
- If the subgrade soil is unstable, a geotextile fabric may be used between the gravel blanket and the subgrade soil.

DRAINAGE

- Drainage trenches shall be a

New green specs: Simplifying procedures

minimum of eight inches deep.

- Drainage lines shall be not more than 15 feet apart.
- Clean-out ports shall be included off the back of the green (or at the high end of the drain line) for all main drainage lines.
- A perimeter drain line (smile drain) shall be installed along the low end of the gradient, usually along the front of the green.

GRAVEL

- Angular gravel is preferred (for stability and ease of shaping),

though pea gravel is acceptable.

- Gravel materials suspected of lacking mechanical stability to withstand common construction traffic should be checked with the LA Abrasion test — ASTM procedure C-131 (value should not exceed 40).
- Gravel materials of questionable weathering stability should be tested using the sulfate soundness test — ASTM procedure C-88 (not more than 12-percent loss by weight).
- A slight change in particle

size distribution for gravel where the intermediate layer is used. Previously, 100 percent required between 3/8 and 1/4 inch; now minimum 65 percent required between 3/8 and 1/4 inch, plus limits on percentages and sizes above and below this range.

- New recommendations developed for gravel particle size distribution for use with root-zone mixture where the intermediate layer is not used. Specific recommendations are based on the particle size distribution of the par-

ticular root-zone mix.

INTERMEDIATE LAYER

- The acceptable particle size range has been expanded. Now, 90 percent must fall between one and four millimeters (previously one to 2 millimeters).
- Need not be included if the properly sized gravel is used.

ROOT-ZONE MIXTURE

- The particle size range has been modified, allowing more fine sand (.15-.25 mm) but less very fine sand (.05-.15 mm).
- Provides guidelines for selection of peat materials (minimum of 85 percent organic matter by weight) and other organic composts (should be allowed to age for one year; must be shown to be non-phytotoxic; mix must meet physical properties).
- Provides guidelines for selection of soil component (if used). Soil component should have a minimum sand content of 60 percent and a clay content of between 5 and 20 percent.
- Some root-zone physical properties have been modified:
 - Total porosity: 35-55 percent (previously 35-50 percent).
 - Air-filled porosity: 20-30 percent (previously 15-25 percent).
 - Saturated conductivity (not included in the 1989 version).
Normal range: 6-12 inches/hour.
Accelerated range: 12-24 inches/hour.
 - Organic matter content: 1-5 percent (ideally 2-4 percent) by weight (not required in previous versions).

SEED-BED PREPARATION

- Sterilization required only 1) in areas prone to severe nematode problems, 2) in areas with severe weedy grass or nutsedge problems, or 3) when the root-zone mix contains unsterilized soil.

LABORATORY PROCEDURES

- A revised and expanded set of laboratory procedures has been prepared and sent to all soil-testing laboratories interested in testing materials for construction of USGA greens. Labs must agree to follow these protocols to be included on the list of soil-testing labs sent out by the USGA with the green construction booklet.

Foxfire opens

VIDALIA, Ga. — Foxfire Golf Club, a semi-private and daily fee facility, held formal public opening Oct. 24.

The par 72, 6,900-yard layout was two years in the shaping, integrating inhospitable wetlands, gently rolling hills and tall Georgia pines — terrain termed ideal for a golf course.

The project includes a residential development owned by Edward Herndon.

James F. Bivins, Dominion Engineering Group, designed the course. Jim Hoff, formerly at Cedar Creek in Aiken, S.C., is the PGA professional and general manager.

GOLF COURSE NEWS

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USGA expect specs to save money and time

Continued from page 1

determining the size gravel "best suited for the soil mix you've got," Snow said. "That could save you a lot more in construction, particularly in parts of the country where this gravel is hard to find, and also the time of putting in the intermediate layer — usually by hand."

"Now we have very specific, well-developed recommendations based on engineering specs, that tell you exactly what you need to avoid infiltration into the gravel bed."

A second major change is the range for acceptable particle sizes in the choker layer has been expanded from between 1 and 2 millimeters to 1 and 4 millimeters.

This is a big money-saver, Snow said.

"Builders have had to pay

maybe \$50 a yard to have the gravel sieved. And sometimes it had to be trucked great distances. One to four millimeters should work just as well, and in some cases maybe better.

"Our studies show it's an improvement in terms of agronomics — and cost-wise it will be much easier to find that material."

A third major change creates common protocols in laboratory procedures.

"The consensus is that this is the way to go," Snow said. "The

labs will agree to abide by these protocols, so we will have procedures that are better. Labs will have to retool a little bit. But they should have similar results."

Dr. Norm Hummel, associate professor at Cornell University, spent the 1991-92 school year on sabbatical leave with the Green Section to determine the reasons for laboratory inconsistencies and update and standardize lab procedures; and to review scientific literature and recommend modifications to specifications on green

'Now we have very specific, well-developed recommendations based on engineering specs, that tell you exactly what you need to avoid infiltration into the gravel bed.'

— Jim Snow, USGA Green Section



construction and sand-based root-zone mixtures.

An Advisory Committee of American and British experts gave input throughout the process.

"We've tried to get the best

minds working on this, to get a consensus on the best scientific knowledge today," Snow said. "Not everyone agreed on every tiny detail. But, overall, it was remarkable how much agreement there was."

Construction adds dimensions to Pavilion Lakes

SCOTTSDALE, Ariz. — Eight new holes, four new lakes and a stream have been added during the redesign and reconstruction of the newest championship golf course in the Valley, The Pavilion Lakes Golf Club and Learning Academy. Formerly Pima Golf Club, the 6,523-yard course is under new management and underwent extensive renovation for its November 1992 opening.

Vestar Development Corp. hired the golf management company of Vickers-Kopplin and Associates to manage the courses.

"Our goal is to provide the highest quality, most reasonably priced golf facilities found anywhere in the Valley," said Jeff Mongon, project director of Vestar Development Corp. "We contracted with Vickers-Kopplin because of their involvement with quality and service-oriented clubs like Desert Mountain and Desert Highlands. The customer will experience the benefits of their expertise at the golf course."

Niebur, Hurdzan work in Ohio, Ill.

ATLANTA — Niebur Golf, Inc. and Hurdzan Design Group have combined work on two projects.

The daily fee Ann Briar Golf Course, Waterloo, Ill., has been grassed. Steve Maas has been hired as grow-in superintendent. Opening is this summer.

Niebur and Hurdzan will build a daily-fee course in Ashville, Ohio. Construction began in June. Nine holes will be completed in October, with the second nine to be finished next summer.

Cook Creek will be owned by PGA Tour golfer John Cook and his family. Cook's father, Jim, is president of Championship Management Corp., which will manage the facility.

Comments like these:

"Poly-S has met and exceeded our expectations with its 12 week residual."

Dave Gilfoil, Superintendent,
HAYDEN LAKE COUNTRY CLUB,
Hayden Lake, ID

"Poly-S works great. We've eliminated one fairway application with it and plan on using it in the fall after a ryegrass overseeding."

John Hoofnagle, Superintendent,
VALLEY COUNTRY CLUB,
Aurora, CO

"A quality granular. Great spreadability."

Rob Stambaugh, Superintendent,
GLENVIEW GOLF COURSE,
Cincinnati, OH

"The membership at the club was complaining about tight lies in the fairway and wanted us to change the cutting height. The improvement in turf quality after applying Poly-S led many to believe we had raised the height of the cut."

Kevin West, Superintendent,
OLYMPIA FIELDS COUNTRY CLUB,
Olympia Fields, IL

"The best fertilizer we've ever seen on this place. Fairways look incredible!"

Joe Fordin, Superintendent,
ARTHUR PACK GOLF COURSE,
Tucson, AZ

After only one year, over 4,400 turf managers have switched to Poly-S technology, making it one of the fastest growing fertilizer lines in history.

The best thing about Poly-S is that it performs as promised. Its unique, patented multiple coating system assures higher nutrient efficiency (no unreleased nitrogen) and consistent, extended residual for better greening without surge growth. And because Poly-S offers

"We've been very impressed with the product's spreadability and uniformity."

Scott Buley, Superintendent,
COUNTRY CLUB AT ALISAL,
Solvang, CA

"I really like the color Poly-S gives my fairways and the even greening."

Randy Scafturon, Superintendent,
RIVERSIDE COUNTRY CLUB,
Chehalis, WA

"We have been very satisfied with Poly-S. It's given us consistently good performance with good, even color."

Pat Holt, Superintendent,
HUNT VALLEY GOLF COURSE,
Hunt Valley, MD

"Excellent response and longevity. We're very pleased with Poly-S."

Thomas Schlick, Superintendent,
MARRIOTT'S GOLF COURSE
AT WINDWATCH
Hauppauge, NY

"The results with Poly-S have been tremendous. I've never seen grass respond this well to anything else. The increase in density and color retention has been just amazing."

Scott Venable, Superintendent,
TAM O'SHANTER GOLF COURSE,
Canton, OH

the capability for selecting specific release rates, it has proven its effectiveness under a variety of agronomic conditions in every region of the country.

Poly-S is making a difference on courses nationwide, but the only proof that really matters is on your own turf. For more information about Poly-S fertilizers, contact your Scott Tech Rep today. Or call 1-800-543-0006.

"It's working even better than we expected. With applications in late January and May, we're seeing a 65 to 75-day residual."

Jeff Kidder, Superintendent,
MARRIOTT'S CAMELBACK
GOLF CLUB,
Scottsdale, AZ

"The new Poly-S fertilizers are more economical and have a higher nutrient availability"

William Twig, Superintendent,
THE WITCH,
Myrtle Beach, SC

"Poly-S is a good product. It spreads real nice and holds color real well. The residual lasted three months for us."

Scott Fischer, Superintendent,
JUPITER ISLAND COUNTRY CLUB,
Hobe Sound, FL

"Poly-S spread so easily that our application rates required downsizing"

Brian Conklin, Superintendent,
GRAYLING COUNTRY CLUB,
Grayling, MI

"I really like Poly-S. It gives you slow, lengthy release and good greening. And the spreadability is great. No dust, no odor problem. It performs well with the extreme temperatures we get here in the desert."

Bill Rohret, Superintendent,
SUNRISE COUNTRY CLUB,
Las Vegas, NV



Poly-S Technology

NAME THAT WEED



Yellow nutgrass is just one of many weeds that Pennant® prevents. So now you can choke out your worst weeds without beating up on ornamentals and warm-season turf.

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CIRCLE #156/BOOTH #1603

U.S. Courses Newly Approved

Location	City	Course Name	Type	No. of holes	Class	Work	Contact
Alabama							
	Chatom	N/A	D	18	R	N	Milton Schell
	Phenix City	Beaver Creek GC	N/A	N/A	N/A	N	Wm. Murphy
Arizona							
	Payson	Ponderosa	P	18	R	N	Graham/ Panks Int'l
California							
	Camarillo	Spanish Hills Golf & CC	N/A	18	R	N	Robert Cupp
	Escondido	Escondido Muni GC	M	18	R	N	David Rainville
	Escondido	Eagle Crest CC	D	18	R	N	D. Rainville
	Fremont	N/A	M	N/A	E	N	Leisure Serv. Dir. Jack Rogers
	Fullerton	East Coyote Hills	D	18	R	N	Cal Olson
	San Marcos	Twin Oaks Valley Ranch	D	18	R	N	N/A
Colorado							
	Canon City	N/A	M	18	R	N	City Council
	Lafayette	Lafayette GC	D	18	R	N	Hale Irwin
	Steamboat	Cornerstone GC	N/A	N/A	R	N	Dye Designs
Connecticut							
	Madison	Braemor	P	18	R	N	Steve Smyers
	Middlefield	Lyman Meadow GC	N/A	18	R	N	Gary Player
Florida							
	Hernando Cty.	World Woods	N/A	72	R	N	Sugarmill Woods Inc.
Georgia							
	Columbus	Maple Ridge	D	18	R	N	Mike Young Designs
Hawaii							
	Kailua-Kona	Kealakehe GC	D	18	R	N	Jack Snyder
Illinois							
	Morrison	N/A	P	9	R	N	Ron Vegter
	Tuscola	N/A	M	18	R	N	Blue T Golf Dev. Co.
Indiana							
	Covington	Rivercrest GC	D	18	R	N	Brad Crain
	Evansville	Evansville CC	P	18	R	R	Ron Kern
	Southbend	Blackthorn GC	D	18	R	N	City Redeve- lopment Dept.
Maryland							
	Edgewater	South River Colony	N/A	18	R	N	Friendswood Development Co.
Michigan							
	Allendale	The Meadows	D	18	R	N	Mike Hurdzan
Minnesota							
	Grand Rapids	The Lodge at Sugar Lake	D	18	R	N	The Lodge at Sugar Lake
Missouri							
	St. Peters	St. Peters Muni GC	M	9	R	A	AGC
	Sunset Hills	Tapawingo Nat'l GC	D	27	R	N	Gary Player
Montana							
	Bozeman	N/A	D	18	R	N	Mac Hunter
New Jersey							
	Bernards Twp.	N/A	P	27	R	N	Gary Player
	Vernon	Wolf Paw	N/A	18	R	N	Sussex Valley Dev. Co.
New York							
	Silver Lake	Silver Lake CC	P	9	R	A	Chet Kurczab
Oklahoma							
	Stillwater	Oklahoma State Univ. GC	D	18	R	N	Tom Fazio
Oregon							
	Bend	Sunriver	D	18	R	N	Bob Cupp/ John Fought
	Eagle Point	Alta Vista	N/A	18	R	N	Greg Adams, Medford
	Jefferson	Enchanted Oaks	N/A	18	R	N	Browns Island Inc.

DEVELOPMENT

U.S. Courses Newly Approved

Location	City	Course Name	Type	No. of holes	Class	Work	Contact
	South Salem	Creekside Golf Club	P	18	R	N	Hawaii N'west Ventures
Pennsylvania							
	E. Huntington	Wyndon Links	N/A	9	N/A	N	Paul Yelinek
	Pittsburgh	Diamond Run GC	P	18	R	N	Gary Player
South Carolina							
	Rock Hill	Waterford	N/A	18	R	N	Hale Irwin
Texas							
	Dallas	Timarron	N/A	18	R	N	Finger Dye Spann
	Dallas	Four Seasons TPC at Las Colinas	D	18	R	R	Golf Resources Inc.
Virginia							
	Strafford	Augustine North GC	D	18	R	N	Lester George
Wisconsin							
	Waunakee	Royal Lochan	D	18	R	N	R. Ranguette

U.S. Courses Newly Planned

Location	City	Course name	Type	No. of holes	Work	Contact
Arizona						
	Scottsdale	Scottsdale Core North	N/A	36	N	Gregg Tyrhus
	Sun City West	Sun City West	N/A	18	N	Del Webb Dev. Company
	Tucson	Stouffer Pima Canyon D	18	N		Foothill Resort Properties Ltd.
California						
	Carlsbad	Calavera Muni GC	M	18	N	Rec. Dir. Dave Bradstreet
	Fresno	N/A	N/A	N/A	N	Little Castle Drafting Service
	Fresno	Farmworld USA	D	18	N	Dick Ailanjian
	Fresno	Ball Ranch	N/A	18	N	Sienna Corp.
	Goleta	N/A	D	18	N	Ben Crenshaw
	Hayward	N/A	N/A	18	N	Amador Land & Cattle Ltd.
	Knights Ferry	Wildcat Creek GC & CC	N/A	27	N	John Williams
	Norco	Silverlakes	D	18	N	Cal Olson
	Ojai	N/A	P	18	N	Pete Dye
	Orinda	Gateway Valley	N/A	18	N	Pacific New Wave Corp.
	Pismo Beach	N/A	N/A	18	N	Keith Foster
	Pleasanton	Kottinger Hills	N/A	18	N	Chang Su-O
	Palos Verdes	N/A	N/A	18	N	Lin/Ted Fairfield
	Redwood City	N/A	D	18	N	Pete Dye
	Riverside	Olympus GC	D	18	N	Corado Co.
	Santa Cruz	N/A	N/A	18	N	Wayne Wittig
	Santa Maria	N/A	D	18	N	Parks & Rec. Airport Dist. Bd.
Colorado						
	Westminster	N/A	N/A	N/A	N	City Council
Connecticut						
	Seymour	N/A	N/	18	N	Chris Bargas
Florida						
	Hobe Sound	Summerfield	D	18	N	H. Jacobsohn
	Pembroke Pines	SilverLakes	N/A	18	N	Rusty Witt/ SilverLakes

Continued on next page

NAME THAT WEED



Crabgrass is just one of many weeds that Pennant® prevents. So now you can choke out your worst weeds without beating up on ornamentals and warm-season turf.

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CIRCLE #157/BOOTH #1603

NAME THAT WEED



Goosegrass is just one of many weeds that Pennant® prevents. So now you can choke out your worst weeds without beating up on ornamentals and warm-season turf.

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CIRCLE #158/BOOTH #1603

U.S. Courses Newly Planned

Continued from previous page

Location	City	Course name	Type	No. of holes	Work	Contact
Georgia						
	Griffin	N/A	N/A	21	N	Ga. Experiment Station
Idaho						
	Priest River	Priest Lake GC	D	9	A	Priest Lake GC Inc.
	Pullman	N/A	M	18	N	City Supervisor John Sherman
Illinois						
	Chicago	N/A	D	18	N	Dick Nugent
	Gurnee	N/A	M	18	N	Mayor R. Welton
	Moline	N/A	N/A	18	N	Steven Goforth
	Tuscola	N/A	M	18	N	City Atty. Mike Carroll
Indiana						
	Pakota Lake	Tillery Hill	D	36	N	Pakota Partners
Iowa						
	Cedar Rapids	N/A	M	18	N	Parks Dir. Dave Holstad
	Neola	Quail Run CC	N/A	N/A	N	Lon Ring
Kansas						
	Lawrence	N/A	M	18	N	Richard Caplan & Assoc.
Kentucky						
	Franklin	N/A	D	18	N	Kenny Perry
	Henderson	Hoge Farm	N/A	18	N	Jim Adler, Evansville
Maryland						
	Ocean City	Lighthouse Sound	N/A	N/A	N	Mayor R. Powell
	Owings Mills	Greens of Owings Mills	D	18	N	Lindsay Ervin & Assoc.
Massachusetts						
	Boxford	Far Corner GC	N/A	9	N	Bill Flynn
	Lee	N/A	M	18	N	Golf Investment Advisers
	Southwick	Sunnyside Ranch	D	18	N	David Hall
	Waltham	N/A	D	N/A	N	Met State Task Force
Michigan						
	Glen Arbor	Homestead Resort	D	18	N	Bob Walker
	Pontiac	Pontiac Muni GC	M	18	N	City Plan. Dir. Owen Winnie
Minnesota						
	Edina	Braemar Park	M	9	N	City Parks Dept.
	Owatonna	Hidden Creek GC	N/A	18	N	Dean Hartle
Missouri						
	Branson	Branson Hills	N/A	18	N	Bill Stoner, Springfield
	Independence	N/A	D	18	N	Space Center of Kansas City
	St. Louis	N/A	D	27	N	Mid-America Golf Mgt. Inc.
Montana						
	Butte	Anaconda's Old Works	D	18	N	Jack Nicklaus
	Whitefish	Montana Valley Club	N/A	N/A	N	City Council
Nevada						
	Carson City	N/A	D	18	N	Mayor M. Teixeira
	Mesquite	Painted Hills	D	18	N	Cal Olson
New Jersey						
	Egg Harbor Twp.	N/A	N/A	18	N	Township Adm. Peter Miller
	Jersey City	Liberty State Park	D	18	N	Planning Comm. Brian Ault
	Pleasantville	Green Tree GC	M	9	A	

DEVELOPMENT

U.S. Courses Newly Planned

Location	City	Course name	Type	No. of holes	Work	Contact
	Vernon	Evergreen	D	27	N	Great American Recreation Inc.
	Vernon Twp.	Wolf Paw	N/A	1	N	Sussex Valley Dev. Co.
New Mexico						
New York	Las Cruces	N/A	D	N/A	N	City Council
	Croton-on-Hudson	Prickly Pear Hill GC	N/A	18	N	Bus Assoc.
North Carolina	New Windsor	N/A	N/A	18	N	Steve Esposito
	Chapel Hill	Governor's Club	P	9	A	Jack Nicklaus
Ohio	Winston-Salem	The Meadowlands	P	18	N	Hale Irwin
	Barberton	N/A	N/A	18	N	Craig Schreiner
	Lebanon	N/A	N/A	27	N	Donald Likes
	Macedonia	N/A	D	18	N	Rec. Dir. John Houser
	Massillon	N/A	M	18	N	John Robinson & Assoc.
	Pennsylvania					
	Middlesex Twp.	N/A	D	18	N	Southeastern Club Mgt. Inc.
	Summit Twp.	N/A	P	18	N	Hamot Develop.
South Dakota						
Texas	Deadwood	Black Hills Convention Ctr.	D	18	N	Dan Costner
	Tyler	N/A	M	18	N	Rec. Dir. Larry Morgan
Vermont						
Washington	Stratton Mt.	Sun Bowl	D	18	N	Stratton Corp.
	Bellevue	N/A	N/A	18	N	King Cnty.Bldg. & Land Dev. Div.
	Camas	Green Mountain Resort	D	18	N	Paul DeBoni
	Duvall	N/A	D	18	N	King County Environmental Div.
	Four Corners	Elk Run GC	D	9	A	Daryl Connell
	Lincoln City	Timbershores GC & CC	D	18	N	Robert Cupp
	Pasco	N/A	M	18	N	City Mgr. Gary Crutchfield
	Ridgefield	N/A	D	18	N	Port of Ridgefield
Wisconsin	Vancouver	N/A	N/A	18	N	Marla Jenkins
	Fond du Lac	Rolling Meadows GC D	9	A	County Parks Dept.	
	Grafton	CC of Wisconsin	D	18	N	Wellington Golf
	Lake Geneva	Geneva GC	D	18	N	Geneva Nat'l Golf Resort
	Milwaukee	Bender Park	M	18	N	Assoc. Parks Dir. Steve Grabow
	Sturtevant	Corporate Green	D	18	N	Joseph Mrazek

Golf Course News publishes these lists monthly from our sources, and with the assistance of Forecast Golf Marketing Financial Systems Inc. of Richmond, Va. The lists include courses that have been planned or approved around the country during the past month. We would appreciate your help in

updating this section by contacting Golf Course News, P.O. Box 997, Yarmouth, ME. 04096 Under "Type" — D=Daily Fee, P=Private, M=Municipal. Under "Class" — R=Regulation, E=Executive, P=Par 3. Under "Work" — N=New, R=Renovation.

