**Pearce eyes change from within**

*By Peter Blais*

With private club membership practices coming under increasing scrutiny by the public and media, newly elected Club Manager Association of America President Jim Pearce is a firm believer in change from within.

"I've seen clubs change on their own and do away with discriminatory practices. I don't know of anyone who manages a club that discriminates in the sense of the old term," Pearce said during last month's CMAA Annual Conference and Exposition in Dallas.

"Perhaps there is a lot of discrimination out there. But I am not aware of it in the clubs I have been privileged to manage because they've taken care of those things. It's taken some time. But I think it's wrong to have to be legislated to change things when it's the member who is footing the bill and not the government."

Pearce was club manager of the Binghamton (N.Y.) Club in the mid-1950s when the board of directors voted...Continued on page 42

**Aerator patent not enforceable**

*By Peter Blais*

A federal judge has ruled the patent on a pond aeration device used on golf courses is unenforceable because the manufacturer obtained it improperly.

U.S. District Judge Donald Alsop ruled Feb. 20 that Daniel Durda, chairman and chief executive officer of Aeration Industries Inc. of Chaska, Minn., altered documents...Continued on page 50

**USGA specs under fire, face change**

*By Kit Bradshaw*

The heat is on for change to the United States Golf Association's specifications for greens construction, which have been reduced to pamphlet size since the original one-inch-thick document.

Depending on the source, these specifications, an industry-wide standard for three decades:

- Are not based on sound scientific rationales.
- Have a problem in the...Continued on page 10

**Idaho legislators nix field burning bill**

*By Bob Spiwak*

BOISE, Idaho — The state Legislature on March 6 quashed a bill to limit the burning of turfgrass fields in Idaho, which produces tall fescue and Kentucky bluegrass for the nation.

Burning has proved the most cost-effective method of controlling disease and pests in the fields, but has been opposed by environmentalists who decry the black smoke from the fires every fall.

The opposition came to a head in 1988 when a wind-shift pushed the smoke from a burning field across a major highway in Oregon, causing a 37-car collision and fatally injuring seven persons.

Prior to the Legislature's...Continued on page 19
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Five-holer left behind in Saudi desert

"The Dune Country Club" will go out of business as quickly as it was fashioned. Creators WOJ Eric Binger and 1st Sgt. Gary Marquardt barely made it out of the Persian Gulf.

They built the five-hole, 2,424-yard course "somewhere in the Saudi Arabian desert" a few weeks after arriving in March of the first October with the Fort Carson, Colo., 52nd Engineer Battalion.

Flags were made from scraps from the base canteen. The final hole is a 928-yard par 9, dogleg right. Small, sagebrush-like plants cover the first half of the hole, rocks the rest of the "fairway."

Most of Marquardt's irons have chunks missing from contact with rocks, and he may be stateside now in possession of a new set.

A home-made scorecard lists these rules:
- No carts allowed on the course.
- A one-liter bottle of water, or two one-quart canteens per person mandatory for play.
- Raking of sand traps not necessary.

The most important piece of equipment Binger and Marquardt carried was a new set, but they took the scattered remains of the old M-14A1 that is more valuable than a favorite driver or putter.

Their loads now will be much lighter. No more rifles and no cumbersome battle dress uniforms with protective gas masks hung from their waists.

And there'll be the cooling prospect of the 19th hole at round's end.

Ancient cooking utensils found, course developers hit with tab

CHIBA, Japan — The small darter and endangered species counterpointing construction companies and golf course builders headaches aren't confined to the United States.

While Japanese archaeologists rejoice over discovery of 2,000-year-old Jomon-style cooking utensils on the grounds of The Country Club Glenmoor in Chiba Prefecture, developers of the Pete Dye-designed course find themselves further frustrated.

They've previously been plagued by a storm and a fire.

After the utensils were unearthed, construction was halted. Costs of excavation, transport and care of the artifacts will hit several hundred million yen, which the course must pay.

Despite these setbacks, Glenmoor is expected to open this spring.

City withholds design payments

COSTA MESA, Calif. — The Costa Mesa City Council has balked at paying a Santa Rosa design firm $21,000 to renovate the driving range and irrigation system at a municipal golf course.

The firm, Ronald Fream Design Ltd., has incurred the costs of the redesign and was under the impression that the work was ready to go out to bid, according to design associate David Dale.

He added that the company does not do work on speculation, and is expecting payment.

City officials will seek bids from other firms interested in the project, said Mayor Mary Hornbuckle.

Council members accused the Santa Rosa firm of designing the Los Lagos driving range as if it existed in a more arid area such as Palm Springs.

The city manager and golf course committee had recommended that officials award the contract to the firm based on the belief that the city had an existing contract with it and that the irrigation and driving range improvements would be added to that contract.

Corps goes back to board to examine Colorado project

LAKEWOOD, Colo. — The proposed municipal golf course at Bear Creek Lake Park, hopefully scheduled for construction launch in mid-April, may be in hibernation for some time.

Following a flood of letters protesting the project, the U.S. Army Corps of Engineers plans a close look at Lakewood's plan to convert 450 acres to a 27-hole course.

A preliminary report in December said construction posed no significant threat to area wildlife and complied with the original Bear Creek Lake master plan.

Because of protests from Sierra Club members and a group called Friends of Bear Creek, the Corps may take several weeks to decide whether a full environmental statement will be required before the city is issued a construction permit.

Should the corps decide this is necessary, construction could be halted for several months.

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GOLF COURSE NEWS

CIRCLE #102
April 1991 3
Four courses are planned in $150M California project

NIPOMO, Calif. — Seventy residents of this town listened with varying degrees of optimism to a plan for a multimillion-dollar development that would bring four golf courses, 1,000 hotel rooms, commercial centers and research facilities to the mesa between Highway 1 and U.S. 101.

John Janneck, a consultant representing Hanson Industries, said the company would spend between $150 million and $200 million for the project. He said the development, as proposed, would provide 7,600 jobs, and added that the local climate, unlike desert resorts where summers are too hot, would attract top-notch hotel operators because golf can be played year-round.

Two of the proposed courses would be operated in conjunction with the hotels. The course proposed for the northwest part of the development is designated as a public county course. The project also includes a health club and tennis center.