NAME THAT WEED



Bluegrass is just one of many weeds that Pennant® prevents. So now you can choke out your worst weeds without beating up on ornamentals and warm-season turf.

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CIRCLE #159/BOOTH #1603



Best of the Best

Golf Course News
proudly presents its
design, construction
and maintenance
awards for 1992.

Best Maintained Course
on the Senior PGA Tour

The pros go with Cochise

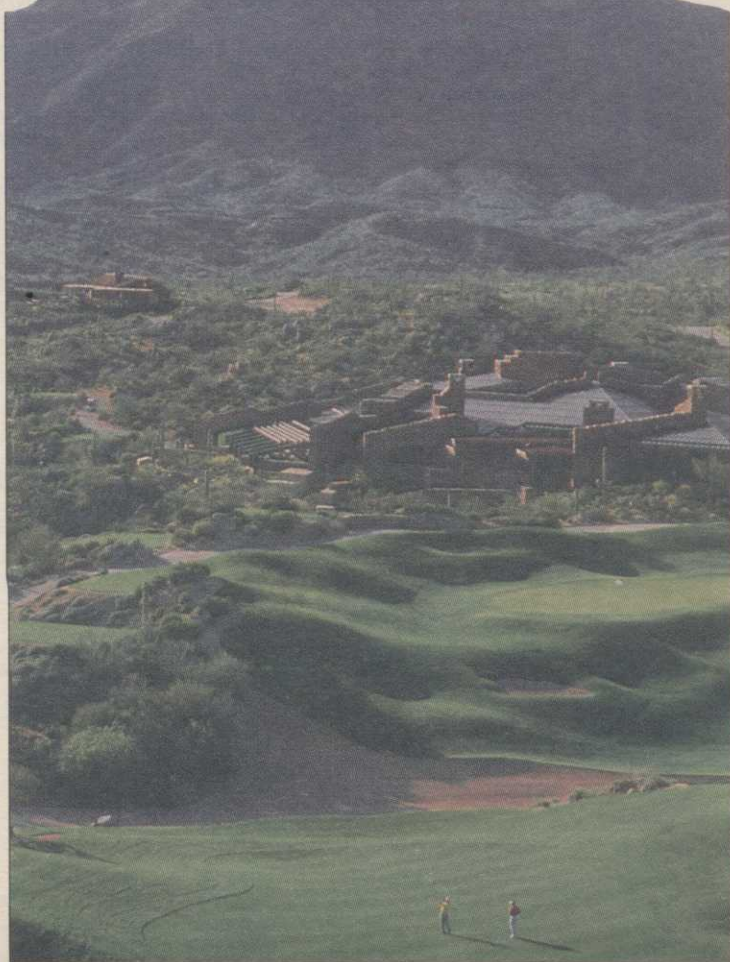
By HAL PHILLIPS

SCOTTSDALE, Ariz. — Virgil Robinson knows a little something about preparing a golf course for finicky players.

He's currently director of agronomy and maintenance at Desert Mountain, whose Cochise Course annually plays host to the Senior PGA Tour event, The Tradition. In a poll conducted by *Golf Course News*, Cochise was chosen by Tour players as the best maintained course on the senior circuit.

However, Robinson came to Desert Mountain from the Burning Tree Club, known around the Washington, D.C. as the Golf Course of Presidents. He matriculated to Burning Tree from the 36-hole facility at Andrews Air Force Base, where military types walked the course as they might conduct

Continued on page 58



No. 9 at Desert Mountain's Cochise Course.

Best Developer of Golf Communities

Nation's architects and builders choose Arvida

By KENT R. DAVIES

Industry leadership was key in determining the nation's Best Developer of Communities, as voted by architects and builders in an exclusive *Golf Course News* poll.

Competition was fierce, but Arvida of Boca Raton, Fla. came out on top of the 24 developers which received votes. Multiple votes were also garnered by Branigar Organization; J.H. Chaffin & Jim Light; Greenwood Development Corporation; Don Nicewonder; Bob Hardy and Crescent Resources.

Arvida garnered peer commendation for being a "great benefactor of golf," according to Gary Linn — vice president at Robert Trent Jones II International — who worked on Arvida's Weston Hills Country Club project in Fort Lauderdale. Linn stressed Arvida's industry leadership in making "golf always an integral part of their communities. They've allowed their golf courses to start becoming golf courses again.

"Arvida's courses are a statement for the whole community aside from those lots fronting the golf course," Linn continued. "When you first drive into Weston Hills, for instance, there's a big, open landscape of golf and water with the houses set way back. You come up to and enter the club without seeing a house. The housing is around as you play the course, but it isn't like driving past garages and driveways like you see in many developments."

Weston was one of the first developments with double fairways,

Continued on page 60

When it comes to covering a lot of ground, the competition isn't the only thing

Landscapes Unlimited unseats Wadsworth

By MARK LESLIE

"Above and beyond the call of duty." According to clients, that exemplifies the work of Landscapes Unlimited Inc., the Lincoln, Neb.-based firm that has been named Golf Course Builder of the Year for 1992 in a *Golf Course News* poll.

This year GCN followed its annual poll of golf course architects and builders by surveying clients of the firms that had been nominated for the award. Landscapes Unlimited received extraordinarily high marks, as did Wadsworth Golf Construction Co. of Plainfield, Ill.; American Golf Course Construction, Inc., of Plano, Texas; Fairway Construction of Temecula, Calif.; Guettler & Sons, Inc. of Fort Pierce, Fla.; and Kenova Construction Co. of West Palm Beach, Fla. Wadsworth had won the award the first three years.

The award is "something I and my people will be very proud of," said Landscapes Unlimited principal William Kubly. "We work very hard to do quality work — whether it's a \$1 million or \$8



Bill Kubly

million job, and it means a lot to be recognized by the people we work with every day."

Although Kubly created the company in 1976, Landscapes Unlimited's growth has been almost explosive the last several years.

"We had a 23-percent increase in business in 1992 — our best volume ever," Kubly said. "We're doing 80 percent more work now than four years ago."

With that growth has come a larger labor force — ranging from 150 in the winter months to 350 — and an increase from three to five project managers. Traveling the country directing construction are Kirk Kyster, Mike Oliphant, Roy Wilson, Bob Ryan and Roger Hodges.

They oversaw the building of seven golf courses that opened in 1992 and another eight that

Continued on pages 58

It's Hammock Dunes & Ocean Course

By KENT R. DAVIES

"Peer recognition is the most gratifying of all. It's a great honor." This summed up Tom Fazio's feelings upon learning that his Hammock Dunes design in Palm Coast, Fla., had been named the Best Seaside Private Course to open in the last five years.

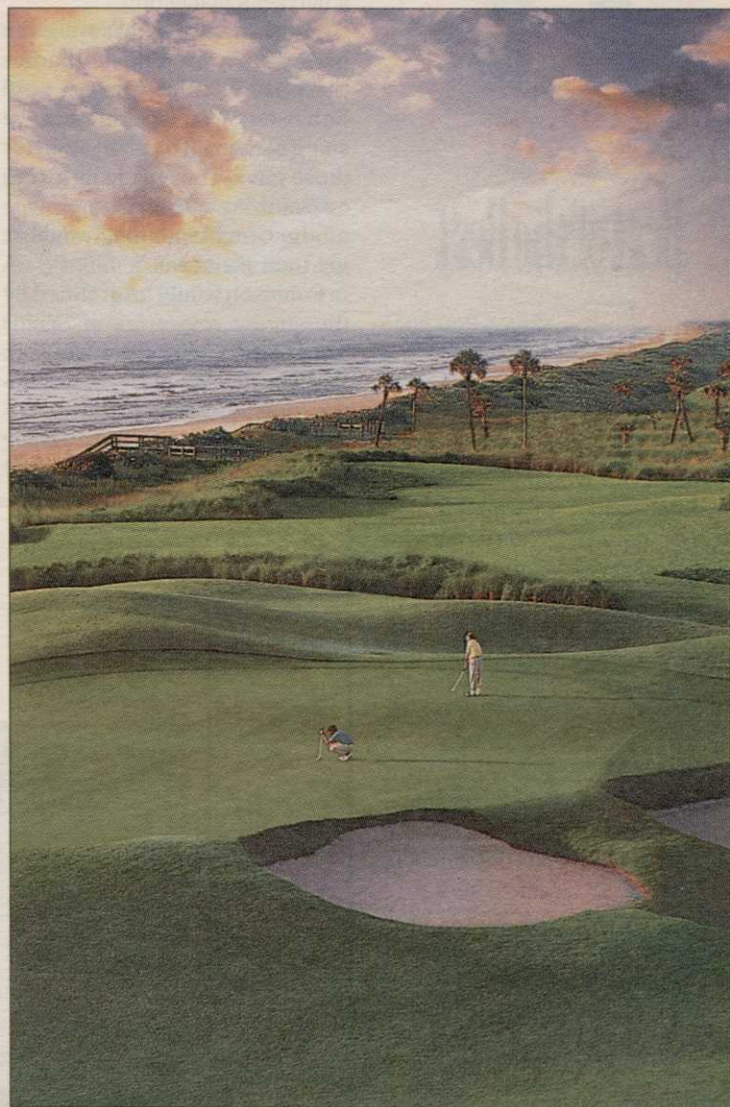
And Pete Dye "loved it" upon learning that his Kiawah Island Ocean Course in South Carolina won top honors as the Best Seaside Resort/Public Course. Both awards were determined by the votes of architects and builders nationwide, as surveyed by *Golf Course News*.

Tom Fazio's Pelican Hill placed second in the resort/public course category with Robert Trent Jones, Jr. nabbing third for The Links at Spanish Bay.

"Variety" and "a very natural look" are phrases often heard by Dan Malizia, head golf pro at Hammock Dunes, when his members and their guests describe completed rounds. These are just the descriptions Tom Fazio loves to hear, because he wants his courses to be unique. "I want them to look like they've been there a long time," said Fazio. "To appear to fit so well, it must not have been a big job to design — no matter how much dirt had to be moved."

Variety is a major tenet of any

Continued on pages 59



A striking sky frames no. 18 at Hammock Dunes, a Tom Fazio design.

that trails behind the Cushman® Turf-Truckster.™



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Cushman 5th Wheel Implements provide the highest capacities available to meet the demands of intense turf maintenance practices. They are exclusively designed

to keep ground pressure to less than 12 psi. When you have to aerate, haul, dump, spray, spread or top dress, no one offers more capabilities than Cushman. No one!

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CIRCLE #160/BOOTH #2802



Best of the Best

Landscapes

Continued from page 57

are still under construction.

One of Landscapes Unlimited's clients was Woodbine Development of Dallas, for whom it built Hill Country Golf Club as part of a destination resort in San Antonio.

"We're a very demanding client and expect a 110-percent effort. They [Landscapes] provided that on every front. They were absolutely great in every respect," said Woodbine's Mike Koesling.

George Kirshbaum of East-West Partners in Chapel, N.C., for whom Landscapes Unlimited built a course for the Uwharrie Point development in Denton, N.C., said: "There are a few people you work with in business you know are a cut above in their approach to accomplish their work. I feel Landscapes Unlimited falls into that group. It's more than just 'getting it done' to them. In a corporate culture, you either have it or you don't. They were as much concerned about what ultimately happened on that golf course as we were."

"We have found that the fact we do good quality enables us to stay busy when others not doing that kind of work might not be," Kubly said. "We were low bidder on only two of the projects we're doing now."

Kubly said much golf course construction has "settled back down into the \$3.5 million range. For a time we had \$5 million and \$6 million jobs, but money has gotten a little tighter, and developers are wiser." Design, he said, "went from who could build the most difficult course — and that's what the clients wanted — back to the traditional, classic and playable courses." In his 23 years in the business, the major advance in golf course construction is the U.S. Golf Association's refinement of construction qualifications, Kubly said. "You're getting a lot better golf than 10 years ago."

While also pointing to major advances in irrigation systems, he said earth-moving equipment is nearly the same.

"We do use a lot of smaller, detail equipment today, all the way down to the sandtrap rakes for smoothing our greens," Kubly said. "And we're using backhoes and grade-alls to do the detail bunker work, especially on high-end designs with bigger budgets."

Although he would like to see controlled growth for his firm of five to 10 percent [in total dollars] every year, Kubly said: "We still want it to be fun. And when I get running ragged and my project managers feel run ragged, that's too much."

Robinson & Co. chosen by Seniors

Continued from page 56

a barracks inspection.

"I'd say the general's were the hardest to please, much harder than the senior pros," said Robinson. "You wouldn't believe some of the stuff we had to do for those guys. They made us go out on Saturday mornings and wipe off the benches so they wouldn't get their pants wet."

Robinson would be gratified by the survey responses of Senior Tour players, who chose the Jack Nicklaus-designed Desert Mountain over the second-place winner, The Vintage Club. Bruce Crampton, for example, praised

Cochise by saying "It is a treat to be able to play a golf course as well conditioned as this." Jim Ferree added that Desert Mountain routinely sports "perfect greens and fairways."

Robinson oversees all the maintenance at Desert Mountain's three courses: Cochise, Geronimo and Renegade. Each track has its own superintendent, who answers to Robinson. Ron Ruppert was superintendent at Cochise for the 1992 tourney, but has since moved on to another Nicklaus project underway in Santa Fe, N.M. Scott Krout has taken his place.

"We are well blessed with a

great staff, 60 percent of which is Hispanic," said Robinson. "These people really take maintenance to heart. They take care of it like it was their own lawn."

The staff at Cochise gears the maintenance schedule around the tournament date, which falls annually near the end of March or early April. Unlike many Southwestern tour sites, which must jump-start the growing process to accommodate mid-January tournaments, Cochise is fortunate in the calendar department.

"We're coming out of the non-growth period after the 1st of March, which is good for our ryegrass overseeding," Robinson explained. "In the turf areas, bent and rye are the easiest to main-

tain during that time of year.

"Our basic concern — in fact, our biggest fear — is getting a heavy rainstorm because it can destroy the DC [decomposed granite] areas."

The DC areas at Cochise are essentially desert, waste/transition zones used for drainage. It's important to keep the drainage in prime condition all year around, said Robinson, because you never know when a heavy downpour might occur.

"We really rely on the DC areas for water run-off," he said. "Usually, at that time of the year, we have a pretty major rainstorm within two weeks of the tournament. Hopefully it happens early and you can recover."

BENTGRASS

Word is spreading almost as fast as our bentgrasses.



Mr. K. Harada, Greenskeeper
Yamaoka Country Club
Gifu, Japan



David Fleming, Project Manager
Mt. Woodson Country Club
Ramona, California



Bob Adler, Dir. of Golf Course Operations
Andy Adler, Golf Course Superintendent
Seasons Ridge Golf Course, Eldon, Missouri



Ian Grimshaw, Golf Course Superintendent
Coolangatta Tweed Heads Golf Course
Queensland, Australia



David A. Hein, Golf Course Superintendent
"The Experience at Koele"
Lanai City, Hawaii



Tom Fazio

Architect of the Year

Like clockwork: Fazio wins fourth straight

By MARK LESLIE

Tom Fazio kept the "fun meter" turned up in 1992, riding the crest of a continuing abundance of gorgeous properties, talented staff, and his own extraordinary skill to a fourth consecutive *Golf Course News* Architect of the Year selection.

Since *GCN* began the annual voting in 1989, Fazio has won the honor each year, designing such award-winning courses as Black Diamond and Emerald Dunes — voted, in a *GCN* poll, the best private and public golf courses, re-

spectively, to open in the last five years. Pelican Hill was named this month by *Golf Digest* as the best new resort course for 1992 and Shadow Creek was *Golf Digest's* best new private course in 1990.

Roger Rulewich, Robert Trent Jones Sr.'s architect in charge of designing the 17 planned courses on the Jones Trail in Alabama, finished second in the nationwide balloting of golf course architects and builders. Art Hills of Toledo, Ohio, tied for third with the team of Jay Morrish and Tom Weiskopf.

Reflecting on winning his fourth

annual award, Fazio said: "My staff and I all work hard. What we've done in the past keeps us going. We know we can do it better, and that's the new challenge — that's exciting."

Fazio lauded his "golf-fanatic" staff, including senior designers Andy Banfield, Dennis Wise, Tom Marzolf, Jan Beljan and Tom Griswold and construction coordinator Blake Bickford.

"Limiting our amount of work [about five courses open each year] and creating these individual, unique experiences on



Best of the Best

each golf course, keeps us going and keeps it fun and exciting," he said. "It's never boring because no two courses or pieces of land are the same."

"Probably the most difficult part of these awards are that it's embarrassing to some degree because the focus is on me," Fazio said. "But, obviously, there are so many people involved. My associates have the hands-on, day-to-day effort and involvement. Then there are our clients, landscape and clubhouse architects, and planners — many people."

The Fazio design team — working out of Hendersonville, N.C., and Jupiter, Fla. — had five courses open in 1992: Pelican Hill's Ocean Course in Newport Beach, Fla.; Walt Disney's Osprey Ridge in Orlando, Fla.; Uwharrie Point in Denton, N.C.; Treetops in Gaylord, Mich.; Two Rivers Club at Governor's Land in Williamsburg, Va; and the front nine of Black Diamond's Ranch Course in Lecanto, Fla.

Osprey Point, in Disney's Bonnet Creek golf complex, and Pelican Hill on the Pacific Ocean both opened early in the year to critical acclaim. Of Uwharrie Point, he said its "variety, character and setting are world-class all the way."

Part of a golf community built along a large lake on a peninsula, Uwharrie Point is blessed with a ridge running through its center.

Fazio said this allowed the course to "traverse on one side, along this spectacular long-range view of this magnificent lake. Over the ridge to the other side of the peninsula, its holes go parallel with great views of this lake but with a totally different style and land form. We moved holes to give variety in length and form, doglegs, shadows, sun angles, and contour variation."

He also gave high ranks to Treetops. "I always thought Pinehurst [N.C.] was maybe one of the easiest places to build great golf in terms of actual construction techniques. When you have rolling terrain, tree cover and sandy soils, you have the basis for quality golf without an expensive construction program and it's pretty easy to do."

In all of these projects, money is the key player, Fazio said.

"You always have to be concerned about budgets," he said. "Despite ideal conditions, there's always the dollar standpoint. You try not to compromise. But the real world is that it has to be done in a realistic program. And dollars are the guiding light."

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Maplegate Country Club
Bellingham, Massachusetts



Steven A. Nash, Golf Course Superintendent
International Town & Country Club
Fairfax, Virginia



James Brown, Golf Course Superintendent
Shreveport Country Club
Shreveport, Louisiana

Arvida gets the nod from builders and architects

Continued from page 56
not all single fairways.

Johnston Golf Design Group's Clyde Johnston said he's proud of his association with Arvida in developing their Jacksonville Golf & Country Club. He found Arvida personnel "extremely conscientious with the quality of their product and their sensitivity to the environment."

Arvida was "really interested in protecting the environment and not just following the book of the law. They didn't try to get away with anything. They hired all the proper consultants and worked their way through the permitting

process."

Arvida doesn't just develop lots, according to Johnston, but expertly builds in the feeling of belonging to a real community. "They put a greater emphasis on community than a lot of developers who just go out and build a subdivision and put a golf course in to sell lots," he said. The Jacksonville course recently received an award from the Southwestern Builders Association as best recreational community.

Linn noted that Arvida "has the equation worked out. They bring a lot of experience with them. They let the golf course at Weston Hills become the center piece of the

community." Linn said he values both the integrity and ambience of Arvida's golf courses. They have an inherent value within the community and independent of it, he said.

Linn also likes Arvida's "intent that each project have a different identity by using different architects. Even when they do multiple courses in a project they use different architects for each course."

Clyde Johnston and Gary Linn both found their association with Arvida to be a valuable learning experience. Johnston, a land planner, now incorporates this

sense of community in other projects by convincing the developers that this community effort works.

Johnston said he also found the people at Arvida "to be a lot of fun to work with. They were nice people and they respected my opinion. They all worked well together."

In an age of *total quality management*, tight financing for golf communities, and fierce competition, Arvida has been recognized as a leader by understanding what more and more Americans value in the 90s — a sense of total community and environmental sensitivity.



Best of the Best

By the seaside

Continued from page 57

Fazio design and "Every golf project and hole must be special," he said. "That's our job and people expect it." At Hammock Dunes, Fazio faced a challenge in creating unique settings for each hole because the land forms were the same in many areas. Even though he designs up to 90 holes a year, Fazio said he "can't imagine doing any two alike. It would be boring and not any fun to go to work."

Greg French, head golf pro at the Ocean Course, found his association with Pete Dye to be a match made in heaven. Because Dye had previously worked with the folks at Kiawah, Dye was considered "basically a part of us," said French. "Pete literally begged to design it."

French finds the most unique thing about Dye's work is his disdain for blueprints-driven design. He moves to each site during construction and prefers being called a builder or even a foreman. French often observed Dye "dropped to his knees, smoothing the sand."

The Ocean Course presented special challenges not many designers face. It's bounded by beach front and natural marsh areas, creating special erosion and habitat protection problems. The sand dunes, reconstructed to their specifications following Hurricane Hugo, are covered by sea oats and other natural vegetation planted by migrant workers, who were put out of work in the fields by Hugo's destruction.

Dye said his greatest pleasure comes from the U.S.G.A and Clemson University, both of which consider the Ocean Course one of the most environmentally sensitive golf courses in America. Dye protected the sensitive marshes by running pipe down the middle of every fairway and recycling the water and chemicals to an irrigation lake for storage. This system, at little cost, self-contains the chemicals within the property while recycling 90 percent of the rainfall.

Tom Fazio's big opening this spring will be The Virginian in Bristol, Va. He describes it of "Hammock Dunes and Shadow Creek quality."

Pete Dye has just finished the Speedway Golf Course inside, of all places, the Indianapolis Speedway. Calling it "the damndest thing you've ever seen — with telephone poles, inexpensive housing, and railroad tracks on one side, and the race track on the other." Dye's next hands-on project will be on the southside of Pittsburgh at the Menacolin Resort.

GOLF COURSE NEWS

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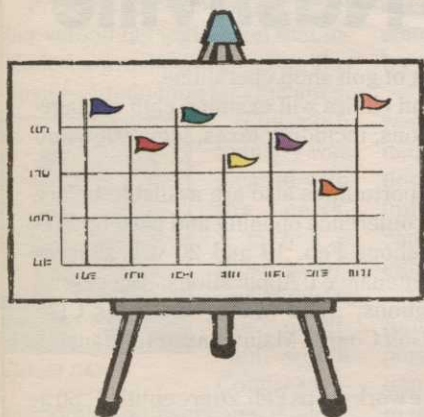
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PALMER MOVES OFFICE

ORLANDO, Fla. — Arnold Palmer Golf Management Co. has moved its corporate offices to Arnold Palmer's Bay Hill Club here. Part of the Bay Hill Lodge was converted into offices for the APGMC staff. The new address is Arnold Palmer Golf Management Co., 9000 Bay Hill Blvd., Suite 300, Orlando, Fla. 32819; telephone 407-876-6700.



Arnold Palmer

PRESTWICK BUSY

Prestwick Golf Properties Ltd. recently participated in the sales of Westport Golf Club in Denver, N.C., Carolina Springs Golf Club in Fountain Inn S.C., Links O'Tryon Golf Club in Campobello, S.C., and Kettle Moraine Golf Club in Dousman, Wis. Prestwick is a national golf course brokerage, management, appraisal and consulting firm with corporate headquarters in Elm Grove, Wis.

FALCOLN'S FIRE NAMES GOLF DIRECTOR

ORLANDO, Fla. — Kenny Winn has been named director of golf at Falcoln's Fire Golf Club at Seralago. Winn has been head pro at Pelican Hills Golf Club in Newport Coast, Calif., since September 1991. He previously worked at Moreno Valley Ranch Golf Club in Moreno Valley, Calif., and PGA West in La Quinta, Calif. Rees Jones designed Falcoln's Fire, which was developed by Newfield Enterprises International of Los Angeles and is managed by Western Golf Properties Inc. of Scottsdale, Ariz.

TOMMY ARMOUR AWARDS SCHOLARSHIPS

Six Professional Golf Management students at Ferris State University received 1992/93 scholarships from Tommy Armour Golf. Receiving awards at the PGM Student Association banquet were Michael Hinderlifter of Portage, Mich.; Charles Karnolt of Winsted, Conn.; Ken Hartmann of Dallas; Andrew Rogers of Wildwood, Fla.; John German of Grinnell, Iowa; and Jeff Rainey of Tonawanda, N.Y.

CLUBCORP COURSE OPENS

The first course at Jack Nicklaus-designed Indigo Run on Hilton Head Island, S.C., opened recently for limited play. The private golf and residential community is operated by Club Corporation of America and The Melrose Co. Construction of a second course is scheduled to begin this spring.

GOLF COURSE NEWS

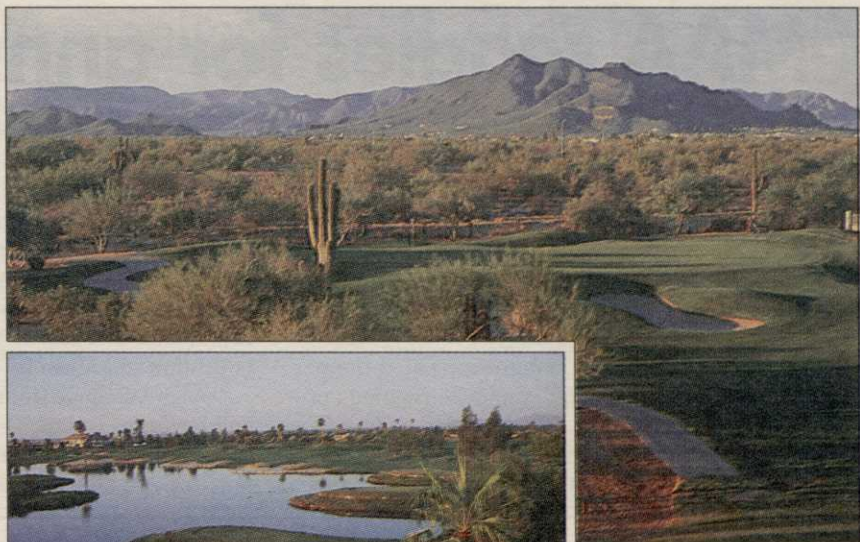
AGC's Arizona holdings reach double digits with Superstition Springs purchase

PHOENIX, Ariz. — American Golf Corp. acquired Superstition Springs Golf Club in Mesa in October, the third Phoenix-area acquisition for the California-based golf course management firm in as many weeks.

AGC bought Tatum Ranch Golf Club in Cave Creek and The Legend Golf Resort in Glendale in separate transactions, bringing the total number of courses owned in Arizona to 10.

According to Kevin Roberts, American Golf's senior vice president of operations for the West Coast, AGC has been monitoring the progress of the three Arizona resort courses for several years.

"It has always been our intention to expand our presence in the high-end, resort-type golf courses," said Roberts from the company's Phoenix office at Tatum Ranch.



The purchase of Superstition Springs GC in Mesa, inset, brings AGC's Ariz. holdings to 10. The company also bought Tatum Ranch, above, in Cave Creek in another recent transaction.

Superstition Springs is an 18-hole resort course. According to General Manager Jeff Lessig, the purchase included the par-72, 7,000-yard golf course, clubhouse and practice facilities from Phoenix-based DMB Associates.

The Tatum Ranch purchase includes the par-72, 6,780-yard resort course, clubhouse and existing practice facilities. It will be one of the key Arizona

operations centers of AGC and headed by Gary Klein, regional director for Arizona and Nevada. Klein, a 25-year veteran of the golf industry who has been with American Golf since 1975, comes to Phoenix from the Sahara Country Club in Las Vegas.

The Legend Golf Resort is located in the master-planned community of Arrowhead Ranch in Glendale.

Mich. designer awarded \$2.45 million in Alaskan contract suit

By PETER BLAIS

ANCHORAGE, Alaska — A jury awarded architect William Newcomb \$2.45 million in a breach of contract against the operator of the Anchorage Golf Course.

The course manager, Boyne (Mich.) USA subsidiary The Golf Co., claims the jury misread the evidence and is asking the state Superior Court judge to set aside the verdict.

Newcomb and The Golf Co. formed a partnership in 1984 to construct the course on municipal land with the intention of eventually selling it back to the city, the architect said. It opened in 1987.

"In today's market, that type of arrangement is not unusual," Newcomb said. "Limited funds are available for new construction. Boyne was a good partner the first three years. Then we saw things

differently."

The Ann Arbor, Mich.-based architect filed suit last year saying he was unable to exercise his option to buy The Golf Co.'s interest in the project because it was mismanaged. Lack of maintenance made it impossible to attract investors, he claimed. He predicted he will eventually end up with control of the club.

"We figured to have the course three to four years then sell it back to the community," Newcomb said. "I fought with Boyne for four years. Now we'll have to put a lot more money back into it."

The Golf Co. countered that Newcomb was unable to find investors at the inflated price he was asking and that the company did a good job maintaining and improving the course.

Newcomb's faulty design and construc-

Continued on page 68

Is there life after the RTC?

By HAL PHILLIPS

Ever wonder what happens to financially trouble golf courses — usually real-estate based — that wind up in the hands of lenders, bankruptcy courts or the dreaded Resolution Trust Corporation?

Eventually, these developments are placed at public auctions, like the one recently conducted by Chicago-based NRC Auction, Inc. The Harbor Club, a resort located on Georgia's Lake Oconee, sold for \$3.25 million at an auction conducted by NRC in November.

Pioneer Group, Inc., a real estate investment company based in Bristol, Va., purchased the golf course, equestrian center and 300 acres of undeveloped land at the Atlanta auction, which was ordered by bankruptcy court. Pioneer is affiliated

Continued on page 66

HOOK A KID

NYSCA President and Chief Executive Officer Fred Engh, left, discusses the Leawood (Kan.) Hook A Kid On Golf Learning Center plans with golf course designer Michael Hurdzan, center, and Scott Whitaker, director of parks and recreation.



Bankruptcy court to rule soon on Ventana Canyon

By PETER BLAIS

TUCSON, Ariz. — The federal bankruptcy court is expected to confirm Ventana Canyon Golf & Racquet Club's reorganization plan by late February or early March.

Course operator Everett Hometown Limited originally filed for Chapter 11 protection last spring. The filing in no way affected Loews Ventana Canyon Resort, a nearby 398-room hotel.

"The course was simply unable to generate enough cash flow to cover the debt (\$20 million) it was

Continued on page 66

January 1993 61

CMAA readies for annual meeting in Nashville

NASHVILLE, Tenn. — The Club Managers Association of America's (CMAA) 66th annual Conference and 15th annual Exposition will be held at the Opryland Hotel here Feb. 21-25.

Francis X. Maguire, founder and president of Hearth Communications, a management and communications consulting firm, will give the keynote address Monday, Feb. 22.

As senior vice president, Maguire created the personnel, communications and employee relations programs that made Federal Express "the multi-billion dollar business success story of the past two decades."

He also helped launch the Kentucky Fried Chicken

empire and the fast food revolution of the 1970s.

Maguire served in the executive office of the President in Washington during the John F. Kennedy and Lyndon B. Johnson administrations, and as director of program development at the American Broadcasting Company radio network hired Ted Koppel and Charles Osgood.

More than 80 seminars, clinics, workshops, panels and round-table discussions will be featured at the conference education sessions.

Topics will range from current regulatory issues to food and beverage trends.

In-depth studies will include personnel policy, motivation through effective communication, the magic of train-

ing, and elements of golf shop operations.

Roundtables and clinics will examine club management and operations, including taxes, legislation and education.

Educational opportunities also are available before and after official conference opening and closing. Pre-conference workshops Feb. 19 and 20 will address "Golf Course Maintenance I: Applications;" "Successful Golf Shop Operations;" "Risk Management for Club Managers," and "Golf Course Maintenance II: Management."

Post-conference workshops Feb. 26 are entitled "Strategic Market Planning" and "A Strategy for Winning."



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Kolar appointed CMAA director of education

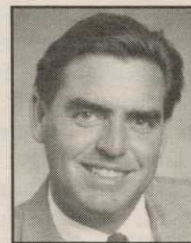
ALEXANDRIA, Va. — Otto Kolar has recently been appointed director of education of the Club Managers Association of America (CMAA). He will administer the association's certification and education programs, including the Business Management Institute programs.

Kolar was the founder and executive vice president of Kolar & Associates, an education and association management consulting firm in Alexandria. Kolar & Associates aided associations in needs assessment, certification programs, workshop development, program development/evaluation, and instructor training and evaluation.

Kolar is a graduate of Northern Illinois University, where he received a doctorate in curriculum and instruction and a master's degree in secondary and higher education.

Beardsley signs on as Glen Oaks director of golf

DES MOINES, Iowa — Terry Beardsley, a widely known Iowa golf professional, has taken over the duties as director of golf at the new Glen Oaks' Development in West Des Moines.



Terry Beardsley

Beardsley brings more than 14 years of teaching experience to Glen Oaks. He served as head professional at the

Wakonda Club in Des Moines since 1986. Prior to that, Beardsley logged six years as the head professional at the Tuckaway Country Club in Franklin, Wis.

Glen Oaks is a 511-acre community that will overlook the golf course designed by Tom Fazio. Construction began June 1 and is expected to be completed by the summer of 1994.

Bush vetoes anti-club tax measure

President Bush in early November vetoed tax legislation that included a provision repealing the business deduction for club dues.



Gerald Hurley

The club industry was pleased with the news. Among those lobbying against the provision, which Congress incorporated in every major piece of tax legislation since March, were the National Club Association, PGA of America, Club Man-

agers Association of America, state golf associations and industry suppliers and manufacturers.

"The battle isn't over yet," warned NCA Executive Vice President Gerald F. Hurley. "Legislation such as this will likely be introduced next year as Congress continues to seek additional revenue sources."

"We now must ensure that any future legislation does not incorporate a repeal of the dues deduction. Clubs must remain on guard to protect their interests and mobilize for the next assault."

Mass. town premature in trying to name new manager

TAUNTON, Mass. — City officials jumped the starter's gun last September when they initiated plans to select new course management at John F. Parker Municipal Golf Course.

Superior Court Judge William H. Carey affirmed that B & B Ltd., golf course managers at Parker since 1986, have the first option to renew their contract with the city.

B & B brought suit when Mayor Robert G. Nunes and other city officials proposed creation of an enterprise system whereby the city would take in all profits generated by the course and pay a fee to a management company to run the course.

Course managers would have kept 90 percent of the profits from concession sales and the driving range. Profits would have been channeled into daily operations and capital improvements at the facility.

Course managers now keep all profits and pay the city an annual fee of \$25,000.

Shiloh Falls comes under Marriott banner

WASHINGTON, D.C. — Marriott Golf Management Services has added The Golf Club at Shiloh Falls to its portfolio of managed championship facilities. It is the 17th facility in Marriott's golf management portfolio.

Located 90 minutes east of Memphis along Pickwick Lake, The Golf Club at Shiloh Falls is owned by the Shiloh Investment Group, a Memphis-based real estate development company.

The 18-hole championship course was designed by Fred Couples and Jerry Pate. Its first nine holes open for play this autumn and the final nine will open in the Spring of 1993. When completed, the entire facility will be available for membership and reciprocal play.

NGCOA meeting set for early February

The National Golf Course Owners Association will hold its 11th Annual Conference at the Disney Yacht & Beach Club in Orlando, Fla., Feb. 1-5.

Attendees will learn how Disney's successful management and customer relations can work for golf course owners and operators in sessions on Disney management techniques.

The future of the golf industry will be the subject of panel discussions with representatives from the NGCOA, U.S. Golf Association, PGA of America, Golf Course Superintendents Association of America, National Golf Foundation and PGA Tour.

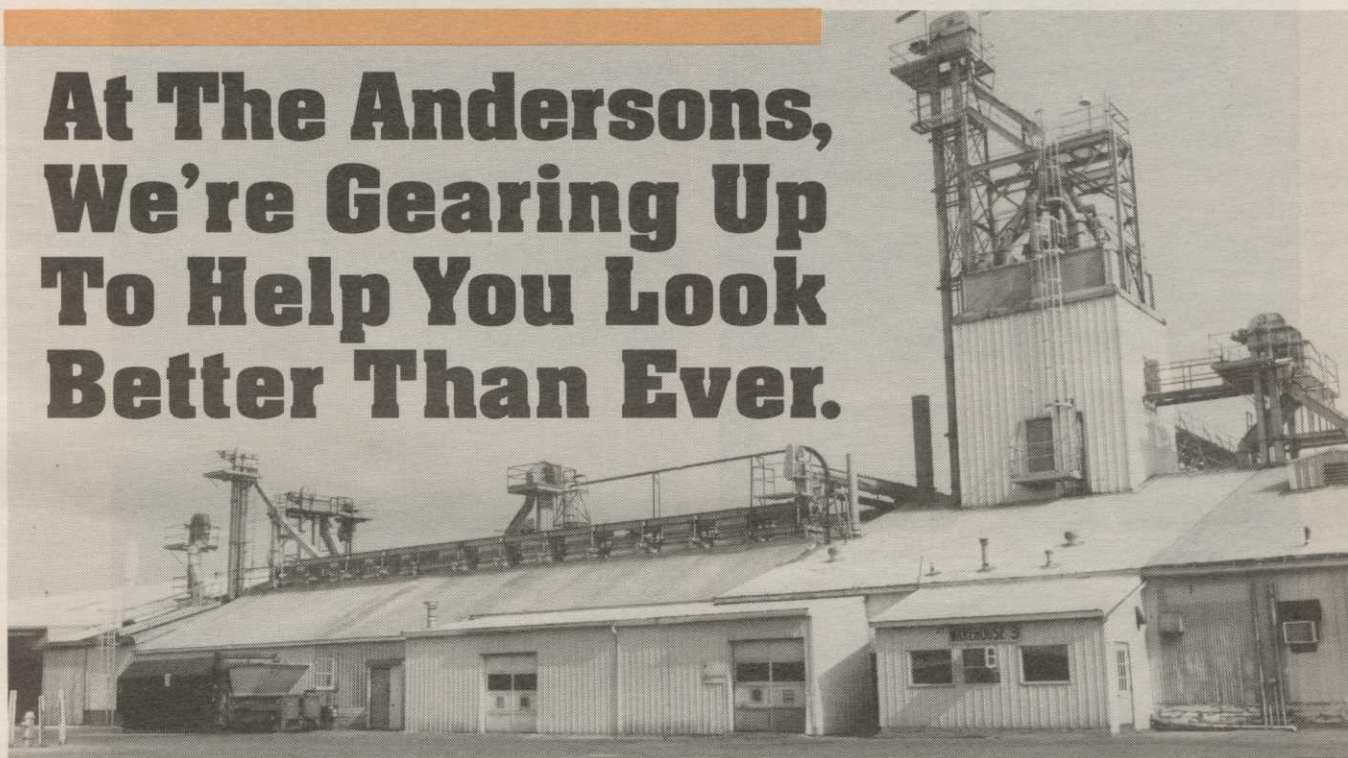
Additional presentations will cover regional

marketing, legal liabilities, group purchasing, environmental success stories and technologies, and the ever-popular Idea(r) Night — an exposition of the best golf course management ideas from around the country.

The conference coincides with the PGA Merchandise Show in Orlando Jan 30-Feb. 1. NGCOA members will be admitted free to the PGA Show by presenting their membership cards.

For more information on the conference contact the NGCOA at 800-933-4262 or write NGCOA, P.O. Box 1061, 14 Exchange Street, Charleston, S.C. 29402.

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ClubCorp obtains full ownership of daily-fee golf subsidiary

DALLAS — Club Corporation International (ClubCorp) has obtained full ownership interest in GolfCorp, its public-fee golf subsidiary, from joint-venture partner Bob Husband, GolfCorp's co-founder.

The move was made to further consolidate and support GolfCorp's recent new business strategy of growth through acquisitions of quality public-fee golf facilities.

ClubCorp has named Jim Hinckley, 23-year

company veteran, as GolfCorp's new president. Within ClubCorp, Hinckley also serves as president of Club Resorts Inc., the nation's largest privately held golf and conference resort company, and oversees operations for ClubCorp Realty.

ClubCorp purchased its initial interest in GolfCorp, then called Silband Sports, in 1986. Today, GolfCorp owns and operates 33 public-fee golf courses.

County can proceed with legal action

PANAMA CITY, Fla. — A federal bankruptcy judge has authorized Bay County to pursue legal action against Southeast Golf Course Management.

There's only one hitch.

Where is management that had operated Majette Dunes Golf Course?

On Nov. 4, Textron Financial Services repossessed Southeast Golf's irrigation and maintenance equipment as well as its golf course.

The course since had gone untended, though members con-

tinued to play there — presumably without starting times.

The course will remain closed "until further notice," said Assistant County Manager Joy Bates.

The county leased the golf course to Southeast in 1988 for \$1 a year.

As a condition of the 15-year lease, Southeast was required to maintain the course and the adjacent H. G. Harders Recreational Complex.

The county has charged that Southeast Golf Course Management violated lease terms.



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Champions has new ownership

ROGERS, Ark. — Sunrise Land Corp. is the new owner of Champions Golf and Country Club. Sunrise raised \$7 million to pay off course mortgages.

The corporation was formed after club co-founder Pauline Whitaker filed a foreclosure suit against the club. She had lent the club more than \$2.6 million.

Settlement details were not released, but debts owed Whitaker have been settled.

Fifty-five unsecured creditors had the choice of receiving land from Champions or going into a debt pool that would be paid into as lots are sold.

The club will change its name.

Dayton team wins Deere title

LaQUINTA, Calif. — Kittyhawk Golf Center from Dayton, Ohio won the sixth annual John Deere Team Championship Golf Tournament Nov. 21-22 at the Dunes Course at LaQuinta Hotel Golf & Tennis Resort and Jack Nicklaus Resort Course at PGA West.