Ninety percent of the project area would be taken up by the golf courses and open space. The research and development centers would be isolated among the golf courses and open space.

Rain said of little help in Southern California

Southern California residents are on general water cutbacks of 10 to 25 percent, and one golf course superintendent said “unless we get above-normal rainfall (in April) it will probably be at 50 percent this summer.”

Ray Davies, president of the Southern California Golf Course Superintendents Association, said: “The vast majority of courses use potable water and are facing dramatic cutbacks. A few are digging wells.”

While the area had rainfall in mid-March, Davies quoted experts as saying it would take 40 days of rain to pull Southern California out of its five-year drought. “It’s hard to catch up in one week of rain what you’ve missed over five years,” he said.

Davies, whose Virginia Country Club in Huntington Beach, uses wastewater, said whether a course has enough water for irrigation “depends entirely on local circumstances.”

About 10 percent of the courses in his area are underground, so have no shortage of water, he said. Others use ground water, which, is in good shape, he said.

But the majority of courses depend on potable water and face the regulations of governments and water districts. In Los Angeles, no lawn watering is allowed during the daytime.

Marin County, which encompasses the San Francisco area, is holding its residents to a 50 percent cut in water use.

“We’re still bemoaning the fact that we haven’t authorized any water projects in California in the past 20 years, while the population has continued to skyrocket,” said Bob L. Vice, president of the California Farm Bureau Federation.

Los Angeles and Mexico are studying a possible multibillion-dollar desalination plant project. They hope to be able to use build a power plant and use its steam plant to run a desalination plant that would be built beside it.

Southern California in the past has relied on the snowpack in Northern California for 50 percent of its water. Most of the rest comes from the Colorado River. But the supply from the north has been cut off.

Destroyed heron nests mean criminal charges at Port Ludlow course

PORTLUDLOW, Wash. — Criminal charges may follow destruction of five blue heron nests near Port Ludlow during expansion of a golf course on Port Ludlow property.

John Raymond, Jefferson County prosecutor, noted that under state law it is a misdemeanor offense to knowingly destroy habitat of protected species.

Bulldozer driver Bob Sousshek said he simply was laying out the center line for one of the future fairways, an expansion of Port Ludlow Golf Course. He said he did as instructed, staying clear of an area marked as a heron rookery.

David Cunningham, Pope Resources vice president, said two heron rookeries are on the property, and that his company went to great lengths to protect one, but didn’t know about the other.

Golf Course News is published 12 times a year by United Publications Inc., P.O. Box 997, 38 Lafayette St., Yarmouth, ME 04096. The newspaper is distributed without charge to qualified golf course superintendents, greens committee chairmen, club owners and users, as well as builders, developers and architects.

Second-class postage paid at Yarmouth, ME and additional offices.

Correspondence should be addressed to Golf Course News, P.O. Box 997, Yarmouth, ME 04096.

Postmaster: Send address changes to Circulation Manager, Golf Course News, P.O. Box 1347, Elmhurst, IL 60120-6837.
Rochester will construct city’s fourth golf course

ROCHESTER, Minn. — The Rochester City Council will spend $360,000 for 200 acres that will become the city’s fourth golf course. The land will be paid for over the next two years with tax funds. The site includes the former Harley Valley School, which will be used as the clubhouse, a barn to be used for maintenance, and a farm. Construction costs of the $2.1 million project, due for completion in 1996 or 1997, will be paid through surpluses in the golf operating budget. The land acquisition is being financed primarily with tax money.

The council approved the request, 64-2. Parks Superintendent Roy Sutherland said the growing demand for golf and a city commission study indicates the city can support 2-1/2 more courses by the year 2000. The 18-hole, par 72 course will not be included in the season pass for the other three courses. It is planned as an upscale course.

Gambling proposal hotly opposed, denied

Plans for a $100-million development straddling the Mississippi and Tennessee borders have met strong voter disapproval. Rejection in a recent referendum reached almost 60 percent. Riverboat gambling was the thorny issue. Had gambling been voted in, international hotel and casino owner Jack Pratt and Memphis, Tenn., developer Jack Belz envisioned 300 vacant acres being filled by a factory outlet, mall, hotels, shopping center, golf course and an upscale residential complex. The development would have been built on land Belz owns west of U.S. 61 near State Line Road — near Memphis International Airport. Olive Branch, Miss., among DeSoto County’s most prosperous areas, has four 18-hole golf courses. Developers may re-submit plans next year.

Mayfair Golf to sublease land and build 18 in Texas

GRAPEVINE, Tex. — It’s more than just a grapevine rumor. The City Council has authorized a contract with Mayfair Golf, Inc., for the sublease of land to be used for an additional golf course adjacent to the municipal course and west of the Hilton Hotel. The course will be a complementary facility to the municipal course.

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Where great ideas start.
Puzzled panelists put West Palm Beach contract on hold

Golfers wait along with Whitley, Player and PGA Association

WEST PALM BEACH, Fla. — Two new 18-hole public golf courses are in prospect for sorely pressed players at the local municipal links, but the choice of contractors may not be settled.

Commissioners recently approved a proposal for the development of the two courses, but the winning team of Whitley Development Corp., Gary Player Design Co., and PGA Association of America still may be awaiting the go-ahead on contract negotiations.

At least two commissioners pressed for a reassessment of the projects. The two losing presentations, from Golden Bear International, which wanted to lease land from the city and build an 18-hole golf course, and Frankel Enterprises, which planned to build an 18-hole course on city land and in exchange be given land to develop, received their sympathetic ears.

Whitley's plan calls for two 18-hole courses and a park with tennis courts and soccer fields to be built on two city-owned sites east of Florida's Turnpike. The project would cost between $103.5 and $113.8 million. The city would own the land and golf courses and receive all profits from the operation.

Commissioner Helen Wilkes wanted to "go back and rethink the winning details." She questioned the financing and wanted to know if there were any liability to the city.

Vice Mayor Art Bullard didn't vote for the Whitley team. He said the proposal sounded too good to be true and didn't see how money could be made.

Robert Whitley, company president, said the team would make money through development fees.

Finance director Kathy Hankins termed Golden Bear's proposal the best financial deal for the city. Herb Wilson, the only committee member who doesn't work for the city, agreed.