Members of the winning team were Hank Chaffin, superintendent; Richard L. Hutchinson, PGA professional; Terry Smith, club manager; Conrad Stewart, club manager; and Craig Fryman, distributor representative.

Thirty-three teams from the United States and Canada participated.

Casper takes over Stoneleigh

ROUND HILL, Va. — Billy Casper Golf Management, Inc. (BCGM) has been retained to manage Stoneleigh Golf Club.

The management agreement coincides with Stoneleigh's opening after several years of course development. Set among the rolling hills outside Leesburg, the 600-acre facility with more than five miles of stone walls.

"In my 25 years in golf, I've never seen a course or club as picturesque as Stoneleigh," said Casper Senior Vice President F. Thomas Martyr.

Hunter® The Irrigation Innovators



Low Country

Continued from page 1

planning to do. What do you think?" explained Tinkey, who is also president of the Low Country Golf Course Owners Association. "We have a tradition on Hilton Head of being environmentally sensitive. We wanted to continue the tradition, but at an accelerated pace.

"We want to remain on the cutting edge of environmental protection while ensuring the highest standards of aesthetics and playability for golfers and homeowners. But that's a delicate

balance."

That's why Royal Golf & Tennis (RG&T) sought help, in the form of the South Carolina Coastal Council which, needless to say, was happy to be consulted.

"They've been willing and able to work with us," explained council biologist George Madlinger. "And instead of saying, 'You can't do that,' we've been able to work out some compromises.

"I don't think it has cost them anything more. They've been able to do wonders, let me tell you."

A good example of this cooperation took place at Planter's Row Golf Course, part of Port Royal, a

54-hole complex managed by RG&T.

The track was scheduled for closing in order that all 18 greens could be replaced. While the course was under repair, 6,000 trees and shrubs were planted and the local Audubon Society helped create nesting areas. Active bird watching is now conducted on the course, and there's even a family of otters living nearby.

One of the major issues along the South Carolina coastline has been stormwater runoff. Royal Golf & Tennis has worked with the council to create vegetative buffers — especially around in-

lets or lagoons — that act as filters and provide wildlife habitats.

Todd Ballantine, principal of Ballantine Environmental Resources, worked on this natural buffer system.

"The golf course management company [RT&G] took it upon themselves to get the proper information," said Ballantine. "In the long run, I believe the aesthetics they've created have made the courses unique — and on Hilton Head, you have to be unique to survive."

At another Royal Golf & Tennis course, five acres of superfluous turf were recently replanted with

wildflowers, thus reducing the chemicals and water needed for maintenance. It's also more pleasing to the eye, Tinkey added.

"We just think it's the right thing to do," said Tinkey. "Our environment is awfully precious. We also want to be ahead of the curve on telling the public that golf courses can be a positive influence on the environment.

"That's something our industry has not done well over the years."

Madlinger, for one, sees a healthy precedent in the making.

"Hopefully we can create some sort of national trend."

Groups join forces to market Hilton Head

HILTON HEAD ISLAND, S.C. — The Hilton Head Island Visitor & Convention Bureau and the Low Country Golf Course Owners Association have started a joint marketing plan to inform golfers of the value of a Hilton Head golf vacation.

A *Golf Planner* includes information on special value packages offered at some of the region's best-known resorts including Sea Pines, Shipyard, Palmetto Dunes, Port Royal, Country Club of Hilton Head, Old South Golf Links, Hilton Head National, Executive Golf Course, Rose Hill Club, Island West and Pleasant Point.

The planner includes extensive information on the resort and public-access courses in the area.

"Many people know about the excellence of Hilton Head Island golf, but golfers today are looking for extra value as well. With the *Golf Planner*, we're offering the convenience of a handy, easy-to-use guide to help our visitors choose a quality, affordable golf vacation," said Low Country GCOA President Mike Tinkey.

The *Hilton Head Island and South Carolina Low Country Golf Planner* and a "Fast Fax" informational package are available free from the convention bureau by calling 800-523-3373 or by FAX at 803-785-7110.

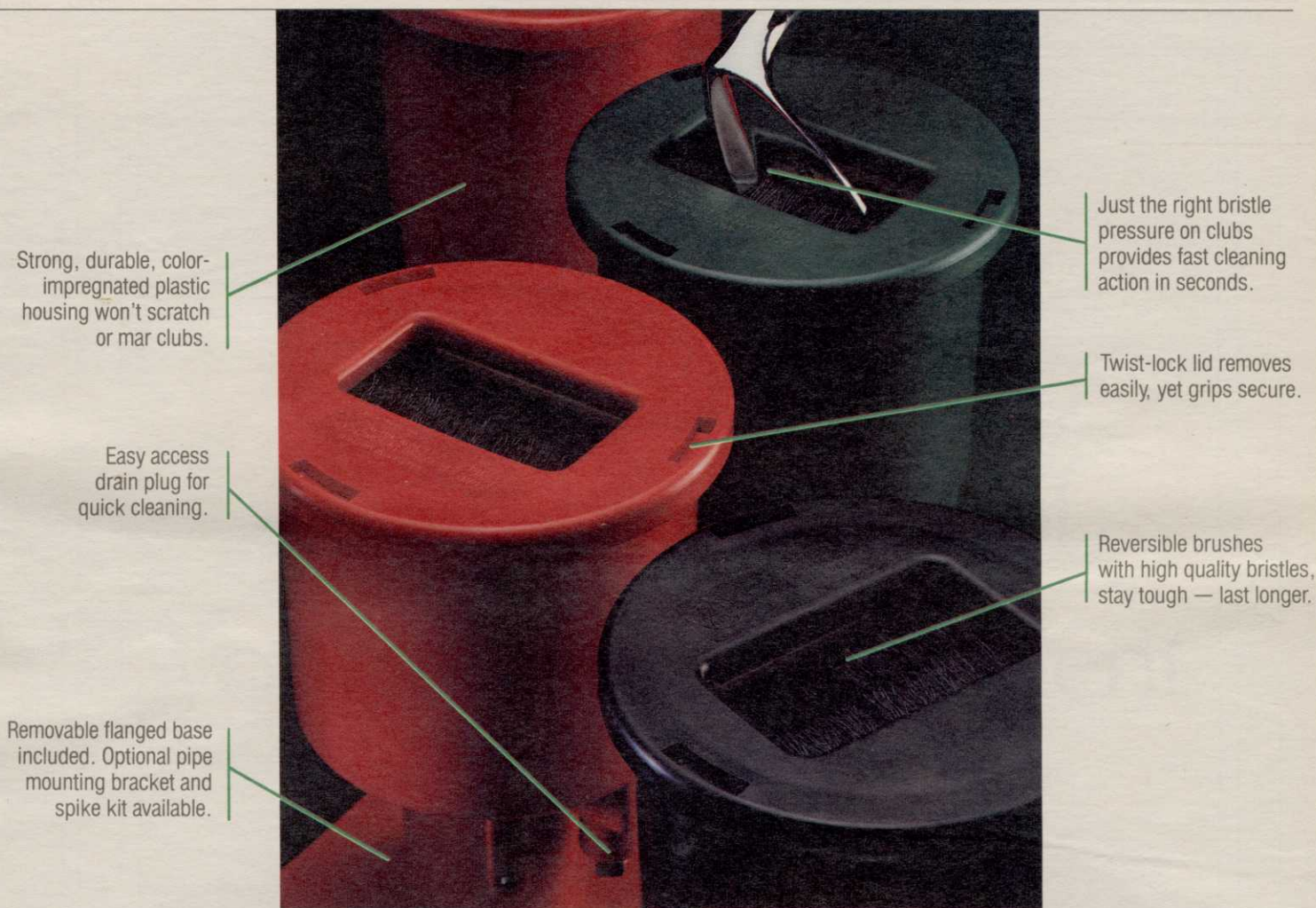
Golf Resources takes over Madera Muni GC

MADERA, Calif. — What the city could not do, a private company will attempt.

Golf Resources Inc. of Auburn has been awarded an interim contract to manage the financially troubled Madera Municipal Golf Course.

The City Council will pay the company \$5,000 a month for four months to manage the course.

It will pay Golf Resources an additional \$4,000 to develop recommendations on how to improve, maintain and advertise the course and operate the golf shop and restaurant at a profit.



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The Harbor Club finds its way to the RTC auction block

Continued from page 61

with Rapoca Energy Co., a diversified coal and energy company with operations in Virginia, Kentucky and West Virginia.

NRC also coordinated the auction earlier this year of Hope Plantation, the first RTC-held golf course to be auctioned off.

"As a result of our two sales this year, we have been contacted by other institutions that have foreclosed on these types of properties," explained Evan Gladstone, executive vice president of NRC

Auctions, who has an interesting cross-regional perspective on the real-estate bust of the 1980s.

"There was a lot of money being thrown into these properties during the 80s," he said. "But the economics of these developments were predicated on the buyers coming from the Northeast. When the recession hit the Northeast, it really killed the real estate aspect of many projects down South."

The plight of bankrupt golf course resort communities has received added publicity since

RTC moved in on Landmark last September. According to Gladstone, NRC bid on the right to organize the auction of Landmark properties, but lost out to Kidder, Peabody & Co.

Anne Freeman, an RTC spokesperson, indicated Kidder, Peabody is expected to submit a marketing plan for Landmark in mid-January. In November 1992, RTC filed a bankruptcy plan with the federal district court in Charleston, S.C. Sometime on or around March 15, the court is

expected to approve the plan, thus clearing the way for RTC to receive bids, Freeman explained.

Gladstone said RTC held 17 golf course properties before the fall of Oak Tree, Kiawah, PGA West and other former Landmark venues. And the lengthy delays in readying bankrupt properties for auction is par for the course, he said.

"There seems to be a standard response for properties of this sort," Gladstone said. "By the time it gets into the lender's hands, or

RTC's, the projects tend to have substantial real estate, environmental, legal and zoning problems. Getting them ready for sale is a tough process — it can take months."

For example, the Harbor Club filed for Chapter 7 liquidation and the bankruptcy court subsequently ordered the public auction. However, it was not offered for public bid in a timely fashion because, as Gladstone noted, it took four months to iron out the details.

"There were a number of problems at the Harbor Club. For instance, there was a cart path that ran right through a lot that had been sold. We couldn't move the cart path because of the lake. We finally had to trade two unsold lots for the cart path lot."

Chip Barker, vice president of Pioneer Group, said the firm planned to operate the Harbor Club property as it was originally envisioned: A golf course/resort area that becomes a golf destination.

The club opened in mid-1989 on 1,000 acres of land with six miles of shoreline fronting Lake Oconee, a 19,000-acre man-made lake. Barker said an emphasis will be placed on the course — designed by Tom Weiskopf and Jay Morrish — and various uses will be explored at the equestrian center.

Ventana Canyon

Continued from page 61

carrying. It's a fantastic club. But the amount of debt was more than revenues could support," said Ennis Dale, vice president of TEM Corp., the project's asset manager.

Everett and lender Greyhound Real Estate Finance Co. submitted the joint reorganization plan in late November. The initial hearing was scheduled for Jan. 4 with the confirmation hearing expected six to seven weeks later.

Tucson businessman Bill Estes developed the two Tom Fazio-designed courses and 48-unit hotel that opened in 1984.

An Estes real estate company was supposed to subsidize the course operation. But it ran into financial difficulties of its own, Dale explained. That eventually led to the course's funding problems.

"The golf course wasn't the problem," agreed Arizona Golf Association Executive Director Ed Gowan. "It was the real estate."

Greyhound is searching for a third party to operate the club when the reorganization plan is accepted.

The money problems have not affected the quality or quantity of play, Dale said.

"The course has continued operating at the same or better conditions than before the bankruptcy filing," he added.



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Club 18 helps private clubs generate additional revenue

By ELAINE FITZGERALD

A Florida company is helping private courses hold down membership costs by encouraging visiting Europeans to play the layouts during off-peak times.

Fort Lauderdale-based Club 18 International provides European golfers access to hundreds of private, semi-private and up-scale public courses throughout the United States.

Participating facilities admit Club 18 International cardholders during the course's down times, taking business only when they need it.

Club 18 members make their own tee times, identify themselves with a club card and passport and pay fees directly to the pro shop.

It costs clubs nothing to participate. Club 18 members pay \$75 to join. Airlines have also given away memberships as promotional tools.

For many courses, the added revenue can lessen the need for additional member assessments, larger initiation fees or higher dues.

Maintenance payrolls receive a boost during slack periods.

"It's not our intent to make golf courses rich on our clientele. What we are helping them do is offset the loss of revenues during slow periods," said Club 18's Richard Graves.

Graves and partner Roger Paul Roman are experienced international marketers, having spent 20 years with major hotel chains and airlines.

Club 18 advertises member courses throughout Europe.

"The European golf community is one of the most dynamic and fastest growing markets available to American golf clubs," Roman said.

Golf's growth and a weak U.S. dollar make the United States the top long-haul destination for Europeans.

The U.S. Tour and Travel Agency (a division of the Department of Commerce) says 45 million foreigners will visit the United States in 1992 and spend \$50 billion (Overseas visitors spend seven times more than domestic tourists). And more than 12 percent want to play golf.

"I come to the United States about five times a year on business and to play golf," said Bob Corney, a corporate executive from England.

"All of my friends play golf, and we look forward to having the chance to play on some of the best U.S. courses."

The big problem in Europe is a shortage of golf facilities. Most are private and very expensive.

"When Europeans come to the United States they realize fabulous buying power," Roman said. "They pay full price for golf clubs in the pro shop and, to them, it's a bargain."

Club 18 International has offices in Germany, England and Sweden.

The company has also contracted with European travel firms specializing in corporate, incentive and upper-income travelers.

Graves and Roman are preparing a nationwide list of golf courses wanting to join the program.

The directory will be distributed throughout Europe. Roman expects between 300 to 400 U.S. courses to sign on. Initial course

recruiting efforts were made in Florida. Among those signing contracts were Cobblestone Country Club in Stuart, Glen Abbey Golf Club in De Bary and Presidential Country Club in North Miami Beach.

"We're not looking for nine-hole executive courses or free buckets of balls. We're looking for access to courses that will excite our clients," Graves said.

Club 18 International can be reached by telephoning 305-565-6558 or by writing to 757 SE 17th Street, Fort Lauderdale, Fla. 33316.



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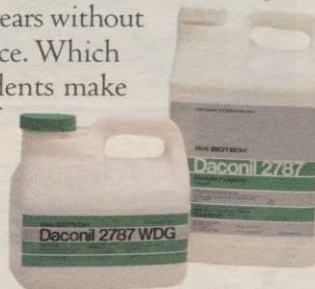
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Bennett: 20 to 30 supers capable of winning GCSAA title

Continued from page 17

Carlton Oaks and Steele Canyon will host the championship flight.

Bennett believes 20 to 30 superintendents are capable of winning this year's event. Among his stiffest competitors, he believes, will be past champions Roger Null (1983, '90 and '91) of Norwood Hills Country Club in St. Louis; Dave Powell (1985, '88 and '89) of Myers Park Country Club in Charlotte, N.C.; Mike Apodaca (1982 and '87) of Tijeras Arroyo Golf Club in Albuquerque, N.M.; and

David Oliver (1986) of Martin Downs Country Club in Hobe Sound, Fla.

Looking for a darkhorse? Try Andy Campbell of Brook Valley Country Club in Winterville, N.C.

"The last three years he's either tied or beat me in the team qualifying competition," Bennett said.

Dick Stuntz of Alvarado Country Club in Lawrence, Kan., was a sentimental choice mentioned by fellow competitors and others in the GCSAA hierarchy.

"He's been close several times," said Dave Fearis of nearby Blue Hills Country Club in Kansas City, Mo., a 14-handicapper, candidate for the board of directors and close friend. "It would be nice to see him win."

Stuntz has a second-, third, and fourth-place finish to his credit, although his best shot resulted in a lower finish at Houston in 1988.

"I had a four-shot lead with 11 holes to go. But, I absolutely collapsed. Everything that could go wrong did go wrong. A bunch of

people went by me and Dave Powell won. I finished something like eighth. Just another disappointment," he said.

Stuntz said there are too many good players to designate anyone as the favorite. The Iowa State University graduate likes his chances as much as anyone's and has particularly fond memories of Carlton Oaks.

"I played there 20 years ago. It was the only NCAA tournament I qualified for," he said.

Past champion Oliver of Martin

Downs Country Club in Hobe Sound, Fla., was particularly intrigued by last year's runner-up, Jim Sparks of Champion Hills Club in Hendersonville, N.C. The 6-4, 225-pounder "is a very long hitter who could do very well," Oliver said.

Apparently, though, 1993 won't be Sparks' year.

"I was busy with other things and forgot to send in my application," said Sparks, who played in his first GCSAA tourney last year. "So I guess I won't be playing."

Oliver considers himself one of 10 players with a good chance of winning, even though course reconstruction work and building a new house have limited his play the past 12 months. He finished 5th last year and 12th the year before that. An eagle on the 14th at Palm Valley in Palm Desert, Calif., was the key to his 1986 victory.

"I shot par the rest of the way and some other people fell back. I won by one stroke, but didn't know it until I was in the clubhouse," he said.

Newcomb awarded \$2.5m for breach of Alaskan contract

Continued from page 61

tion work were the cause of any maintenance problems, Boyne representatives claimed. Previous non-jury decisions favored The Golf Co., according to Boyne Chief Operating Officer Art Tebo.

"He built the course, but really never finished it," Tebo said. "The jury was confused about the issues."

Those issues centered around maintenance. Newcomb's attorney said the company spent \$195,000 annually operating the facility during the three years before Newcomb's buyout option expired in May 1991. The next year maintenance costs jumped to \$310,000.

The maintenance staff increased from 10 to 17 the year after Newcomb's option expired, the jury foreman told the *Anchorage Daily News*.

Boyne pledged the ruling will not affect golf course conditions. It will appeal if the judge does not overturn the jury decision, Tebo said.

"Boyne is carrying on at the course right now," Newcomb said. "I don't know how long that will last. But their days are numbered. There should be a new owner there by spring."

Tebo said he was confident the judge would set aside the verdict or that The Golf Co. would win on appeal.

Whatever happens, the case means the end of a 27-year relationship between Boyne and Newcomb, both sides agreed. Newcomb had done several projects at the Michigan resort, including The Ross Memorial.

GOLF COURSE NEWS

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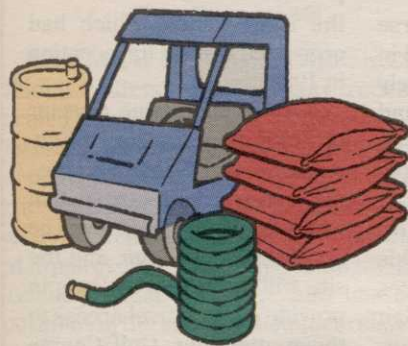
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BRIEFS



TERRA BUYS OUT BI-STATE

CHAMPAIGN, Ill. — Terra International has announced the acquisition of Bi-State Turf, Inc. of Danville, Ill. Former Bi-State customers can expect to maintain their current business relationship with Terra. The previous owner of Bi-State, Larry Pfeiderer, has joined Terra as turf sales manager in the Illinois region. Also remaining on staff are Pam Pfeiderer as inside sales/secretary, and Jim Ellis as salesman in the region. The Bi-State Turf headquarters has been moved to Terra's Champaign, Ill., location.

COLORADO ST. HONORS SMITH

FORT COLLINS, Colo. — Stephen Smith, president of Aqua Engineering, Inc., has been granted the Individual Achievement Award by Colorado State University. Smith was honored for pioneering the development and application of advanced technology for landscape irrigation, and for bringing the strong technical skills of engineers into the irrigation industry. Aqua Engineering, founded by Smith in 1975, specializes in irrigation design, as well as water feature and pump mechanical design.



Steven Smith

KLINGENBERG JOINS FMC

PHOENIX — Jeffrey P. Klingenberg, Ph.D., has joined Farmers Marketing Corporation as a research geneticist. Klingenberg has been very active in buffalograss research and development, as well as assisting with breeding, management and environmental impact research of other turfgrass specialties, including bermudagrass, Kentucky bluegrass, tall fescue, bentgrass, zoysiagrass and blue grama grass. In addition, he has extensive experience with production and field research in small grains.

WOOD THE NEW VP AT AGRIDYNE

SALT LAKE CITY — AgriDyne Technologies Inc. has announced the promotion of Dr. Timothy E. Wood to vice president of research and development, replacing Dr. Dale Hansen. In his new position, Wood will assume full responsibility for the development, manufacture and testing of innovative, environmentally compatible crop protection products. A former director of R&D for AgriDyne, Wood managed the biological testing program for the firm's nematode-based bioinsecticides, Azatin and Turplex.

More Briefs on page 71

Victory for pre-emption efforts in Minnesota

By HAL PHILLIPS

MINNEAPOLIS — Golf industry forces won another important victory when a Minnesota court ruling prohibited a community from placing its own regulations on aerial pesticide application, a process already regulated by the state Department of Agriculture.

The Township of Mantrap had passed a zoning ordinance placing all manner of restrictions on the aerial spraying of pesticides. The Mantrap decision was challenged in court by the Minnesota Agricultural Aircraft Association (MAAA).

The Mantrap ordinance was found to be in conflict with Minnesota Statute #18B that regulates pesticides, including their application. On Oct. 16, 1992, District Court Judge Michael Haas sided with the MAAA and slapped a permanent restraining order on any enforcement of the Mantrap ordinance.