Commissioner David Smith, who ranked Whitley highest, said he didn't understand why commissioners didn't discuss the projects before voting.

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Innisbrook finishes 2nd phase of renovation

TARPON SPRINGS, Fla. — Innisbrook has completed the second phase of a four-year, $2-million program to refurbish its golf courses and expand its golf facilities.

Improvements to the top-ranked Copperhead course were completed in time for December's PGA Classic and the resort's 20th anniversary.

Copperhead's men's and women's locker room facilities were expanded and the clubhouse regroomed.

Major renovations costing more than $1 million will be unveiled this summer.

The Sandpiper, another of Innisbrook's three courses, recently underwent reconstruction of its greens and restoration of its front nine. A lighted driving range was added, putting green enlarged and staging area renovated.

Arvida projects Palmer courses in development

SAN CLEMENTE, Calif. — The Florida-based Arvida Co. plans two 18-hole golf courses designed by Arnold Palmer as a prominent part of development of a 2,510-acre of land called Togaga.

Officials hope for tract map and site plan approval from the San Clemente City Council in April.

The company is setting aside 1,220 acres for a nature conservancy. In addition, there would be 72 acres of park land, including one 20-acre park with ballfields and pools — the largest park in San Clemente.

Bill Mahan, a widely-known Spanish-style architect, will design the golf course clubhouses.
Largest Palmer-designed development set in Florida

LEESBURG, Fla. — Palmer Course Design, owned by Arnold Palmer, plans to build its largest-ever development in South Lake County.

Golf balls soon will be flying where citrus groves abounded during the early 1980s.

The Lake County Planning and Zoning Commission approved the project in 2,270 acres located on hilly, burnt-out citrus countryside surrounding Sugarloaf Mountain.

After the 1983 and 1985 freezes devastated orange groves, growers were hesitant to replant.

Karick Price, who owns 484 acres on the proposed site and arranged the deal, said this would be Palmer’s biggest land development. Palmer Course Design, headquartered in Ponte Vedra Beach, maintains 24 golf courses and has developed 200 golf course projects.

The Lake County project, located north of County Road 561A, would have two 18-hole golf courses, 1,145 acres of single family homes, 90 acres of golf villas, 310 acres of golf courses, 100 acres of lake and 290 acres of open space.

There would be a commercial area, clubhouse, parks, nature trails, bike paths, athletic fields, schools, churches and community centers.

Washington, D.C. — The American Seed Trade Association has created a biotechnology committee to bring an established industry presence and center for cooperation to those who work in commercial biotechnology. Officials feel it should be an excellent forum for industry leaders to exchange views, identify areas for cooperation and combine talents that will help commercial technology achieve its fullest potential, with emphasis on the seed industry.

Chairman Warren Springer may be reached at 612-553-7265.

EPA steps aside on Cutler Bay project

BISCAYNE, Fla. — The U.S. Environmental Protection Agency won’t block construction of the Old Cutler Bay development near Biscayne National Park.

After reviewing modified plans submitted by Dade developer Paul Planas, the EPA cleared the way for Planas to build a luxury housing complex around a golf course designed by Jack Nicklaus.

However, the development will be smaller than originally proposed. Planas agreed not to fill in eight acres of rare white mangroves along Biscayne Bay.

The EPA had threatened to use the Clean Water Act to veto Planas’ construction permit. Mangroves are stringent protected under local, state and federal laws.

Lake Norman area to get course

MOORESVILLE, N.C. — A $2 million golf facility here, just off I-77 at Exit 36, should serve the entire Lake Norman area.

This would include Cornelius, Davidson, Huntersville, Denver, Lincolnton, Salisbury and Statesville.


The local golf center is to include a pro shop, practice green, spacious sand traps, five target greens and 25 tee boxes complete with cover for foul weather. Tees will be of natural turf.

All greens will be sodded and the turf area, fairways included, irrigated.

Instructions will be available by appointment with PGA instructors. Video cameras also will be available.

Rejected developer opposing others

CHEEKTOWAGA, N.Y. — A developer, challenging the town’s condemnation of his land for a golf course, financed an organization’s successful campaign to halt additional course funding.

Richard Herman donated $13,551 to the Dartwood Community Homeowners Association, which spearheaded opposition to authorize an additional $1.9 million for the golf course.

The proposal was defeated in referendum, 18,294 to 6,888.

Herman and co-owner Richard J. Kawalrski are appealing a state Supreme Court decision that permitted the town to take the land.

The Town Board has not decided whether to proceed with the golf course, using the $2 million previously approved.

GOLF COURSE NEWS

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TRIUMPH
In N.J. town: one denied, one waiting

DEP shoots down $80M housing and convention center plan...

SWAINTON, N.J. — The state Department of Environmental Protection has denied "without prejudice" a permit for Avalon Golf Club and Resort's $60-million plan to build 343 townhouses, convention center and health club on 172 acres here.

The plan, which would have located the development on the existing golf course, initially was given approval by local planners.

However, it didn't meet state and national criteria specified for development in both the Pinelands National Reserve Area and general land area policy.

St. Louis Airport course proposal may win OK after 26 years

CHESTERFIELD, Mo. — Golf course plans, in the works for most of the 26 years of the St. Louis Airport's existence, may be getting off the ground.

Last year, three golf course developers responded to the airport's nationwide query concerning an 18-hole regulation golf course and driving range on 230 acres south of the airport's runway complex.

The first of three steps has been taken. A team of county officials interviewed the companies — First Golf Co. of Denver, Colo., Blue Tee Management of Omaha, Neb., and a local consortium headed by Rolfs Construction and Hale Irwin Golf Services.

Course cost estimate is $4.2 million. Much of the delay has been attributed to drainage concerns.

EPA institutes storm water rules

An Environmental Protection Agency stormwater requirement may affect a number of green industry operators. The regulations will give many cities the authority to ban wastewater from washing vehicles and equipment from running into stormwater sewer systems.

Harvard repeats design course

CAMBRIDGE, Mass. — Golf course design will be among one-to six-day courses offered from mid-June through mid-August at Harvard Graduate School of Design, Gund Hall, 48 Quincy St.

Forty-one continuing education courses will include workshops in landscape architecture, architecture, management, real-estate development, and computer-aided design.

Club Corp. plans $40M development

BERNARDS, N.J. — Club Corp. of America has bought 327 acres from The Hills Development Co. to build a golf course in the center of a huge development planned here.

Total cost of acquisition, construction and amenities is estimated as exceeding $40 million. Sale is contingent on Planning Board approval of the course design. Construction should take about two years.

The course property is directly south of the United States Golf Association's national headquarters in the township.

Wetlands panel says 'yes' to request

BETHLEHEM, Conn. — The Inland Wetlands Commission has approved an application for a golf course-country club housing development for the Risley property off Route 132 on the northwest side of town.

However, the Planning Commission has received no application.

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Oregon citizens group forms to oppose golf on ag land

HILLSBORO, Ore. — Golf courses in agricultural zones are becoming a source of concern. The Washington County Farm Bureau is upset over the number of approved and pending courses in this county's rural areas.

Opponents say courses compete for limited water supplies and spraying.

Friends of Oregon is asking the Legislature to ban courses in exclusive farm use (EFU) zones throughout the state. Agriculture is seen as a $450-million industry in Washington County.

Mary Kyle McCurdy of 1,000 Friends said, "Golf courses are a land-intensive nonfarm use, and restrictions are not enough to keep them from chewing up prime farmland."

A group calling itself the 1,000 Long the Standard of Quality.

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Water hazards to help erosion problem

MORRO BAY, Calif. — Water hazards to catch upstream erosion now choking the Morro Bay estuary will be featured in a 5 2/3-acre golf course at the base of Hollister Peak.

The site, about three miles north of Morro Bay near Highway 1, also lists 160 acres for play, 20 acres for a clubhouse, pro shop, lodge and other recreation facilities and 140 acres as potential open space.

Tom Courtney is project architect and Robert Trent Jones Jr., designer of the 18-hole course.

Sweet peas now are grown on this site. "Historically," said Courtney, "the existing agricultural operation on this property has recorded a 10-year average water consumption of 299 acre-feet per year."

Allowing for about 90 acre-feet for continued agricultural use on the 240 acres of land across Highway 1 from the proposed golf course, the project still would waste only 12 percent less water than now used on the whole site, Courtney said.

Jack Franklin, A. J. Wright and John Q. Hammond's bought the property in 1986. An original plan called for construction of 200 homes and 100 retirement condominiums on the property. The current plan does not call for housing.

$20M community project breaks ground in N.C.

GREENSBORO, N.C. — Grading and clearing is under way for an 18-hole golf course that is the first stage of a planned $20-million community near the Rock Creek-Interstate 40-85 interchange in eastern Guilford County.

Four holes have been rough-graded and four others are being cleared.

The course, named after nearby Stoney Creek, is scheduled to open in the summer of 1992.

Mike Weaver is chairman of the Weaver Cos., a real-estate development firm handling the project for Klaussner Industries, a German-owned company with U.S. headquarters in Asheboro.

Plan in 3rd year passes 1st test in approvals

WHITEHALL, N.Y. — The proposed Willow Pond Golf Course has hurdled its first phase.

The town's Planning Board has approved the concept of the nine-hole golf course.

Although the board approved plans of four single-family homes on four lots, golf course and driving range, construction still is pending approval by the Washington County Department of Health, which will consider the site's water and sewage requirements.

Town attorney Ed Bartholomew said, "Any project like this, especially a golf course, will be subject to local, county and state approval."

The project has been in the planning stages about three years. The current 147-acre development includes: 14 single-family lots, restaurant, clubhouse, golf course and the remaining land to be developed in phases upon planning board approval.

PLCAA drops Moody

Doug Moody, who had been deputy executive director of the Professional Lawn Care Association of America since 1985, was a victim of a budget-cutting move. His position was terminated.
USGA's controversial greens specifications

The problem of the (new) alternative system is that it wasn’t adequately tested before being used on golf courses.

— Dr. James Beard

Sometimes it is impossible to find choker-size sand in an already manufactured state," he said. "You need 1,000 tons for a golf course and this could cost $40 to $50 per ton.

"It costs about 12 cents a ton to move one ton one mile. So for every mile away from the job you go, you are adding cost to the choker."

"This added cost, Connor said, is why some course developers decide not to include the choker layer in the greens. "To eliminate the choker layer is to compromise the green," he said.

However, he admitted that one of the problems may be in the USGA specifications themselves.

"In 1982, the specifications said the choker layer's worth wasn't proven. There was nothing clandestine about it. The specs said it might or might not be necessary," Connor said. "But this language let an opening, and a lot of people drove through it."

Chuck Dixon, vice president of technical operations for International Sports Turf Research Center, Inc. in Olathe, Kan., has problems with several parts of the specifications.

"If you go back and look at the records, you see that the USGA said it was OK to have a USGA green without the choker. I'm not..."
draw fire as they are put to microscope

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Regional Guidelines

Many in the industry believe regional specifications would make sense.

"The climate is involved. The turf is involved," Gockel said. "There are other aspects like organic selection and sand gradation to consider... What's good in Northern Michigan is not necessarily so for Houston." Connor said that although he thinks regional criteria would help, it could be as difficult to have regional specifications as it is having national ones.

He said perhaps a difference should be drawn between the types of turfgrass and soil requirements from one region to another.

"I think the specs are trying to cover a lot of territory, and regionalization may not be the answer," Connor said. "The problem now is that the specs are so precise they are difficult to meet. These specs imply that if you are outside their range in any category, you don't have a USGA green."

"We should be more aware of regional differences," Connor said. "For instance, we worried about using limestone in Florida but now it seems we can use native rock. We had been importing material that often cost nine to 10 times more."

The USGA's Vanek is aware of the controversial nature of the greens' specifications, and the organization is attempting to look at several areas of difficulty.

"For one thing," he said, "how do you characterize peat or organic materials? It's important to have clean peat, and even in the peat field you can have silt and clay. We are talking to universities right now to see if they are testing peat. And also, we are involved in doing a historical review of the specifications to help solve some of these problems."
Two holes rearranged to add 500 yards to 18-hole layout

NEW MILFORD, Conn. — Candlewood Valley Country Club soon will be an 18-hole golf course with the desired 6,000-plus yards. City officials recently approved rearranging two holes to add 500 yards and bring the 18-hole layout to almost 6,000 yards long.