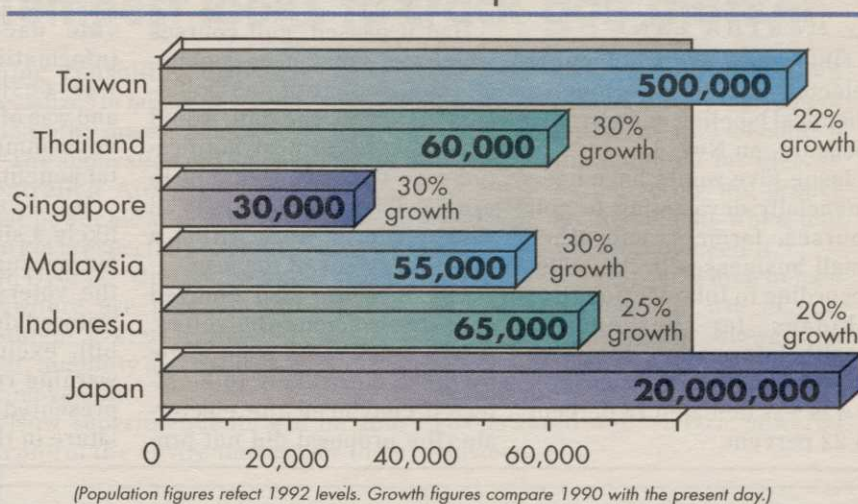
The Minnesota Legislature had already enacted a state pre-emption clause (MSA #188.02) which forbids townships from passing ordinances contrary to statewide statutes. The Mantrap decision further backed up the pre-emption process.

The golf industry should be well pleased with the Mantrap decision, even though aerial spraying is hardly a common practice on fairways and greens. Through Responsible Industry for a Sound Environment (RISE), the chemical industry has lobbied hard for a national pre-emption statute that would uphold the authority of all findings issued by the federal Environmental Protection Agency. The growing number of states, like Minnesota, which have passed their own pre-emption clauses only helps the effort.

"Basically, the ruling confirms that the Minnesota state pre-emption statute clearly pre-empts any local pesticide statute," stated Allen James, RISE executive director. "As importantly... the judge states

Continued on page 74

Asian Golf Population



Golf Asia '93: Making the Pacific connections

By HAL PHILLIPS

SINGAPORE — Stephen Allen acknowledges he didn't coin the phrase, but he still likes the sound of it: "Eastern efficiency, Western flexibility." Allen believes these four words aptly describe Golf Asia 1993, the international golf trade show and conference scheduled here for late March.

The third Asia Pacific Golf Conference will be held at the Pan Pacific Hotel March 23-25, while the International Golf Exhibition and Trade Show is slated for March 25-28 at the World Trade Center.

"Asia-Pacific is going to be a big market," says Allen, vice president of Connex Private Ltd., the Chinese firm which has staged Golf Asia since its inception three years ago. "You have to put things in perspective: It's a new market. But it's awakening.

"You have to understand: In relation to golf course development, Southeast Asia is still in its infancy; Japan is a full-grown adolescent; and America is past middle age.

"The companies that are going to clean



Stephen Allen

up in this region are those that get in early, perhaps with a joint venture, which is the only way to go about it at this point. The companies that do not have a presence in this region will find themselves behind the eight-ball. You need a partner and that partner needs to be Asian."

Just before Christmas, Allen reported the trade show floor was 70 percent full — as opposed to an 82 percent figure at the same time last year. Allen attributed the relative slowdown to a combination of factors: the worldwide slump; a reality check in Japanese financial circles; and the presence of new competition, the Golf Course Superintendents Association of America's (GCSAA) Pacific Rim show.

Continued on page 70

Jacobsen and Toro dive into retro-fit greens roller market

By MARK LESLIE

Greens rollers that attach to triplex mowers — a simple innovation that makes the job faster and easier — are being manufactured by Jacobsen and Toro.

Having raced to a winter-time unveiling, Jacobsen is selling its QuickRoll and Toro peddling its Tri-Roller, both of which are attachable to the companies' triplex mowers.

Toro has not released specifics on its Tri-Roller, but Jacobsen says its QuickRoll rollers are 24 inches long, six inches in diameter and mount on ball bearings in a weighted frame. Total rolling width is 64 inches, which means "you can roll 18 average-sized greens in less than three hours."

Bill Kinzer, Jacobsen product manager, said 15 to 20 superintendents field-tested his unit last year and feedback was "all positive. It's quicker, no operator training is involved, and the results were virtually the same" as smaller rollers, he said.

Frank Dobie, a superintendent in Cleveland who has invented his own similar unit, said development of a 60-inch-wide roller attachment for triplex mowers has several advantages



The new Quick Roll from Jacobsen

over the traditional 36- to 42-inch walk-behind rollers.

"If someone is mowing by hand, that [width difference] might not make much difference," Dobie said. "But if they're cutting with a triplex, it's much faster. It costs one-third the [\$7,500] price of a 36-inch unit, and that makes [your choices] really interesting..."

"Also, walk-behinds don't transport from green to green. They have to be loaded on a trailer."

Continued on page 77

Ohio voters don't go for Issue Five

By MARTHA LANE

Ohio voters overwhelmingly rejected State Issue Five, a chemical labeling and warning measure, on Nov. 3.

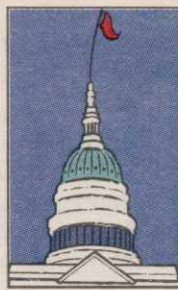
Issue Five would have been financially devastating to golf courses, farmers, and other small businesses in the state, according to John McGough of Ohioans for Responsible Health Information, the leading opponents of the measure. It was defeated 78 percent to 22 percent.

Had it passed, golf courses which use substances containing any amount of 458 pollutants listed in the bill would have needed to post notifications on the premises and to provide leaflets or letters to all who reside or work within a two-mile radius of the area.

The measure had enjoyed early favor among the voters. A late grass roots push made by those most likely to be affected convinced the electorate the proposal did not pro-

vide useful information, was costly, and was of no environmental benefit.

It is unlikely a similar measure will be put before the voters any time soon. A watered-down version of the bill, excluding the two-mile warning requirement, may be presented directly to the legislature in the next few years.



Golf Course Europe draws 600

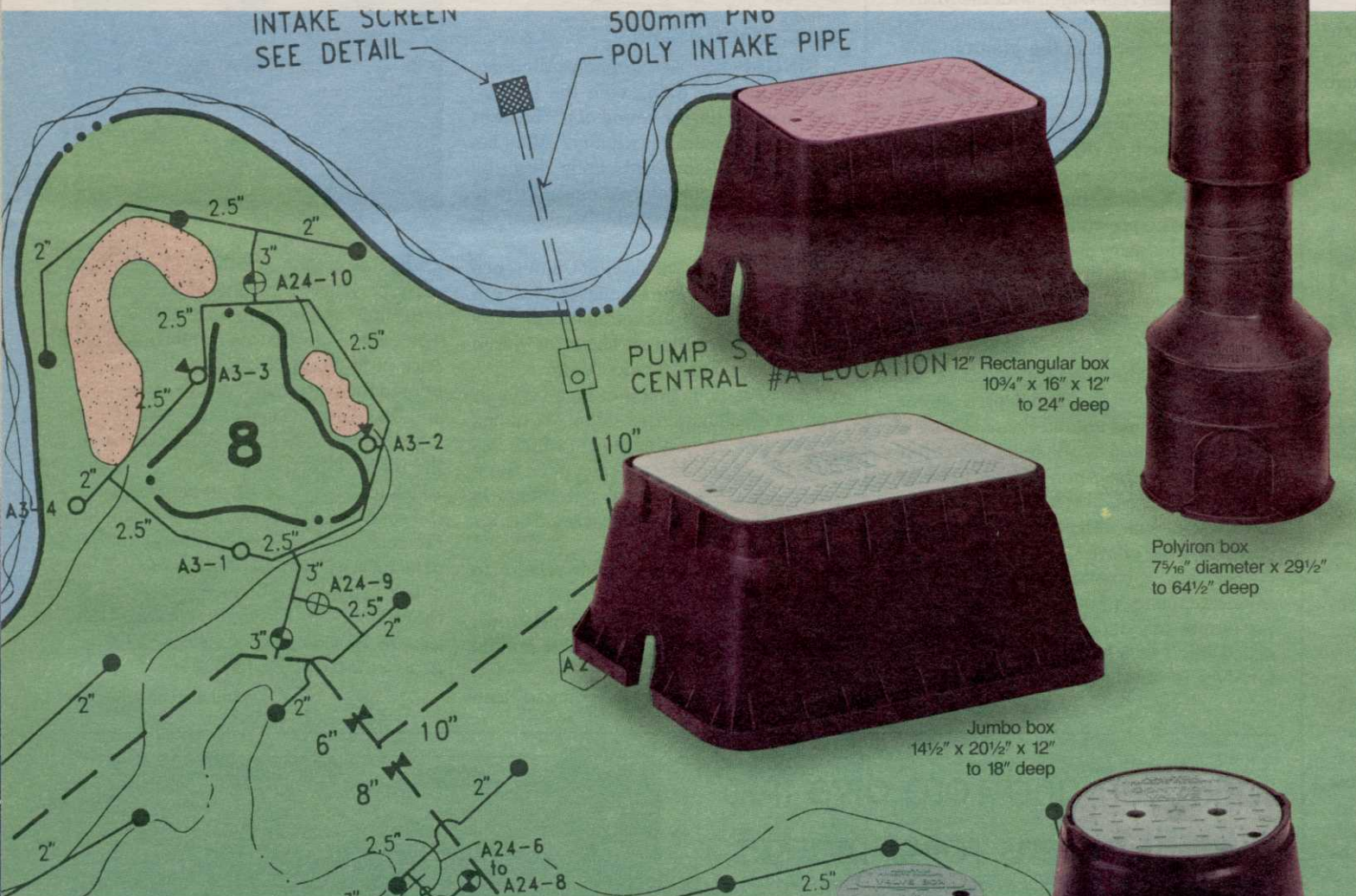
The fifth annual Golf Course Europe was held Nov. 12-14 in Monte Carlo. Approximately 800 developers, managers and sales representatives visited the 45 exhibitors at this exposition.

Golf Course Europe was organized for the first time this year by Executive Conferences and Seminars, Inc. of San Rafael, Calif. Executive purchased the exhibition in April of 1992 from Expo Consult of

the Netherlands, which had organized it since its inception in 1988.

Boris Franchomme, director of Exhibits at Executive Conferences and Seminars, Inc., plans an even larger exposition next year. Exhibit space will be nearly twice as large, and the site will be moved to Paris to provide easier travel access to those attending. Golf Course Europe 1993 is scheduled for Dec. 1-3, 1993.

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"There's still a lot of money in Japan — but it's real money now... They're paying realistic figures."

— Stephen Allen,
Connex Private Ltd.

Golf Asia '93

Continued from page 69

Clearly, the first two factors are related. Further, golf development in the region is somewhat dependent on Japanese investment,

"I think it's quite dependent," Allen concurred. "But you have to segment the market. Japan has a greater effect in north Asia, including Hong Kong, while Southeast Asia isn't affected to nearly the same degree. In fact, Indonesia — which has a dynamic economy all its own — isn't dependent on Japan at all.

"And there's still a lot of money in Japan — but it's real money now. By that I mean they used to spend a lot of money with no expectation of return. Now they're paying realistic figures."

The GCSAA bid was made official in April 1992, when GCSAA representatives invited Connex officials to a meeting in Singapore. The atmosphere was less than cordial, said Allen.

"We walked in and they said, 'This is our lawyer,' " Allen recalled. "That's no way to do business. Our position hasn't changed from Day 1: We want a one-stop shopping venue. Apparently, they don't."

The GCSAA show is scheduled a week before Golf Asia '93, meaning companies will be forced to choose one marketplace or pay the price for attending two trade shows.

"The GCSAA is forcing people to spend more money. I think it's unfortunate for the industry that GCSAA has handled things the way it has. I've asked the GCSAA what its members want. Don't they want one big show? No answer was forthcoming.

"It's going to be a very interesting situation... Our doors remain open to any U.S. company. Many firms — Rain Bird, for example — have increased their booth space. They realize we are a Chinese group and we have many, many contacts here."

BRIEFS

(Cont. from page 69)

RESEARCH TRIANGLE PARK, N.C. — Rhone-Poulenc Ag Company recently named Terry Marquardt as development manager for the Chipco/Specialty Products Group. He brings 12 years of experience with Rhone-Poulenc and its crop protection chemicals to his new position. Marquardt first joined the company as a Temik product specialist, and has held positions in the areas of customer relations and technical development services.



Robert Eichenberg, Jr.



Paulette Grimme

EICHENBERG, GRIMME JOIN O.M. SCOTTS

MARYSVILLE, Ohio — Robert Eichenberg, Jr. has been named the new commercial marketing manager for the Professional Business Group of The O.M. Scott & Sons Company. He will execute the marketing plans for the following business segments: ProGrow, Lawn Care Service Supply, Schools and Sports Fields, and Specialty Agriculture. In other Scott news, Paulette Grimme has been named assistant marketing manager, responsible for product line management, internal and external newsletters, marketing plans and agency communication.

SIMS AND JAGER SIGN ON WITH LESCO

CLEVELAND — Jeffrey R. Sims has joined LESCO, Inc. in the newly created position of vice president-logistics. Sims was previously with The Scotts Company where he served as director of logistics and operations for three years. He had also served as director of distribution for the Kroger Company. In other news at LESCO, Frans H. Jager has come on board as director of purchasing. Jager was formerly vice president and general manager of the fertilizer division of Continental Grain Company in Tampa, Fla.

DAMRON JOINS AQUATROLS

Dan Damron has joined Aquatrols as technical sales representative. A University of Missouri graduate, Damron brings more than 30 years of technical sales experience in the industrial chemical, turf, horticulture



Dan Damron

and agriculture industries. Damron will serve turf and ornamental professionals and distributors in ten south-central states.

SYNCRIFLO NOW ETL-CERTIFIED

NORCROSS, Ga. — Effective immediately, all SyncroFlo pre-packaged electric motor and diesel-engine-driven pumping systems (category 225) will carry the ETL Testing Laboratories, Inc. certification labels. The ETL certification covers the complete system, including pumps, motors, control equipment, valves and fittings, and factory-tested procedures. In addition to ETL, SyncroFlo will continue to carry the Underwriters Laboratories certification label on the control panel.

With Dvorak's help, Tempest looks to crack golf market

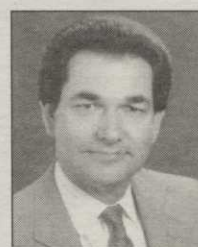
FRESNO, Calif. — Dexter Coffman, president of Tempest Controlled Airstreams, a manufacturer of portable power blowers mainly for the fire service, has announced the appointment of Nick Dvorak to lead the company's entry into the golf, rental and industrial markets.

Dvorak and his company, Growth Marketing Associates of Fresno, have been retained to develop a nationwide network of distributorships in these markets. Dvorak is principal of Growth Marketing Associates, a mar-

keting consulting firm that specializes in taking new products to the marketplace.

"The application of Tempest Controlled Airstreams portable power blowers to the turf market is especially exciting," said Dvorak. "Golf courses everywhere are plagued with problem greens caused by heat, humidity and the lack of air movement."

"Now superintendents will be able to control the environment over their



Nick Dvorak

troubled or pocketed greens during periods of stress, as well as control the potential for disease by delivering the proper air movement when and where they need it."

Tempest, which helped pioneer the use of portable power blowers in firefighting techniques, manufactures a complete line of 23 gas-powered and electric-powered blowers.

THE GREENS SENTINAL

A System Used By The TORO Company

Used by TORO on their upcoming, new Greensmaster series mower. You can now update any of your Greensmaster mowers or just order your new Greensmaster 3000 with The Greens Sentinal already installed.

Order from your TORO Distributor



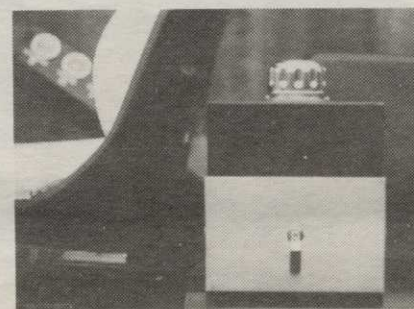
Don't let this happen to your green!!

CLAIMS:

1. Alarm sounds with a loss of only **three to five ounces** of oil.
2. Uses a uniquely patented floating chamber system
3. Indicates when oil pump has air leak (aeration of pump) on suction side of pump. Air in oil causes float to drop on contact points.
4. Easily bolted or clamped into your hydraulic system.
5. Allows for pitch and roll of greens.
6. Comes fully equipped to mount onto your mower.

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Protect your greens
from Hydraulic oil damage



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THE GLEANER: a core plug pusher



MODEL JP

SPECIFICATIONS

1. Two section blade will follow the contour of any golf green or tee.
2. Three-inch foot pad coming off blade helps catch and push plugs off greens and tees.
3. Unit will not damage green because of articulation of blades and foot pad area on bottom.
4. Blade width is 72 inches.
5. All heavy gauge metal.
6. Weight is 70 pounds.

SAVES TIME, LABOR & MONEY!

1. Go from a 4-man to a 2-man operation; one riding the mower with the plug-pusher, the other picking up plugs IN HALF THE TIME!
 2. Easy to mount and dismount from your greensmower.
 3. Buy one and keep it 'til you retire.
 4. Savings in time and labor will pay for your new plug pusher WITH ONE AERATION!
- ★ You can remove the plugs from a 7,500 sq. ft. green in about 20 minutes.
 - ★ There is no other product on the market that can remove the plugs from the green quicker and cleaner than THE GLEANER core-plug pusher.
 - ★ There is no cheaper product in the industry to remove your plugs from the green or tees. One use and it pays for itself!
 - ★ Other core-plug removal equipment might take two hours to install. Model TP installs in five minutes.
 - ★ If your mower breaks down, it only takes 5-7 minutes to be up and mowing again with your backup greensmower!



MODEL TP

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Kubota earns engineering award

COMPTON, Calif. — Kubota Tractor Corporation's FZ2100 front mower was recently named to the "Agricultural Engineering 50," an annual list — published by *Agricultural Engineering* magazine — recognizing outstanding innovation in products and systems. The FZ2100 was featured in the September issue.

Featuring the combination of zero diameter turn and auto assist differential four-wheel

drive, the 20-hp FZ2100 was recognized in the "AE 50" for outstanding engineering quality and for best addressing current market needs.

Each year a panel of engineering experts selects the "AE 50" from a pool of nominations from various agricultural-related companies. *Agricultural Engineering* is published by the American Society of Agricultural Engineers.



Bill Ryan



Bob Finkenbinder



Susan Randolph



Dennis Wagner

Rain Bird Maxi certification now GCSAA accredited

GLENDORA, Calif. — Rain Bird's Maxi Certification has received GCSAA accreditation. The GCSAA has approved requests to issue Continuing Education Units (CEU) credit upon successful completion of the exam covering levels 1 and 2. The Maxi program began in August, 1991, and was designed to help golf course superintendents become more proficient in the

daily use of their irrigation control systems. For more information on the Maxi Certification Program, call 818-852-7227.

...

Rain Bird recently awarded \$500 in scholarships to winners of the 1992 Golf Design Competition, held at Mississippi State University. During a golf course architecture class, students representing golf management, agronomy and landscape architecture organized into teams that designed complete golf course projects.

...

Dennis Wagner has been appointed golf manager for the Golf Division of Rain Bird Sales, Inc. In his new position, Wagner is responsible for the sale, specification and service of all golf course irrigation products in Texas, Oklahoma, Arkansas, Mississippi, Louisiana, Tennessee and Alabama.

...

Bob Finkenbinder has been named controller brand manager for the Golf Division of Rain Bird. In his new position, Finkenbinder will be responsible for all golf controller product development, maintenance of the line, and market planning. He has previously been the division's product manager.

...

Pat Loper has been appointed customer technical support manager for the Golf Division. In his new position, Loper will provide technical assistance to Rain Bird customers and take responsibility for supplying the division with updated technical product information. Prior to joining the Golf Division, Loper was the corporate parts service manager.

...

Susan Randolph has been named customer service technical assistant for the Golf Division. Her position is two-fold: She will handle technical calls and customer service issues, including order entry. Prior to joining the golf team, Randolph supported the Residential Technical Service Department desk.

...

In other Rain Bird news, Jim Gamble and Bill Ryan have been given the Outstanding Performance Award, the highest corporate honor bestowed by the irrigation manufacturer. They received this award for their leadership of the Eagle Team, a special group assembled to create a new Eagle series golf rotor. Gamble handled the engineering and production, while Ryan represented the marketing side. Under their direction, a major new product was developed in record time, utilizing a cross-functional team in a concurrent engineering effort.



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For over twenty years, Fore-Par accessories have been leading the way on golf courses around the world. Universally recommended by golf course superintendents, Fore-Par combines custom design with unparalleled workmanship, durability and ease of maintenance.

Renowned for the industry leading tubular swivel flag and modular flagpole, Fore-Par's better known innovations include the classic golf ball on a tee marker, the wedge shaped anti-

rebound tee marker, custom cast tee markers, truly distinctive practice green markers and our virtually indestructible elastosigns. For unlimited choices and consistent quality *it doesn't get any better than this.*

So equip your golf course with the finest accessories available. Call for your free Fore-Par catalog today!



Fore-Par: Your choice for distinctive golf course accessories. Personalized, non-personalized and custom

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New honored at Irrigation Expo '92

Leon New, an agricultural engineer with Texas Agricultural Extension Service, was named the Irrigation Association's 1992 Person of the Year during the IA's 1992 International Exposition and Conference, held last November in New Orleans.

This award is given annually to someone outside the irrigation industry, from government or a university, who has made outstanding contributions to further the acceptance of good irrigation practices and procedures.