Ample city property is available to lengthen the tees or refine hole lengths to increase the course measurement.

There had been opposition to a proposal to add three holes on 21 acres of club land opposite Still River, because the holes would have been placed on wetlands. Larry Lieberman, wetlands enforcement officer, contended that the area contains a sizable population of nancy berry bushes and small-flowered astermary, rare in the state. All now seems well.

A regulation course in town "will attract a broader range and larger number of golfers," said Michael Papp, head golf professional. He added that the changes would make the flow of traffic move through the course more easily.

The current length makes some avid players avoid the club.

N.M. county's first public course prepared to open in July

BERNALILLO, N.M. — The 27-hole Valle Grande Golf Course, the only public course in Sandoval County, is expected to open in early July.

The driving range and 18 holes may be ready for play in June. Valle Grande is located on Jemez Canyon Dam Road, just west of the Coronado Monument, and is bordered by Jemez Creek, the Rio Grande and NM 4.

The nine-hole courses are named Tamaya, Coronado and Rio Grande. The course was designed by Kenneth Killian and pro Ken Green.

$80M European resort planned in California

MURETTA, Cali. — An 88- million European resort and health spa is to be built at the site of the old Temecula Hot Springs.

The resort will include a nine-hole golf course, tennis courts, Olympic-size swimming pool and an artificial lake with paddleboats.

The Nadel Partnership of Los Angeles is project architect for La Perla de California, the 141-acre grounds developed by hot water therapy specialists Drs. Edward and Johannes Zwick and due for completion late in 1998.

The Zwicks own and operate the largest hot water resort and spa in Germany.

LAKE WORTH Golfer getting back 9

LAKE WORTH, Fla. — Lake Worth Golf Course members, long resigned to scrambling for tee times and slow rounds, may get little relief when the "snowbirds" leave for the North.

The back nine will be closed May 1 for five months. The Lake Worth City Commission has authorized the golf course to go out on bid to remedy what is said to be lack of improvements to the incoming nine the past 65 years.

It is anticipated that grassing, fertilizing and irrigation work will be done in-house with existing staff. "Renovations to the back nine will modernize and restore the course to a uniform playing condition, as well as eliminate existing drainage problems," said Assistant City Manager Kerry Willis. Cost is estimated at $180,000.

Front nine renovation began in 1987. Work was funded from retained earnings at the golf course.

Officials hoping for good weather

MUNDELEIN, Ill. — Mother Nature had best be kind the next few months, or an 18-hole golf course the Mundelein Park and Recreation District planned for opening in August 1992 may not make its teeoff date.

Receipt of a county site development permit three months later than expected has left little room for construction delays.

The course is planned for 200 acres south of Hawley Street and west of Chevy Chase Road in Fremont Township.

Barring a cold, wet spring, the course would be seeded this summer or fall.

Board President Ernest L. Shymanks said he did not have an excuse for the delay.

City Building and Zoning Department Director Robert Streicher countered that the Park District did not provide until late December information required before a permit could be issued.

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W e've added convenience, economy, our money-back performance guarantee* and flexibility to the list of AquaGro® features. The world's most popular soil wetting agent is now injectable, syringable, sprayable and spreadable.

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AquaGro® Advantage pellets are economical... each pellet treats up to an acre and costs about $7.00. And Advantage offers more than twice the active ingredient of other wetting agent pellets. You can’t beat the economical AquaGro® Advantage System for ease-of-use and turf safety in any weather.

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T here’s a growing trend... superintendents are injecting soil wetting agents into their irrigation systems to improve irrigation efficiency, turf uniformity and to save labor.

AquaGro Injectable combines AquaGro’s proven performance with economical and flexible application rates. Now you can get AquaGro benefits everywhere you inject. Injectable— a 33 percent active ingredient formulation—pumps easily through all available injection systems.

Install an Aquatrols Little Squirter flow regulated injection system, or the P.P.M. fixed pulse injection pump, and put AquaGro® Injectable on tap at the touch of a switch.

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AquaGro® L gets to the root of your water related problems.

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Chamber asks halt in final design, cites ‘runaway costs’

CARLSBAD, Calif. — Charging "runaway costs," directors of the Carlsbad Chamber of Commerce have asked the City Council that final design and engineering work on the city golf course at Lake Calavera be halted.

Commerce officials say the final design of the course should not be done until state and federal wildlife agents have reviewed it.

John Cahill, municipal projects manager, said the course design must be in its final form for the California Department of Fish and Game and the U.S. Fish and Wildlife Service to review it.

To help finance the project, voters in 1989 approved a measure boosting the city's hotel room tax from eight to 10 percent. The room tax boost is expected to raise about $1 million this fiscal year, which ends June 30. With city funding, green fees for Carlsbad residents would be lower than private golf courses.

The course is expected to cost between $13 million and $17 million, said Frank Mannen, assistant city manager. Chamber spokeswoman Elaine Lyttleton said "the cost of the project is out of control." Green fees previously estimated at $10 a round are, she said, up to about $14, and would not cover operating costs.

Dearborn invites Golf Course Builders members for bids on renovations

DEARBORN, Mich. — Golf Course Builders of America members have been invited to bid on expansion and renovation of Dearborn Hills Golf Course. Site work, new clubhouse construction and support facilities are expected to cost $1 million to $1.5 million.

Inquiries should be addressed to the City of Dearborn Recreation Dept., 15801 Michigan Ave.

Turf-Type Tall Fescue rated #1 four consecutive years.

Nationwide testing at 41 sites of turf-type tall fescues place ARID as #1, and the first choice for athletic fields, parks, playgrounds and public area lawns.

Mean Turfgrass Quality Ratings of Tall Fescue Cultivars At Four Shade Locations in the United States

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Brown Patch Ratings of Tall Fescue Cultivars

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Developers in wings for Fort Myers course

FORT MYERS, Fla. — The Community Redevelopment Agency has approved the $2.09 million purchase of a 100-acre parcel of land for the planned Southwest golf course community.

The land was acquired from the Federal Deposit Insurance Corp. from a failed savings and loan.

Four developers are vying for the project.
ONCE™ eliminates labor and other costs of fertilizer re-applications because you apply it only once per season.

This improves manpower forecasting and frees your time for other projects. Plus, you get consistent, superior turf and ornamental growth with no "feast or famine" effects of other fertilizers.

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ONCE is available now in a variety of analyses and 8-9 and 5-6 month longevities. There is also a formula specifically for ornamentals.

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Use ONCE, just once, for the best results all season long.
Dean of Maine's supers, Jimmy Jones, dies at 82

Jimmy Jones of Cape Elizabeth, long regarded as the “Maine Greenkeepers’ Greenkeeper,” died Jan. 31. He was 82.

Jones, a native of Litchfield, Maine, started his golf career in 1917 as a caddie at the Augusta Country Club. He was active in state professional tournament competitive ranks until 1960, held several competitive course records and was third low pro in the 1930 Maine Open.

The first president of the Maine Golf Course Superintendents Association, in 1949, he received that group’s Distinguished Service Award in 1986. Jones’ golf connections, other than winter service in the Panama Canal Zone and as aide to brother George at Mountain Lake Country Club in Lake Wales, Fla., remained strictly Maine. His last course superintendent post, from 1971 to 1990, was at Salmon Falls in Bar Mills. He also had lengthy service at Augusta Country Club, Bath Country Club and Purpoodock Club in Cape Elizabeth.

Modified golf survey finds players would do it again

The third International Modified Golf Open held at the Britannia course, Grand Cayman Island, British West Indies, should provide further insight and information on the specially-designed ball which carries less yardage.

The tournament consists of 18 holes of medal play modified golf both days. Women will use “equalizing” forward tees. Britannia, designed by Nicklaus, is laid out to take one quarter of the land of a traditional golf course and half the time to play. The International event is a follow-up to the recent inaugural Bay Island tourney at Britton Golf Course, Jack Nicklaus Sports Center, Kings Island, Ohio.

Scores of the 51 competitors at the $4,750-yard executive course ranged from 66 to 91. A club selection chart helped golfers in shotmaking.

A questionnaire survey at Bay Island elicited largely favorable reaction to the unique ball. Playing the “MacTec 50” golf ball had these advantages, golfers said:
- Easier to keep track of ball, faster playing time, able to keep ball in play, less tendency to swing too hard and more confidence in making shots.
- More competition for everyone, ball floats, ball somewhat easier to hit, smooth swing produces better flight, and not stressed out after the round.

Disadvantages were:
- Ball scuffs easily, not able to backspin ball on greens, ball affected somewhat by wind, and difficulty adjusting to distance hit.
- All but two in the field of 51, or 96 percent, said they enjoyed playing the “MacTec 50,” and 49, or 76 percent, found the ball an advantage over the regulation ball.

Thirty-three said they felt less inhibited playing modified golf, and all said the “MacTec 50” was easier to follow in flight.

A scale of 1 to 10, the “MacTec 50” drew a 9 rating. Long irons, short irons and pitch shots had an average of 8, driving and putting 7 and durability 6.

Forty-two said playing modified golf was as enjoyable as regulation golf, 48 liked the faster playing time, and 16 the action of the ball.

Forty-two agreed the larger 6 inch cup, 27 said they were able to fade or draw the “MacTec 50” satisfactorily, and 46 said they were interested in playing modified golf again.

Other comments included:
- Great change of pace in golf, would like a list of courses available, need more publicity on the game, where can golf balls be bought, never have seen modified golf advertised in golf magazines, and are lighter golf clubs available for modified golf.

N.J. landfill to undergo transformation

EGGHARBOR TOWNSHIP, N.J. — The Pinelands Park landfill soon may be transformed from a dump to a golf course.

Mayor James J. McCullough’s citizens committee has recommended a golf course as the best use for the site and is interviewing potential builders.

Jeff Curtin, Atlantic County’s Division of Parks and Recreation director, said a 1984 study indicated the need for a public course.

“They,” he said, “there were about 10,000 rounds going out of Atlantic County to find a course to play on.”

Since 1984, Curtin added, some formerly public courses have become semi-private, no new golf courses have been built, and the county’s population has increased.

THIS PART TOOK 6 YEARS AND $250,000 TO DEVELOP AND YOU CAN’T FIND IT ON ANY OTHER PUMP STATION.

No other pump station on the market has a brain like ours. Designed by Flowtronex electrical engineers with input from dozens of golf course superintendents, Smoothflow™ is the only computer control software that makes full use of variable speed technology. This powerful new technology actually makes your life easier and your employees more productive by providing unmatched control flexibility and energy savings.

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For example, our automatic diagnostic utility (AUD) constantly monitors and records pump station performance for easy review. If an alarm condition occurs, AUD lets you pinpoint the exact cause. And our automatic ramp up (ABR) eliminates water hammer by letting you select the exact time in pounds per second for your pump station to gradually ramp up to irrigation pressure. Smoothflow also incorporates our Stress Reliever which lets you maintain reduced pressure (typically 60 to 80 psi) on your piping system during non-irrigation times. Plus you can count on our automatic power saver (APS) for substantial savings on your power bill.

So if you’re looking for a new pump station, think of us. Once you examine all the advantages of Flostronex International, you’ll agree buying our pump station is a very smart decision.

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This speeds turf recovery and promotes better stress and disease resistance. Plus, you get more consistent mowing cuts (no flushes) and superior turf color and density.

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Because release is based only on temperature—not water, pH, or bacteria as with other fertilizers—nutrient availability matches turf and plant growth needs.

ONCE is available in two longevities (8-9 month, and 5-6 month for northern climates) and a variety of analyses. There is also a Potassium-specific formula for highly stressed areas.

Contact your Grace-Sierra turf and landscape distributor or call us toll-free at 1-800-492-8255.

Use ONCE, just once, for the best results all season long.
Oregon burning compromise means big change

By Bob Spiwak

The fate of turfgrass burning, and possibly the industry in Oregon, is being deliberated in the state Legislature at Salem.

As of mid-March, no laws had been established that, according to Dennis Hays of the Oregon Seed Trade Association, "something's going on, we just don't know what.