Other IA honorees included **Roy Rogers**, senior vice president of planning and government relations for Arvida/JMB Partners of Ft. Lauderdale, Fla. Rogers was presented the Water and Energy Conservation Award for his work in planning, design and implementation of the irrigation system of the Weston Community in Fort Lauderdale.

Melvyn George Kay — A chartered civil engineer and a senior lecturer in irrigation engineering at Silsoe College, Cranfield Institute of Technology, United Kingdom — was the IA's Crawford Reid Memorial Award winner. Kay was honored for his promotion of sound irrigation procedures outside the U.S.

LeoRoy Thom, CEO of T-L Irrigation Company and Richard Reinke, founder of Reinke Manufacturing Company, both received the Industry Achievement Award, presented to individuals who have made outstanding contributions to the development of the irrigation industry.

The IA acknowledged nearly 50 years of dedicated service when it awarded **Marion Miller** a special Association Achievement Award. Miller, a founding member of the IA in 1949, is founder and president of Anderson-Miller Manufacturing Company.

The Manufacturers Representative Division of the IA named **Lon Schultz** as the first recipient of the Principal of the Year Award. Schultz is president and owner of Agricultural Products, Inc.

...

Three members of the new IA Board of Directors were ratified during the IA Annual Meeting, held in conjunction with the International Irrigation Exposition and Technical Conference in New Orleans.

Sam "Bo" Duke, president of Russell Daniel Irrigation of Athens, Ga., was confirmed as treasurer of the IA. Duke served a three-year term on the Board of Directors, ending this year.

David Ransburg, chairman of L.R. Nelson Corporation of Peoria, Ill., was confirmed as an association director. Ransburg, who has been with L.R. Nelson for 20

IRRIGATION UPDATE

years, served as chairman of the IA Public Affairs Council from 1978-79.

Michael Donahue, president of Aquamaster Irrigation Products, Ltd. of Thornhill, Ont., was also confirmed as a director. Donahue has served three years

on the IA's Long Range Planning Council, of which he is now chairman.

...

Before the November Annual Meeting and conference, the IA's Board of Directors voted to contribute \$1,000 to the **Future Farmers of America College Scholarship Program**, introduced in 1984 in response to rising education costs and declining enrollments in colleges of agriculture across the nation.

ASPA to create Warren Fund?

The American Sod Producers of America (ASPA) Board of Trustees is contemplating the establishment of a Ben Warren Memorial Fund, to recognize and honor the contributions and achievements of the ASPA's founding president, who died this past August.

The Board has indicated formation of such a fund would be an appropriate memorial for Mr. Warren, but members need to indicate the extent to

which they would support such an endeavor.

Be aware that, at this time, contributions to an ASPA memorial fund would not be considered by the IRS to be a fully deductible donation to a charitable foundation. However, it may be deductible as a normal business expense.

Make your opinion known. Call 708-705-9898; or write ASPA, 1855-A Hicks Road, Rolling Meadows, Ill., 60008.

Q. Which turfgrass stays green around and under trees, even at this time of year?



A. Oregon Grown Fine Fescue, for sure!

Call or write for literature about this terrific turfgrass.

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CIRCLE #174/BOOTH #1663



Ransomes realignment:

Brouwer manufacturing operation moves in with Ohio-based Steiner Turf Equipment

Ransomes America Corporation has announced the transfer of manufacturing operations at Brouwer Turf Equipment, Ltd. in Keswick, Ontario, to the manufacturing plant of Steiner Turf Equipment, Inc. in Orrville, Ohio.

The transfer should be completed by mid-1993, according to Ransomes officials.

Brouwer will continue to maintain a marketing and service office in Keswick. The firm's products include sod harvesting machines. The company, which has 50 employees, has been manufacturing equipment associated with the sod harvesting industry since 1972.

"The sales volume of these products, in relation to the large manufacturing plant, could not justify the continued operation of the current facility," explained Ransomes President Irv Aal. "This transfer will provide the manufacturing efficiencies required to remain cost competitive in today's environment."

Headquartered in Minneapolis, Ransomes America has manufacturing facilities in Lincoln, Neb.; Edgewater, Fla.; and Johnson Creek, Wis. These plants, which manufacture the Cushman, Ransomes and Ryan product brands, are not affected by the Brouwer-Steiner transfer.

"This transfer of manufacturing operation," Aal added, "has been designed to ensure that our service to our dealers and customers will continue without interruption during this transition."

Pre-emption law

Continued from page 69

equally clearly why state pre-emption is needed."

On pages six and seven of his memorandum, Judge Haas writes, "While the Township of Mantrap seeks to protect the environment by its Ordinance, such an ordinance, were it to be enforced in this Township and others with the state of Minnesota, could create a patchwork of regulations making it practically impossible to meet disasters and resolve them."

Haas cites Dutch Elm Disease and gypsy moth infestation as examples.

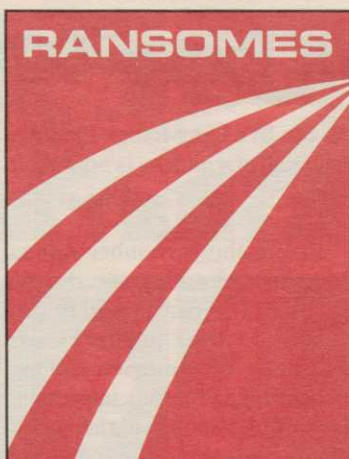
While the golf industry is not as concerned with fighting agricultural disease on a statewide scale, the "patchwork of regulations" would make life very difficult for golf courses that straddle town boundaries; and for developers looking to create golf course communities located in more than one municipality.

Further, the prospect of a single town banning an EPA-approved chemical remains a possibility in states without pre-emption legislation.

'The sales volume of these products... could not justify the continued operation of the current facility'

— Irv Aal,

Ransomes president



This is the new corporate logo for Ransomes America Corporation.

Yolitz new marketing head at Ransomes

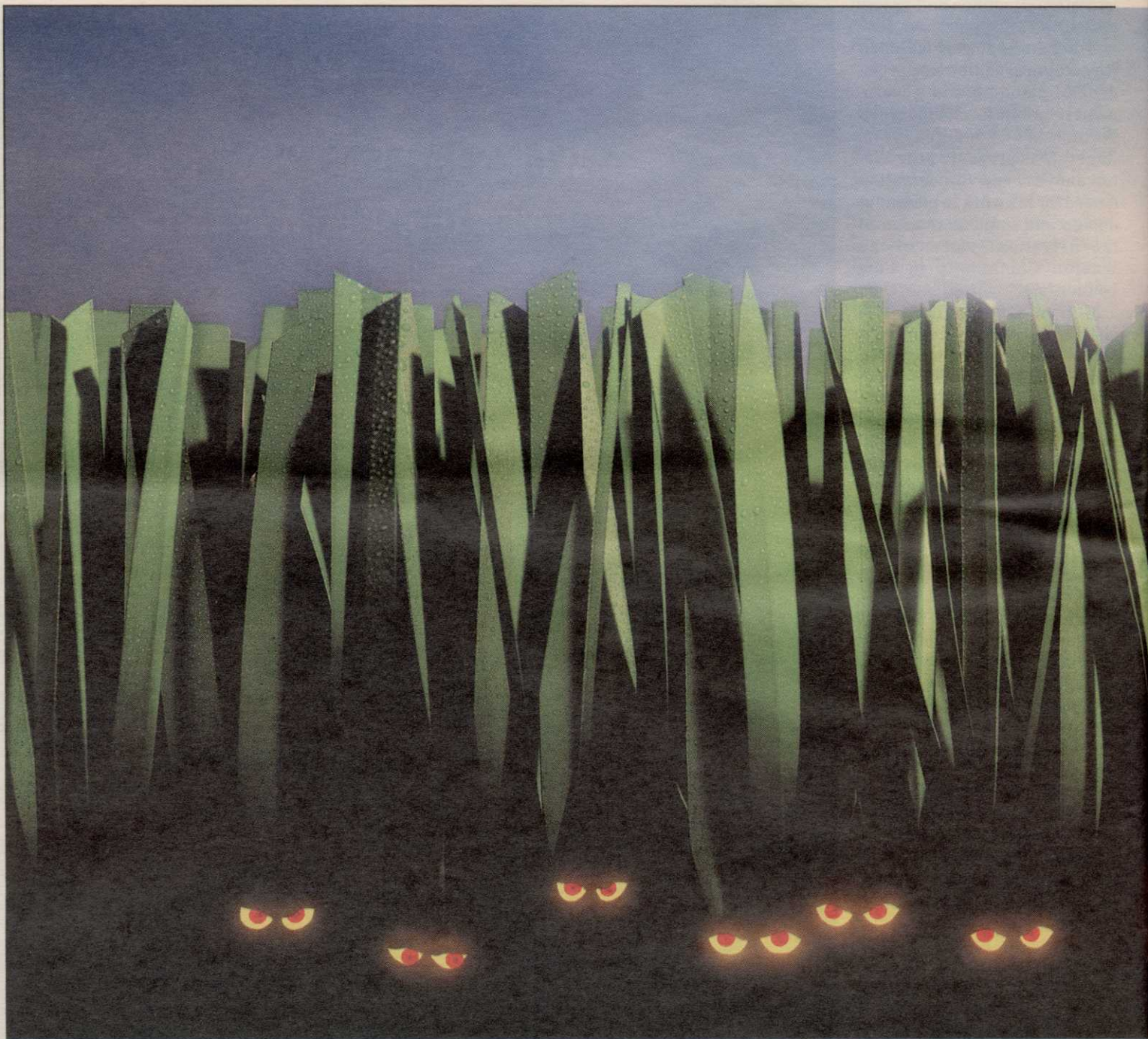
Steve Yolitz has joined Ransomes America Corporation as director of marketing. In his new position, Yolitz will be responsible for integrating Ransomes' various marketing functions to more effectively meet the needs of the company's industrial and commercial clients, plus the turf and professional



Steven Yolitz

lawn care customers.

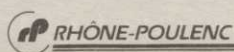
Yolitz comes to Ransomes America from J.I. Case Company, where he gained 13 years of experience in construction and farm equipment marketing and product management. Most recently he served as product director for Case's worldwide skid steer loader and trencher business.



PYTHIUM. YOU CAN'T HEAR IT. YOU CAN'T SEE IT.

There's one sure way to turn your tournament-condition tees, greens and fairways into so many acres of rough: ignore Pythium blight. Because, as sure as the sun sets in the west, Pythium will strike. Unless you've protected your turf with the best Pythium prevention on the course

today: CHIPCO® ALIETTE® brand fosetyl Al fungicide. CHIPCO® ALIETTE® doesn't just cover turf, it actually gets inside each blade of grass—including the roots—to deliver powerful systemic protection other fungicides just can't match. And it stays on the job for up to 21 days with



©1992 Rhone-Poulenc Ag Company, 2 T.W. Alexander Drive, Research Triangle Park, NC 27709. For additional information, please

Grace-Sierra touts list of Margosan-O enhancements

MILPITAS, Calif. — Grace-Sierra Crop Protection Company has announced the following series of enhancements to its Margosan-O Botanical Insecticide:

- The list of pests controlled by Margosan-O has been expanded to include aphids, weevils (even the black vine variety), psyllids, webworms, hornworms, spruce budworms and pine sawflies.

- Margosan-O has been reformulated to remove waxes from the product.

- The U.S. Environmental Protection Agency has approved removal of the dating codes from Margosan-O's label, recognizing the products minimum two-year shelf life.

- Margosan-O is now available in smaller, quarter-size packages.

...

MILPITAS, Calif. — Grace-Sierra Crop Horticultural Products has announced that **Peters Excel Water Soluble Fertilizer line has received a U.S. patent** for the precipitate-free concentrated

stock solution obtained by dissolving the Peters Excel products in water.

Peters Excel represents the first product line of its kind on the market — allowing growers to obtain, in one tank, a nutrients solution which contains all the major, secondary and trace elements, including calcium, magnesium, phosphorus and sulfates. Other U.S. and foreign patents are pending.

"Never before have growers been able to combine all essential

elements and sulfated trace elements in one concentrate," noted Robert Peters, founder of Peters Professional Plant Food, who along with Richard Vetanovetz, director of product development-Horticulture Applications, Grace-Sierra Horticultural Products Company, is credited with developing the technology. "Peters Excel provides all essential elements without requiring that professional growers develop intricate nutritional management programs."

Arizona EPA okays Dimension

ST. LOUIS — The Arizona state Environmental Protection Agency has signed off on Dimension, a turf herbicide manufactured by Monsanto Company.

Most states in the Union registered Dimension in June, 1991. These registrations included fertilizer combinations and a 0.25 percent clay granule, following the registration and commercial introduction of an emulsifiable concentrate (EC) formulation of Dimension in June, 1991.

The active ingredient in Dimension, dithiopyr, represents a new class of chemistry developed by Monsanto. It's designed to feature low application rates, exceptional turf safety and season-long control of crabgrass — though Monsanto does recommend its use on golf greens.

Expanded label for Daconil 2787

MENTOR, Ohio — Under an expanded label recently accepted by the U.S. Environmental Protection Agency, the disease control of Daconil 2787 flowable fungicide now extends to 55 damaging diseases.

In turf, Daconil 2787 fungicide — manufactured by ISK Biotech — is now labeled for control of algae scum, as well as a broader range of the fungal pathogens that cause dollar spot, brown patch, leaf spot, melting-out, brown blight and other diseases.

According to ISK Biotech Product Manager Richard Garrett: "The new and expanded label for Daconil 2787... demonstrates ISK Biotech's commitment to maintaining the availability of Daconil 2787 at a time when other fungicides have been lost from the marketplace."

CoRon Corp. turns five

SOUDERTON, Penn. — CoRon Corporation, the patent holder and manufacturer of CoRon Controlled Release Nitrogen (CRN), recently celebrated its five-year anniversary with a small ceremony here.

Joh Moyer, president and CEO, Ken Clemmer, vice president and GM, and David R. White, director of marketing, were on hand for the celebration. CoRon CRN, developed by veteran chemist Dr. William Moore, is a fertilizer solution used for direct application and as an ingredient in complete N-P-K fertilizer solutions.



IT. AND YOU DEFINITELY CAN'T IGNORE IT.

each application. You can even use CHIPCO® ALIETTE® to control Pythium and Phytophthora on your high-value ornamentals.

Now, how's that for convenience and flexibility? Remember, as temperature and humidity rise, so does



the likelihood of Pythium tarnishing your hard-earned reputation. This year, strike first with the proven performance of CHIPCO® ALIETTE® brand fungicide.

Available in an easy-handling,

Chipco Aliette® WDG low-dust formulation.

Brand Fungicide

call: 1-800-334-9745. As with any crop protection chemical, always read and follow instructions on the label. CHIPCO and ALIETTE are registered trademarks of Rhone-Poulenc.

CIRCLE #175/BOOTH #2826



Gard Crow,
Hunter
Irrigation

American suppliers see Canadian market as 'mixed bag'

By MARK LESLIE

HALIFAX, Nova Scotia, Canada — The Canadian market for golf course suppliers is a mixed bag of changing, but lucrative proportions, according to company representatives attending the 44th Canadian Turfgrass Conference and Trade Show here in December.

"Our Western distributors have been breaking records every year for years," said Jim Byrnes, advertising manager for Jacobsen Texton.

Tim MacNeil, district manager for Canadian Kawasaki Motors Inc. in Don Mills, Ontario, said sales have climbed steadily in Canada over the last three years.

"The turf market is hard to break into. But the distribution network is established now," he said.

Scott Watson, who works with his father — course architect John Watson, in Ontario — explained golf course construction boomed four or five years ago.

"It's slowed since then, but is

still more than before," he said, adding that many older courses are remodeling.

"About 40 percent of our work is renovations — contouring greens, resurfacing, rebunkering, replacing irrigation," Watson said.

That improvement work means revenue for many segments of the industry.

Gard Crow, golf sales manager for Hunter Irrigation in San Marcos, Calif., said 50 percent of his company's work in its four years in Canada has involved

redos and retrofits.

Crow said it was hard to rate the success of 1992, but it was "relatively good considering it was a very wet year," in which his distributors "lost 45 days of work."

Joe Couillard, president of Oak Creek Golf and Turf Inc. in Calgary, Alberta, said 50 percent of his sales in 1991 were to new golf courses. That dropped to 30 percent in 1992.

"Golf is on the upswing here," Couillard said.

Harry Larson, regional sales manager for Texton, said the recession in the Northeast United States "has been felt to a lesser degree up here."

"A lot of developers relied on new golf courses related to real estate. When the real-estate market went to pot, the same happened to the golf market," Larson said. "But Canadians love their golf."

Saying that Canadian sales have been good in the last decade, Larson explained: "In Canada, especially, they demand better and better playing conditions. And course superintendents have to upgrade their equipment to meet these demands."



Even though TMI stands for Turf Merchants Inc., a lot of our customers tell us it should stand for Turf Marketing Innovators.

Why? Because over the years, we have listened to what our customers wanted. TMI has made every effort to provide the kind of grass seed varieties, service and marketing aids that help our customers be the best turf professionals. Quality is never compromised.

Here are just a few examples...

Varieties Developed for Specific Markets

Today many grass seed companies have top rated varieties that perform well in overall turf quality. But when spring transition time comes they just keep on going. Our customers wanted varieties that offered a smoother spring

transition...This is why TMI developed varieties with less heat tolerance, and of unusually high quality, especially for Southern overseeding.

When our customers wanted turf type tall fescues with shorter stature and finer leaves, TMI was the first to introduce a true dwarf turf type tall fescue—Bonsai.

Lowest Cost Producer

A lot of grass seed companies claim to be the largest. At Turf Merchants, our goal is not to be the largest but to be the most efficient: This enables TMI to produce and sell our high quality, top rated turf grass varieties at a price that doesn't include burdensome overhead.

No Frills. No Surprises. Just Great Customer Service.

Our promise is not to add on anything that will add to the

cost of our seed unless you want it...special coatings, treatments and packaging are available on request. Otherwise, your order is shipped direct from the grower to you, arriving on time! Most important, TMI does not allocate customers. You know what you are getting. If you've bought it, you'll get it!

If you like the innovations mentioned here, we invite you to join our growing list of customers...turf professionals who have made our growth, progress and "innovations" possible.



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Glattly forms Twin City Seed Company out of Minneapolis

MINNEAPOLIS — John C. Glattly, a 17-year seed industry executive, has announced the formation of Twin City Seed Company. Glattly is principal stockholder and president.

Twin City Seed is a distributor and marketer of all types of seed, with primary emphasis on professional turfgrass seed sales in the Midwest. Twin City Seed also represents and sells national seed company proprietary products to various classes of trade, including garden centers, lawn care companies, sod growers and other chains. Twin City Seed also distributes to the agricultural market.

Glattly was most recently director of NK Lawn & Garden Co.'s Medalist Turf Division, leaving that position to form Twin City Seed. He has worked for several regional and national seed companies including Whitney-Dickinson Seeds, Great Western Seed Co. and Lesco Inc.

Twin City Seed is headquartered at 7263 Washington Ave. South, Minneapolis, Minn., 55439.



John Glattly

T U R F

RYEGRASSES

PATRIOT II	NOMAD
ALLAIRE II	PENNFINE
RODEO II	MANHATTAN II (E)
AQUARIUS	STALLION
AQUARIUS II	BLENDS
EVENING SHADE	VIP II e
	SPECTRUM

G R A S S

TALL FESCUES

BONSAI	BONSAI PLUS
TAURUS	TWILIGHT
AZTEC	SUNDANCE
ANTHEM	BRAHMA
EARTHSAVE	RECYCLER
MICRO	BLENDS
ADVENTURE	TURF GEM II
AVANTI	TURF GEM JR

V A R I E T I E S

BLUEGRASSES

COBALT	ALLURE
CHELSEA	ABLE 1
GNOME	VIVA
GNOME II	BLENDS
A-34	TRUE BLUE

SPECIALTY GRASSES

CYPRESS POA TRIVIALIS
ATTILA HARD FESCUE
ZEN ZOYSIA
CD-68 BERMUDA
CD-68-1 BERMUDA

Greens rollers

Continued from page 69

Clubs that hand mow could use an old triplex and convert it to a roller. Instead of retiring a triplex mower, a club now can attach a roller to it. Many of these clubs do use triplex mowers in the spring and fall when they're short on help.

Further, Kinzer pointed out the advantage that the QuickRoll is not a dedicated machine.

"A roller has one function," he said. "But you don't need it daily, or perhaps even weekly. If you have a dedicated machine, it's expensive. But everyone has a greens mower. And here's a kit you can use to switch from a greens mower to a roller."

The QuickRoll assembly can be installed in about 30 minutes, is adjustable from 90 to about 120 pounds, and applies four to five pounds of force per inch of roller length, according to Jacobsen's fact sheet. The cost: \$2,200. Kinzer said the equipment was available eight years ago but there was no interest in it.

"Superintendents were content with what they had," he said. "Since then, everyone's become more conscious of ball speed. With that evolution, this came back to the surface."

Dobie called greens rolling "another tool like a verticut or groomer. I see our application as being for tournaments, or events where you want the speed a little faster than normal. But it has advantages in other ways, too. This morning we rolled instead of mowed because we had very little growth overnight."

"Another application comes after top dressing greens. The first couple of days afterwards, the sand tears the mowers up and, since the blades get dull, you're not doing a very good job of cutting anyway. Instead of mowing the next two days, we roll. In theory it sounds good. It makes the mechanic very happy."

Kinzer said one superintendent used the QuickRoll after overseeding his greens, rolling diagonally to the seeding pattern, and "it worked beautifully."