After a 57-car pileup that left seven dead three years ago, and apparently was caused by a shifting wind obscuring a major highway with smoke, the long-smoldering war against field burning itself erupted into flame. Environmental and citizen groups, as in Idaho, have sought legislation restricting or eliminating field burning.

Leah Nelson of the Oregon Seed Council said the industry plans to introduce its own bill to the Legislature this session.

The scenario is like international diplomacy, Nelson said. She could divulge no information on the bill's contents because "we don't want to tip off the opposition to our plans."

She added that even the turfgrass growers, other than those on the legislative committee, are unaware of the bill's contents.

Hays said the industry was working with legislative leaders in preparation of a law. The seed business is an "essential component of the Oregon's economy."

According to Don Jacklin of Jacklin Seed Co. in Post Falls, Idaho, some 350,000 acres in Oregon are devoted to production of rye, bentgrass and fescue grasses.

Hays said his view is "unaware of anything happening in the Legislature at this time, but apparently there is behind-the-scenes maneuvering by industry representatives. With Nelson's reference to divulge information and the Seed Trade Association's lobbyist unavailable, the industry appears to be working hard and keeping quiet.

Thus far, there has been no ban on burning, according to Hays. He noted that about 140,000 of a scheduled 200,000 plus acres have been burned. He said many growers are not burning at all, and most are piling up the straw rather than burning it.

With research funds from the state and the state university along with the industry, alternative uses for the smoke-producing material when burnt are being examined. These include animal feed, mulch, paper products and stove and fireplace wood products have been used.

Hays said there are straws in the wind that the Legislature is considering raising burning fees "tremendously." Currently, he observed, the cost to register for burning is 50 cents per acre, and $3.50 per acre for the actual burning.

"They're talking about taking that fee way up," he said.

Nelson feels the Legislature will have a law passed in April. "We would have a better idea then," she said. "We killed an environmental bill, but it was nip-and-tuck. Now we are engaged in a strategic battle."

AGC leases Detroit courses

American Golf Corporation has leased and will operate four City of Detroit golf courses.

Over the next few years American Golf will spend $2.5 million on improvements and new equipment at Chandler Park, Palmer Park, Rackham and Rouge Park golf courses. Weed eradication and new cart acquisition programs are also planned.

"We have $875,000 set aside for immediate purchase of new mowers, golf carts and pull carts at the four courses," said Rackham General Manager Dana Cimorelli. "We're setting up our vendor relationships now."

Ravenswood is planned for all four clubhouses, particularly at Rackham, a Donald Ross-designed course built in 1925, Cimorelli said.

Rackham and Rouge are 6,400-yard layouts, Chandler and Palmer are closer to 7,000 yards.

The 10-year lease with a 10-year option is similar to the arrangement American Golf recently signed to operate six New York City courses, Cimorelli said. "With the budget constraints they are facing these days, many cities are looking into deals like this," he added.

Ken Jones, senior vice president of AGC's Mid-America region, will oversee the Detroit courses. James is also responsible for facilities in Texas, Colorado, Illinois, Missouri and Ohio.

American Golf leases or manages 125 courses nationwide.

URI names Skogley successor

Dr. Bridget Roemene, a post-doctoral researcher at Texas A&M University and a graduate of the University of Minnesota, has been named assistant professor in the URI Department of Plant Science. She will take over the turf grass improvement duties of the retired Dr. Richard Skogley.

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You already know that aeration is a must for healthy greens.

But you may not know there's a new aerator that provides significant agronomic benefits without disturbing the surface. Or even disrupting play.

Meet Toro's revolutionary Hydroject 3000. The only aerator that injects water at high velocity to penetrate compacted soils.

Like most revolutions, this one started underground. With a need for deeper penetration than the normal 3" by conventional core aerators. We designed the Hydroject 3000 to penetrate 4" to 6", and beyond 20" if needed. A decided coup for you. And it breaks through compactive layers for better infiltration.
Idaho seed growers win legislative showdown

Continued from page 1

vote, Don Jacklin, vice president and director of seed production for Jacklin Seed Co. of Post Falls, Idaho, said he hoped for a compromise in the legislature. Other forces on both sides of the issue were less conciliatory.

Burning is crucial to the industry, Jacklin explained, because the stubble of the previous crop must be eliminated to prevent shading the new tillers (new growth) of the plants. He said maximum light intensity provides a greater "photo period," length of time the plant is exposed to light.

Jacklin, whose company reportedly is the largest producer and contractor of Kentucky bluegrass in the country, and others support a measure that would limit, but not ban, burning.

"We see this as the only way for short-term survival — reduce the number of acres burned and reduce the amount of particulates (solid emissions)," he said. "If we don't compromise, we won't survive."

But the turf seed industry employs more than 15,000 persons in Washington, Idaho and Oregon, and there are farmers unwilling to compromise. They see their livelihoods at stake, and the state of Idaho is equally cognizant of the economic benefits of the seed farmers. This is especially true today, when both mining and forestry, Idaho's major industries, are in decline.

Yet, Idaho has another major industry — tourism. Probably the loudest voice for tourism is that of developer Duane Hagadone, owner of the soon-to-open Coeur d'Alene Resort golf course, adjacent hotels and marina.

His voice is amplified in newspapers he owns in Idaho, and he is, says Jacklin, fervently opposed to field burning. Putting aside the possibility of a highway tragedy such as Oregon's, seeing smoke billowing in the air above an area touted as pristine, is not conducive to a favorable first impression by visitors.

Tillage — one alternative to burning — produces equally onerous billows. As fields are blown away, dust is airborne. This is a regular occurrence when the wheat farmers across the state plow their fields.

Environmentally, Jacklin said burning is far superior to tilling. He cites research which indicates that without the grass cover, 3.2 tons per acre of dust and soil emissions are put into the air in Washington, 4.2 tons per acre in Idaho. The particulate matter issued by burning reaches tourists, not tons, per acre. And there is no loss of precious topsoil. But, Jacklin acknowledges, smoke is a greater public relations problem than dust.

The projected law would have required a 30 percent reduction of grass acreage burned during 1991 and 1992, and eliminated all burning of grass stubble.

The turfgrass industry supports both aspects of the law. At the same time, there is anger that the bill does not address slash-burning (burning logging and other debris) by the U.S. Forest Service. This practice, Jacklin claims, is responsible for 30 percent of northern Idaho's airborne smoke. He feels the Forest Service should be subject to burning permits and identification of the areas put to the torch.