Dobie believes superintendents will do a lot of experimentation with rolling. "I don't know if anyone is going to get on a full-time rolling program," he said. "The easier and faster it is, the more people will use it."

Scotts proceeds with \$14.7m expansion

MARYSVILLE, Ohio — The O.M. Scott & Sons Company recently held a ribbon-cutting ceremony for its new Bulk Blend facility.

On hand for the two-hour celebration were Gerald Eyerman, supervisor of the Bulk Blend plant, SREF and receiving; Mike Kelty, VP of research and development; Ron Wietelmann, director of manufacturing; and Ted Host, president and CEO.

Completion of this facility, in late August, was the first of a three-part expansion process for the

company. Construction of a new polymer encapsulation plant and conversion of an existing facility to a new, methylene urea granulation technology will be finished in the fall of 1993.

A \$14.7 million capital investment, this expansion is the largest in the company's history.

"This is a major investment in terms of satisfying our customers' needs for highly advanced products and excellent customer service," said Dick Stahl, vice president and general manager of the Professional Business Group.

Shampeny goes from Toro to Bunton

LOUISVILLE, Ky. — The Bunton Co. has hired Gary Shampeny, an eight-year veteran of competitor Toro, as the new vice president for sales and marketing.

Shampeny, most recently golf operations manager for Toro, was a golf course superintendent in Bozeman, Mont.

"Gary has the perfect back-



Gary Shampeny

ground to provide the leadership Bunton needs in new product development and customer service for both turf and golf," said Larry O'Connell, chairman and chief executive officer.

Shampeny is a Vermont native and Montana State University graduate.

JOIN THE TURF CLUB



Membership has its advantages. Kubota offers the most reliable mowing and vertical cutting unit on earth—the Verti-Reel.

Built for total turf maintenance whether you have golf courses, sports fields, sod farms or commercial mowing applications, the Verti-Reel provides vertical cutting and mowing in one proven unit.

Verticut 18 holes in less than a day. Outcuts triplex mowers. Easy mowing/verticutting head changeover. Power pack mounted conveniently on tractor's three-point hitch. Direct drive hydraulics for consistent cutting speed.

How your tractor performs can have a significant impact on the efficiency of your operations. Kubota excels with direct-injection diesel engines in both the M4030SU Turf Special and L3250F Turf Special for greater power, performance and economy.

The advantages of Turf Club membership are numerous. To find out more, write Kubota Tractor Corp., P.O. Box 7020-T, Compton, CA 90224-7020.



Kubota



The Course-Master features a water-injected spray.

Enclosed sprayer designed for speed & safety

The Course-Master, new from May-Wes Manufacturing, Inc. of Mankato, Minn., is designed to do a first-class job of spraying a golf course — in half the time. Course-Master features a water-injected spray, so the chemicals are not mixed with the water until the moment of application. Sprayer control is variable along the length of a single boom.

Wide flotation tires apply less pressure per square inch than a person walking, and the air-conditioned cab provides a charcoal-filter system to limit the operator's exposure to chemical fumes. For more information, call 507-834-6572; or write May-Wes at 216 Maxfield St., P.O. Box 3089, Mankato, Minn. 56002.

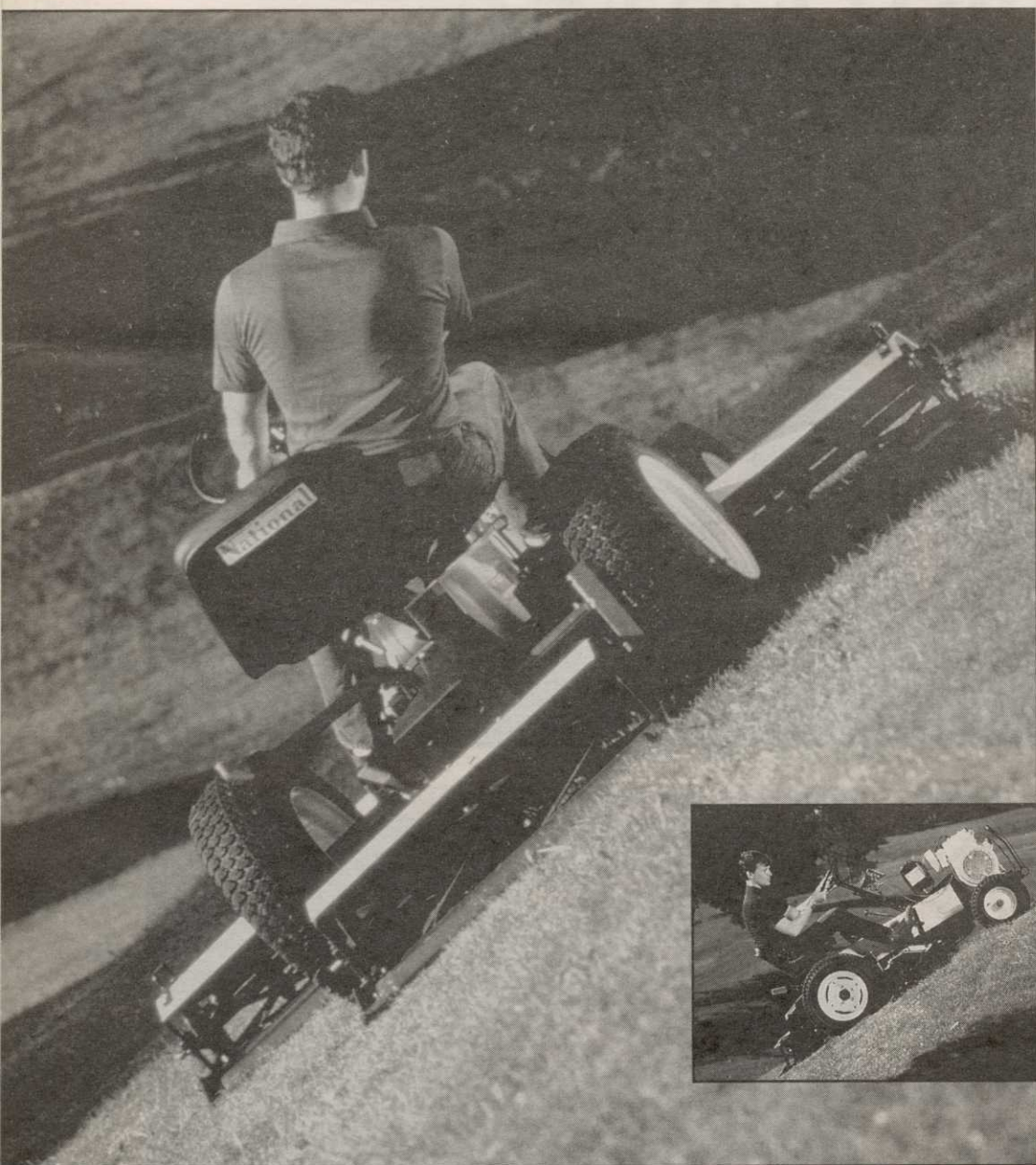
CIRCLE #301

Scott provides Poly-S for Turf Nitrogen

Turf Nitrogen, from the Professional Business Group of the O.M. Scott & Sons Company, is now available with Scotts new Poly-S fertilizer coating technology. Part of the Proturf line of products, it has a 40-0-0 analysis. The improved fertilizer provides controlled release Poly-S nitrogen, designed to provide good initial green-up and sustained greening response. Sufficient sulfur helps correct deficiencies and maintain adequate soil levels. For more information, call 614-846-7777; or write Scotts at 14111 Scottslawn Road, Marysville, Ohio 43041.

CIRCLE #302

"The Performance Edge"



If your turf is challenging the performance of your mower, get the National Triplex 84" Reel Mower.

The National 84" Triplex has proven itself on many of the world's top golf courses as one of the most agile and reliable full-sized riders ever built. The amazingly lightweight footprint along with superior agility and control allows you to cut hours off your cutting time by getting to those hard-to-cut slopes and valleys.

Like all of our mowers, the 84" Triplex was designed from the grass up with Performance, Reliability, and Value in focus.

The 84" Triplex features floating outboard reels mounted to a heavy-duty, low-profile frame with extra-wide tires and one of the most dependable engines available. The controls and transmission have been kept simple in design and rugged in construction for years of trouble-free operation on the most difficult to cut areas.

Yet, with all this performance and long running reliability, the National 84" Triplex has a substantially lower price than any other mower in its class, so your budget will perform better as well.

The National 84" Triplex; designed for superior performance on the grass and in the budget.



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Reel Value Since 1919

For your nearest National Mower dealer or a FREE video of the 84" Triplex, call... (612) 646-4079

700 Raymond Ave.
St. Paul, MN 55114



CIRCLE #178/BOOTH #2213

Double walls on new Lube Cube

Lube Cube has increased the level of protection now provided by its Vault Tanks by offering a UL listed double wall inner tank. The standard Lube Cube Vault features two steel tanks, with a six-inch concrete vault poured in between for thermal protection.

Now the new double wall inner tank adds an extra measure of safety. Lube Cube Vaults comply with the 1991 Uniform Fire Code and the NFPA-30, and offer safe storage for flammable and combustible liquids. Sizes range from 250 to 10,000 gallons.

For more information, call Darleen Bauer at 1-800-777-2823; or write Lube Cube at P.O. Box 396, Severna Park, Md. 21146.

CIRCLE #303

Neary weighs in with sharper 500 S model

ELK RIVER, Minn. — Neary Manufacturing has announced the newest addition to its line of reel-sharpening equipment. The 500 S spin sharpening system offers three-way ridged mounting, streamlined set-up and true cylinder sharpening.

The 500 S features adjustable 1-45 degree relief grinding capabilities to help reduce drag between the reel and bedknife. This unique feature can be added to your machine any time. If increased production and computer assisted sharpening accuracy are important, the 500 ASR with automatic control is also available.

For more information on this and other Neary products, call 1-800-223-4973; or write Neary at 19228 Industrial Blvd., Elk River, Minn., 55330.

CIRCLE #304

Brouwer's RM-22 cuts a 22-foot swath

The new Brouwer 22-foot wide rotary finishing mower was designed to produce a high quality of cut on all turf grasses in high acreage situations. In fact, a RM-22 can mow up to 20 acres of turf per hour.

The three 92-inch discharge decks are made with Algo-Form 60-10 gauge material which is abrasive and corrosive-resistant. Each mowing deck has three heavy duty blade spindles that incorporate high load capacity double Timken taper unit bearings.

A double V-Belt drives each blade spindle and has a self-adjusting spring-loaded tensioning

idler to prevent belt slippage and improve belt life. When the mowing is complete, the decks can be raised hydraulically into a narrow transport width of under 10 feet. In this position the mowing deck blades can be easily changed or sharpened.

For more information on the RM-22 and other Brouwer products, call 1-416-476-4311; or write Brouwer Turf Equipment, Woodbine Avenue, Keswick, Ontario, Canada, L4P 3E9.

CIRCLE #307



The Heftee 1300 Service Lift

Service lift designed for smaller vehicles

OREGON, Ill. — Heftee 1300 Service Lift, designed to ease access to the underside of small three and four-wheeled vehicles, has been introduced to the market by McCanse Engineering, Inc.

The Heftee 1300 (\$1,975, according to manufacturer) raises the vehicle up to 67 inches and usually allows mechanics to stand upright under power units and mower decks. It accommodates decks up to 60 inches wide and tire treads up to 44 inches wide on units weighing up to 1,300 pounds.

For more information, call President Ed McCanse at 815-732-7540; or write McCanse Engineering, Inc., 949 Etnyre Terrace Road, Oregon, Ill., 61061.

CIRCLE #308

New Greens King 422 from Jacobsen

Jacobsen's all new Greens King 422 walking greens mower is designed to deliver an exceptional cut, true tracking and easy servicing — all with a high degree of operator comfort.

A new 11-blade reel gives the 422 a tight cutting frequency. The compact rollerbase allows it to follow undulations closely. The 422 can also be fitted with Jacobsen's exclusive Turf Groomer greens conditioner, designed to create healthier, faster greens without a lower height of cut.

Balanced design makes the 422 track straight for beautiful striping. A unique clutch design transfers power smoothly to the tractor roller. The drive system has just three belts and the entire system is dry.

For more information on these and other Jacobsen products, call 414-635-1251; or write Jacobsen Div. of Textron, Inc., 1721 Packard Ave., Racine, Wis. 53403-2564.

CIRCLE #306

Accu-System blade, new from Foley

RIVER FALLS, Wis. — Comprising the Accu-600 Spin/Relief Reel Grinder and the Accu-610 Bedknife Grinder, the Accu-System from Foley United is designed to sharpen any reel on the market today including gang, fairway, riding and walk-behind mowers. The Accu-System accurately grinds reels and bedknives to bring them back to the manufacturers' original specifications. Featuring positive infeed, height and reel adjustments, the Spin/Relief Grinder provides a dial indicator for positive verification of alignment of in-frame reels for grinding accuracy.

For more information, call 612-498-7910; or write Foley United Company, A Division of Foley-Belsaw, 393 Troy Street, River Falls, Wis., 54022.

CIRCLE #305

Manhattan II helps smooth out the roughs at Inverness

Tom Walker on Endophyte:

"Using Manhattan II perennial ryegrass with endophytes gives me a biological alternative to managing chewing/ sucking insects. I have seen no damage from these insects, even though I have not applied insecticides. It makes good sense to work with nature whenever possible."

INVERNESS CLUB, TOLEDO — Superintendent Tom Walker chooses Manhattan II to overseed roughs at this prestigious club because of its wear resistance, quick establishment, dark green color and drought and disease tolerance. But Tom finds Manhattan II's big plus is *density*. Manhattan II actually produces more leaves per plant, an economy sometimes overlooked.

This increased basal tillering, coupled with Manhattan II's lower crown help 'heal' shallow divots by spreading laterally. This is why Manhattan II is used to overseed the range tees at Inverness, too.

Manhattan II was developed to take the abuses hard use areas demand, and look good while doing so. Give it a divot. Rough it up a bit. Manhattan II can take it. Just ask Tom Walker at Inverness Club.



Watch the 1993 PGA Championship from Inverness Club, August 12-15.

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Manhattan II

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Turf-Seed, Inc.

PO Box 250, Hubbard, OR 97032
800-247-6910
503-651-2130/FAX 503-651-2351

Smithco adds three to golf product line

Smithco has introduced three new products to its line of golf course equipment:

- **Greens Sweep** — a newly designed, patented, top-dressing greens brush which provides an exclusive side-to-side brushing action. It's designed to work top dressing down into the grass more evenly, more efficiently, and in less time. The brushes are 36-inches wide with soft and pliable polypropylene bristles, the height of which are easily adjustable.

- **The Reel Thing greens syringer**, trailer-mounted with an electric-hose rewind system, is designed to simplify the job of watering greens. With a rotating hose guide,

both nozzle and hose are accessible from either side of the reel.

- **The new Tournament Roller** weighs 600 pounds and delivers a PSI of 4.4 with its operator aboard. However, it offers variable weight options which can increase its weight up to 800 pounds. Its Smithco-exclusive rollers are tapered to provide compound articulation in following undulations and delivering equalized weight and pressure. For more information on these and other Smithco products, call 215-688-4009; or write Smithco at 11 West Ave., Wayne, Penn. 19087.

CIRCLE #309

Super C.U. sprinkler nozzles from Weather-Tec

Weather-Tec has responded to the need for improved water distribution on large turf areas with the introduction of Super C.U. sprinkler nozzles. By replacing standard straight bore nozzles with this new design, the profile of the sprinkler is optimized, resulting in the highest possible uniformity for the existing pressure and spacing. Tests performed by the Center for Irrigation Technology in Fresno, Calif., show water application savings of up to 40 percent, more even application of fertilizer and reduced energy costs.

Weather-Tec has also introduced the

industry's first series of metal valve-in-head sprinklers for golf and large turf areas. They have been designed for retrofit of plastic systems.

In addition to brass and stainless steel construction, they have the following features: electric or hydraulic operation, metal lids, no leaks, hydraulic power-up and power-down of full three-inch rise. The product will be unveiled at the GCSAA show in Anaheim. For more info, call 209-291-5555; or write Weather-Tec at 5645 East Clinton Ave., Fresno, Calif. 93727.

CIRCLE #310

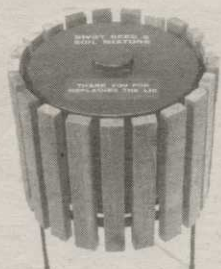
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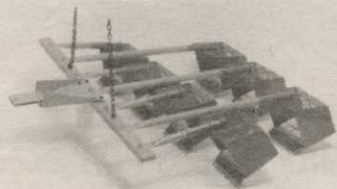
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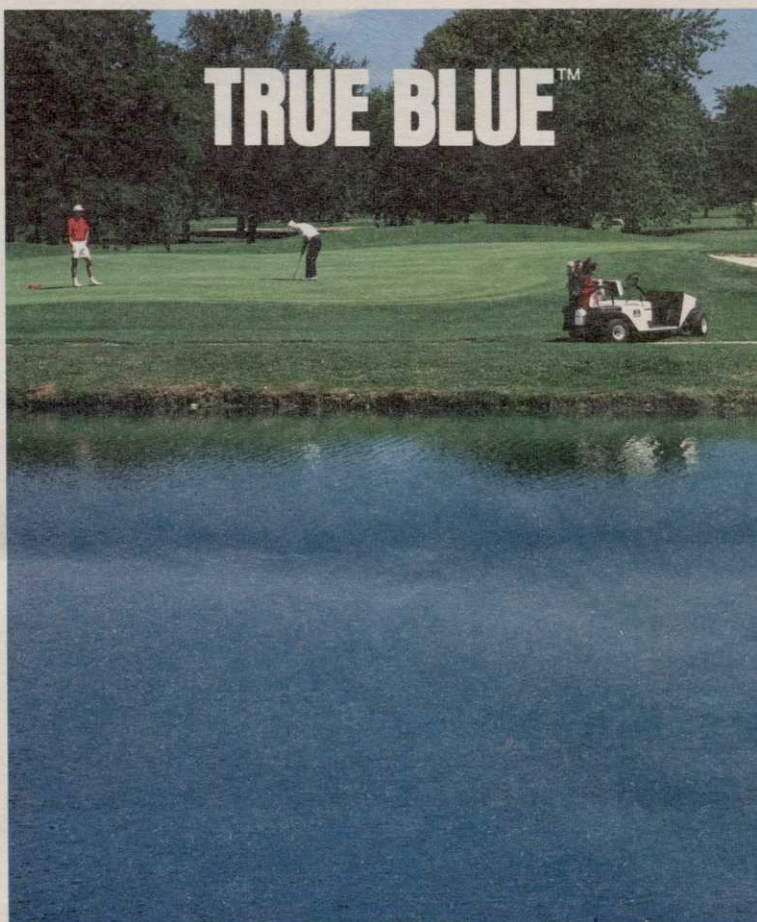
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January

7 — GCSAA seminar on Maximizing Turfgrass Disease Control in Atlanta, Ga.*

10 — GCSAA spray technician training program in Little Rock, Ark.*

11-15 — Cornell Cooperative Extension Turfgrass Short Course at Cornell University, Ithaca, N.Y. Contact Joann Gruttadaurio at 607-255-1792.

12 — GCSAA spray technician training program in Galena, Ohio.*

13-15 — 31st Annual North Caro-

lina Turfgrass Conference and Show in Winston-Salem, N.C.

14-15 — New Hampshire Turf Conference in Manchester.

14-16 — Mid-America Horticultural Trade Show in Chicago. Contact 708-526-2010.

17-19 — Empire State Tree Conference in Suffern, N.Y. Contact 518-783-1322.

18 — Ga. GCSA Mechanics Seminar in Acworth. Contact Karen White at 706-769-4076.

18-20 — 59th Iowa Turfgrass Conference in Des Moines. Contact 515-294-0027.

18-21 — 33rd Va. Turf & Land-

scape Conference & Trade Show in Richmond. Contact 804-340-3473.

18-21 — Eastern Pa. Turf Conference & Trade Show in King of Prussia. Contact 814-863-3475.

18-22 — Cornell Cooperative Extension Turfgrass Short Course at Cornell University, Ithaca, N.Y. Contact Joann Gruttadaurio at 607-255-1792.

20-21 — 29th Annual Northern California Turf & Landscape Exposition in Santa Clara. Contact 510-516-0146.

21-24 — Turfgrass Management/Park Maintenance Training School in Albany, N.Y. Contact 800-873-TURF.

21-31 — GCSAA International Conference and Show in Anaheim, Calif.*

27-29 — Wyoming Groundskeepers and Growers Ass'n annual conference and trade show in Casper. Contact Bruce Potter at 307-637-7060.

29-30 — Jacksonville Horticultural Trade Show in Jacksonville, Fla. Contact 904-387-8850.

30-Feb. 2 — PGA Merchandise Show in Orlando, Fla. Contact 407-624-8400.

February

1-5 — National Golf Course Owners Association Annual Meeting in

Orlando, Fla. Contact 803-577-5239.

3-4 — New England Grows in Boston, Mass. Contact 617-431-1622.

3-5 — American Sod Producers Ass'n Midwinter Conference in New Orleans. Contact 708-705-9898.

3-5 — Mid-America Green Industry Convention in Kansas City, Mo. Contact Olivia Golden, PLCAMA, P.O. Box 35184, Kansas City, MO 64134.

8 — GCSAA spray technician training program in Dallas.*

9-13 — National Arborists Ass'n Annual Meeting and Management Conference in St. Petersburg, Fla. Contact 603-673-3311.

10 — GCSAA spray technician training program in San Antonio, Texas.*

11-12 — GCSAA seminar on Disease Identification and Control in Pittsburgh.*

15 — Ga. GCSA Spray Technician Seminar in Duluth. Contact Karen White at 706-769-4076.

16 — GCSAA spray technician training program in San Marcos, Calif.*

17 — Inland Northwest Turf and Landscape Trade Show in Spokane, Wash. Contact 534-4161.

18-19 — GCSAA seminar on Disease Identification and Control in Normal, Ill.*

21-25 — Club Managers Association of America Annual Conference and Exposition in Nashville, Tenn. Contact 703-739-9500.

23 — Irrigation Specialist Training Seminar in Fort Myers, Fla.*

23 — GCSAA spray technician training program in Atlanta.*

23-25 — Western Pa. Turf Conference & Trade Show in Monroeville. Contact 814-863-3475.

23-26 — International Erosion Control Ass'n 24th Annual Conference and Trade Expo in Indianapolis. Contact 303-879-3010.

24-25 — GreenTECH 14th Annual Landscape Industry Show in Long Beach, Calif. Contact 916-448-2522.

25 — GCSAA spray technician training program in Franklin, Tenn.*

25-26 — Advanced Turfgrass Management Symposium at Cook College, Rutgers University in New Brunswick, N.J. Contact 908-932-9271.

27 — Golfcourse Info Days '93 in Munich. Contact 49 971 3024.

March

1-3 — Massachusetts Turf Conference and Industrial Show in Springfield. Contact 508-831-1225.

2 — 25th Annual Professional Turf & Plant Conference in Huntington, N.Y. Contact 516-665-2250.

2 — GCSAA spray technician training program in Owings Mills, Md.*

2-3 — GCSAA seminar on Golf Course Restoration, Renovation and Construction Projects in

Continued on page 83

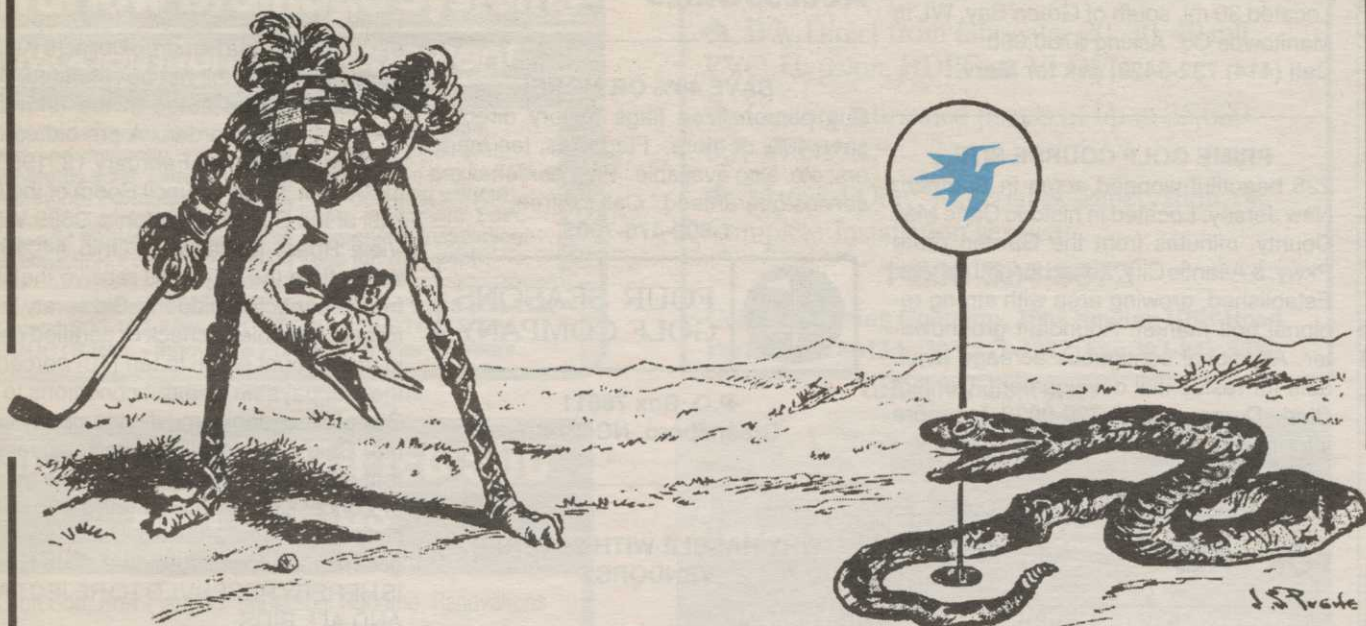
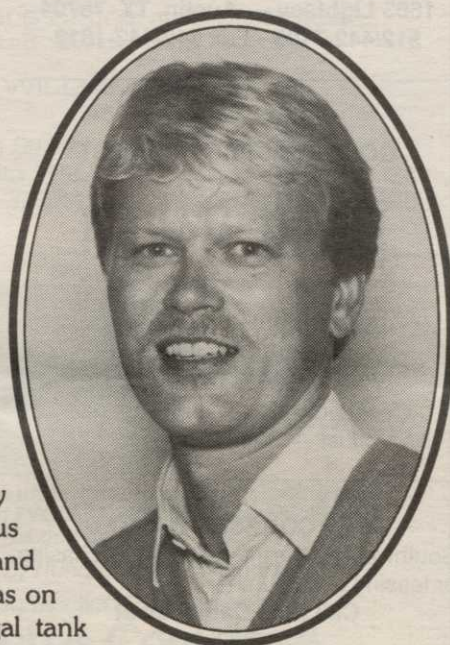
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Wetting Agent

MARSHALL FEARING

CASTLE PINES GC HOME OF THE INTERNATIONAL TOURNAMENT, CASTLE ROCK, CO.

For the "International" we spray every thing inside and outside the gallery ropes with Surf-Side 37 and Iron. Our fairway program during the summer is 3-oz Surf-Side / M and 1½-oz Iron / M applied every other week. We don't water-in the application. The Iron mixed with Surf-Side does wonders for the grass! Greens receive 1 qt. / M Surf-Side to start the season. Back in 1986 we had lots of fairway areas that didn't take water well. Localized dry spots were a real problem due to thatchy turf and a clay-gravel soil. With 40 days over 90°F and winds coupled with 15 to 25% humidity the exposed sites dried out rapidly. A program of aeration plus Surf-Side has reduced this problem significantly. At Castle Pines hand watering isn't just hand watering any more... any remaining dry areas on fairways are hit with Surf-Side using a quick coupler and a 5-gal tank proportioner containing a premix of 1½ gals Surf-Side 37 to 3½ gals water. This gives us one quart Surf-Side to sixty gallons water applied as a drench. A repeat application usually isn't needed for up to 4 weeks. Our fairways are irrigated twice a week. When conditions warrant we also premix Surf-Side and Iron (with water) in a 50 gal tank and inject this into the irrigation system. Fairways were originally seeded to Seaside and Astoria bent. Tees and greens to Penncross. We now overseed fairways with Penncross and SR 1020.



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CIRCLE #181/BOOTH #2143

Golf Course Marketplace

To reserve space in this section, call Simone Marstiller at 813-576-7077

BUS. OPPORTUNITIES

REQUEST FOR INTEREST STATEMENTS

Development & operation of a 160-acre golf course site, nestled in the heart of Scottsdale's resort & recreational corridor, is being considered. The City of Scottsdale is seeking to identify qualified, experienced & responsible firms having sufficient resources & interest in the project. To receive a Request for Interest Statements, please contact **Dennis Cain, Sr. Project Mgr.**, at (602) 994-2720 or fax your request to (602) 994-7971 by January 31, 1993.

EMPLOYMENT

SUPERINTENDENT

The owner of a Dye golf course in Thailand wishes to hire a qualified superintendent to work in Phuket, Thailand for a period of at least 2 years. Send resume with salary requirements to: **Thai Muang Beach Resort Co. Ltd.**, 319/15-19, Rart Xalerm Bldg., Wiphawadi Rangsit Road, Phayathai, Bangkok 10400 Thailand. Or fax to (662) 271-4831, Attn: Dean Glorso, Project Manager.

IRRIGATION SUPERINTENDENT

Large Irrigation Company looking for experienced installer for Golf Courses. Maxi & Network exp. required. Fax resume & salary requirements to:

(318) 868-4932

SALESPERSON WANTED

Mid-sized turf products distribution company seeks an experienced sales representative for its golf course market. Experience in turf chemicals & fertilizers needed for this No. Central Florida territory. Respond to: **Personnel**, 347 San Juan, Ponte Vedra Beach, FL 32082.

WANTED

Golf course construction company wants experienced golf course construction supervisors & shapers. Fax resume to:

(404) 992-9677

POSITIONS WANTED

HEAD SHAPER POSITION WANTED

Seeking overseas employment as head shaper. 25 years experience. Resume & letters of reference available upon request. Skip Pedigo, (502) 796-3690.

EDUCATION

GRAYSON COLLEGE, Dennison, TX. 2-year technical program in golf course & turf grass management. 18-hole golf course on campus. Dormitories, placement assistance, financial aid & scholarships available. Contact: **GCC**, 6101 Grayson Dr., Dennison, TX 75020. (903) 463-8653.

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Sealed proposals will be received at the office of the Service Director of the City of Macedonia, 9699 Valley View Road, Macedonia, Ohio 44056, 12:00, Noon, local time on the 19th day of February, 1993, for the lease by way of concession of land for the installation and operation of a public golf course, on approximately 140 acres south of S.R. 82, in the City of Macedonia, County of Summit, State of Ohio, at the location specified in Exhibits A, B, C, and D of the specifications. The bids must be deposited in the "Bid Box" by 12:00, Noon, local time. The clock located in the Council Room of the City Hall of the City of Macedonia, 9699 Valley View Road, Macedonia, Ohio 44056, shall determine the official time. Specifications established for the lease by way of concession, instructions to bidders, and proposal forms may be obtained at the office of the Service Director of the City of Macedonia, Macedonia City Hall, 9699 Valley View Road, Macedonia, Ohio 44056, upon the payment of a One Hundred Dollar (\$100.00) deposit which shall not be refunded. The deposit must be made in the form of a check or money order. A pre-bid conference will be held on February 12, 1993, at 10:00 a.m. in the Council Room of the City Hall of the City of Macedonia, 9699 Valley View Road, Macedonia, Ohio 44056, at which time the City shall receive inquiries from prospective bidders. Bid surety in the form of a cashier's check or certified check in the amount equal to ten (10) percent of the bid, payable, without conditions to the City of Macedonia, must accompany each bid. Said check shall be given as guaranty that, if the bid is accepted, a lease by way of concession will be entered into within sixty (60) days after notice of award is given to the successful bidder. **THE RIGHT IS HEREBY RESERVED TO REJECT ANY AND ALL BIDS.**

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FEBRUARY 8, 1993

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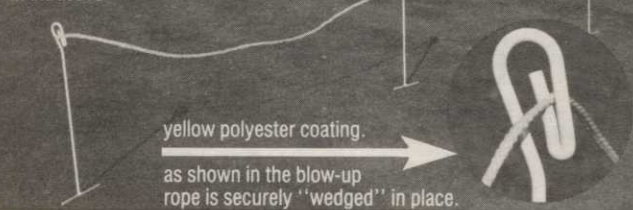
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CALENDAR

March

Continued from page 81

Philadelphia.*

4 — GCSAA spray technician training program in Aurora, Ill.*

4-5 — USGA Golf Course Wastewater Symposium in Newport Beach, Calif. Contact Dr. Michael Kenna at 405-743-3900.

9 — GCSAA seminar on Computers in Turf Management in Indianapolis.*

9 — Irrigation Specialist Training Seminar in Jamesburg, N.J.*

10 — GCSAA spray technician training program in Helena, Mont.*

15-16 — GCSAA seminar on Golf Course Design Principles in Minneapolis.*

15-17 — 3rd Annual New England Landscape Exposition in Manchester, N.H. Contact 800-639-5601.

15-21 — Pacific Rim Golf Course Conference and Show in Singapore. Contact 913-841-2240.

17-18 — Reinders 11th Turf Conference in Waukesha, Wis. Contact Ed Devinger at 414-786-3301.

21-24 — Forecast Golf Marketing golf range seminar at Kiawah Island, S.C. Contact Scott Marlowe at 804-379-5760.

22 — Ga. GCSA Spray Technician Seminar in Albany. Contact Karen White at 706-769-4076.

23-24 — GCSAA seminar on Golf Course Construction Techniques and Management in Palm Springs, Calif.*

28 — Golf Asia '93 International Golf Exhibition & Conference in Singapore. Contact 65-2966961.

30 — Irrigation Specialist Training Seminar in La Quinta, Calif.*

31 — Irrigation Specialist Training Seminar in Phoenix.*

April

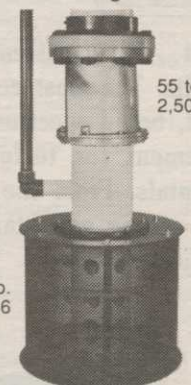
12-13 — Southeastern Turf Conference in Tifton, Ga. Contact Karen White at 706-769-4076.

Continued on page 84

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May

12 — North Carolina Turf & Landscape Field Day at North Carolina State University in Raleigh.

July

8 — Univ. of Ga. Turfgrass Field Day in Griffin, Ga. Contact 404-975-4123.

August

1-3 — Ga. GCSA Summer Conference in Augusta. Contact Karen White at 706-769-4076.

* — For more information or to register, contact the Golf Course Superintendents Association of America education office at 800-472-7878 or 913-841-2240.



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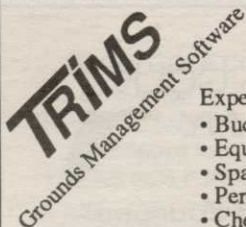
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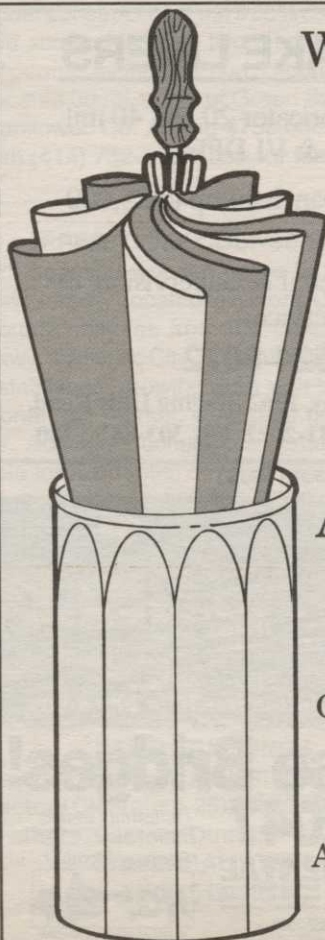
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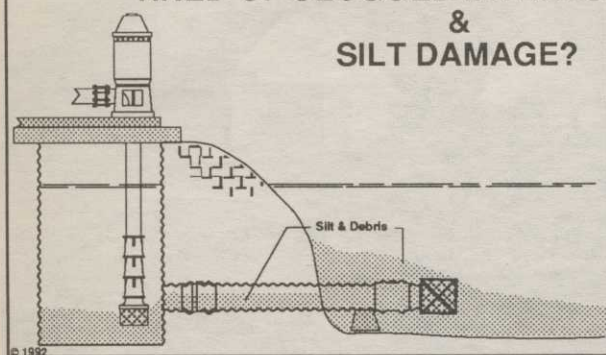
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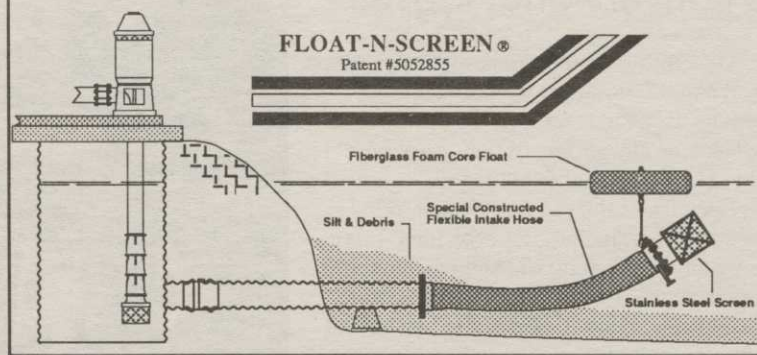
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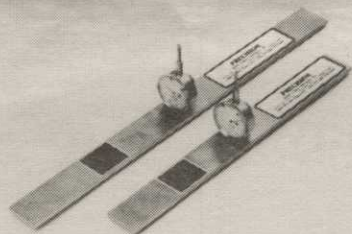
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*Appears in regional editions.

The sod-growing process was never quite like this...

Compost sludge replaces conventional topsoil

By TERRY BUCHEN, CGCS

A new system for growing premium golf course grass sods has been perfected using a compost-sludge mix instead of conventional topsoil.

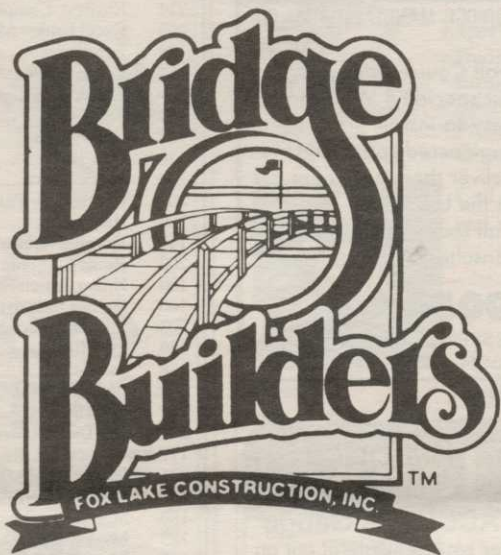
Composts and sludge are spread over a sheet of plastic, seeded, and then irrigated very carefully. The primary rooting of the grasses runs along, rather than penetrating the plastic, and thus knits the growing medium into a viable sod.

Depending on the grass species, a new sod can be produced in six to eight weeks for a tall fescue variety; or 10 to 12 weeks for any variety of bentgrass on a 30-square-yard lightweight roll.

Because of the plastic concept, no pesticides,—including herbicides—are used in establishing the sod or maintaining it. Since the root system is not "cut off" by a sod cutter blade, and because of the growing medium, an extensive root system is established. The roots knit quickly and directly onto the desired



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CIRCLE #184/BOOTH #312

topsoil. Transportation costs are kept down because of the light weight nature of the compost/sludge compared to conventionally sod grown on topsoil.

Three or more crops can be grown on the same acreage per year when the sod is contract grown.

Laying the sod is much easier with the big-roll concept, which will help reduce costs for sod laying crews that won't be needed.

The system was developed by Dr. Henry F. Decker, a botany professor at Ohio Wesleyan University in Delaware, Ohio. Decker has been experimenting growing sod on solid surfaces since the 1960s. Decker has tried growing sod on plastic using ground corncobs, seed and fruit hulls, composted wood chips, and mulches.

"We kept coming back to the most ubiquitous, perhaps the most difficult of all wastes-sewage," Decker said.

Decker received free Com-Til, a composted sewage product from the city

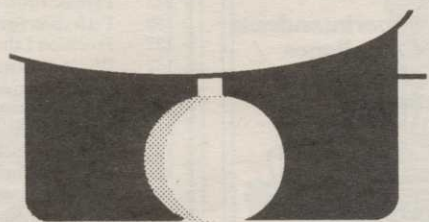
of Columbus, Ohio, to conduct his research. Columbus began composting sewage in July 1980. In 1990 about 15 percent of the 55.6 million gallons of sewage from its Southerly treatment plant has been composted.

In some years, about 50 percent of the sewage is composted, depending on how well the equipment runs. Last year the city sold about 12,000 cubic yards of Com-Til, the largest amount of which was bought by topsoil haulers who blended the product with topsoil to increase the organic content.

Decker recently patented BioSod Turf and plans to market the grass-growing concept.

"To be economical, we have to produce the sod close to the compost site," he said. "We have looked into setting up a farm close to the treatment plant."

Decker can be contacted at Buckeye Bluegrass Farms, Inc., P.O. Box 176 in Ostrander, Ohio 43061-0176; 614-666-2082.



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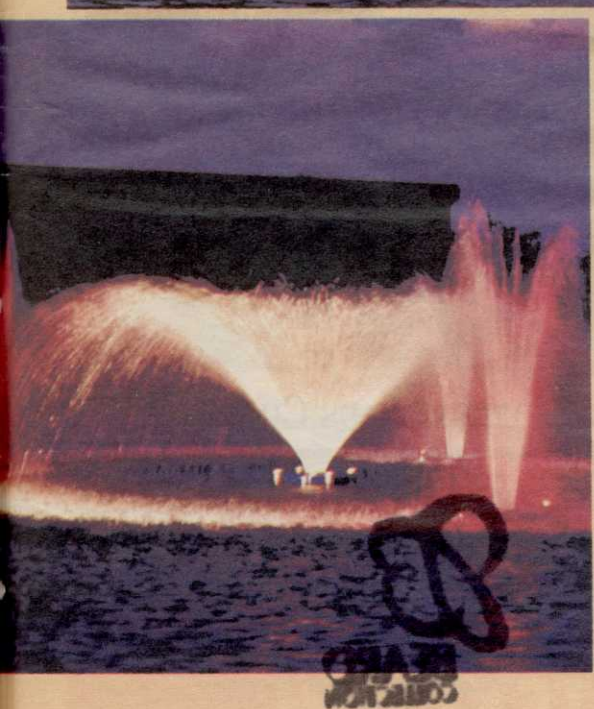
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