Considered another negative aspect of the bill was creation of a seven-person commission, comprising representatives of turf, agriculture and other groups. These persons would be paid, and their pay would come from grass-burning research funds. "It means we'll be shooting ourselves in the foot," said Jacklin.

One legislator supporting the bill was Rep. Jim Stochiel of Boundary County, adjacent to the grass-growing counties of Bonner, Kootenai and Benewah. The salon favored the burning restrictions in those counties, but kept his own constituency immune from the law, according to Jacklin.

Farmers out of the area fear that, if any anti-burning legislation is passed, it will open the door to future legislation growers feel will be anti-agriculture.

With the bill's failure, Jacklin is afraid it will create a backlash of public opinion that will force more restrictive legislation. This will leave little room for compromise.

City refinancing $18.7M in bonds

PORT ORANGE, Fla. — In an effort to generate funds for a proposed golf course and three water-related projects, the Port Orange City Council will refinance about $18.7 million of general obligation bonds.

An 18-hole course is planned near residential sections of Cypress Head, a 715-acre planned unit development between I-95 and Airport Road and north of Pioneer Trail.

The city plans to construct the course with about $3.2 million in water and sewer bonds because the site has been deemed a major effluent waste disposal site.
Justice takes a vacation on the Big Island

If it weren’t real life, the scenario might even be funny.

"Hi there, Mr. Hiyashi. Step right in to the council chambers here. That’s right... So you wanna build a course on that 120 acres out there on top of the landfill?"

"Yes."

"Well, that’s prime land, ya’ know. Grade A, Prime-e and Prime. One of the best we’ve got here in Hawaii. Hard to find better. Did you realize that?"

"No."

"Yep. Prime-e. We here on the council agree with the governor. We highly value our prime-e land. Any land, for that matter. And we tend to take notice when developers like you come in from Japan, nearly ‘fooling’ at the mouth to make money on us honest Americans and ‘trippen’ over each other to charge million-dollar fees."

"We wondered if you’re not taken advantage of."

"We wondered if you’ve got something up your kimono. We wondered if that golf course you wanna build is going to destroy our prime-e land... We wonder a lot of things, Mr. Hiyashi."

"Yes, I see that."

"So you’ve wandered into Wonderland, Mr. Hiyashi."

"Yes, so I have."

"One thing we don’t wonder, Mr. Hiyashi, is that we would be a wonderful people to allow you to build on that prime-e landfill, or land."

"And, yes, I thank you for being so kind as to listen to my proposal."

"You’re welcome. Now, there’s just one last thing, Mr. Hiyashi."

"What’s that?"

"It’s the mere matter of our impact fee."

"Impact fee? As in impacting what?"

"Impacting our prime-e land. Impacting the neighborhood. Impacting these council chambers. Impacting our land ownership parameters. Impacting it, impacting it."

"OK. I’m preserving open space, bringing in tourist dollars, adding jobs to the economy. The negative impact can’t be much. What do you want?"

"Just $20 million. It was $100 million for the last guy."

"Phew-w. I’ll have to think about that."

"You just do that, Mr. Hiyashi. Goodbye."

"Next? Yes, you come on in. So you want to build a course on that abandoned wetland area, Mr. Eizo?"

"Targeting Japanese developers, Hawaii is hitting up golf course proposals for an additional million-dollar impact fee."

"Until this is challenged in the courts, it seems the government can now play hostage with its approval process. Extortion is an illusory thing sometimes. In this case, it’s pretty blatant."

"Either a decision is just or it is not. American citizens—or anyone else—should not have to pay for just decisions or righteousness from our government officials."
Dey left positive legacy for golf

"There was no one like him and never will be. He was a fighter who believed in doing the right thing." That observation was made by Frank Hardt, USGA secretary, about Dey.

Dey died March 4 at age 83 at his home in Locust Valley, N.Y., after a five-year battle with emphysema.

Dey turned around Bengyfield's life. In the U.S. Air Force during the Korean Conflict, Bengyfield was considering the military as a career when he received a letter from Dey inquiring of possible interest in a job with the Green Section. Bengyfield's feet have been on the ground since.

Dey, who with Richard Tufts held the Green Section together in its formative years, told Green Section personnel that a shoulder patch on their blue jackets reading "Greenspeople" might be appropriate. "You're not present to make golf rules," he admonished.

As for intervening in club disputes, Dey said the answer was simple. "Decide what is best for the game and forget the politics."

In 35 years with the USGA, Dey helped shepherd that organization from a small operation to a group respected around the world.

He took on perhaps his toughest task rather late in his career. In January 1969 he became the first commissioner of the PGA Tour. Touring professionals and the PGA of America were sharply divided. Diplomacy, some tough talk and respect for Dey's unwavering demand for fairness healed the split.

He served as secretary of the World Amateur Golf Council from its inception in 1958 until 1969. Golf's gain was journalism's loss. Dey dropped out of the University of Pennsylvania to become a part-time sports writer with the New Orleans Times-Picayune. Next came posts at the Philadelphia Public Ledger and Philadelphia Evening Bulletin, and duty included covering football and the Philadelphia Athletics baseball team.

His specialty, though, was golf, and his reporting highlight was a shot-by-shot description of Bobby Jones completing the Grand Slam in the 1930 U.S. Amateur at Merion (Pa.) Cricket Club.

His last tournament coverage as a sports writer was the 1984 U.S. Amateur at The Country Club of Brookline, Mass. Frank Hardt, USGA secretary, recommended Dey as the new executive secretary.

Pierce said it

In a story in the February issue announcing Pioneer Peat, Inc.'s new soil blenders, president Mike Pierce commented on the machines making blending more affordable.

The quote was mistakenly attributed to Chuck Dixon of Inter-

ational Sports Turf Research Center.

GOLF COURSE NEWS

To the Editor:

In your February issue, Mark Hoban, president of the Georgia GCSA, questioned why a superintendent wasn't included on the initial planning team I identified in my talk in Paris.

Well, I come from a family of superintendents, and am a third-generation owner, architect and superintendent. No one appreciates the contributions of superintendents more than I. Furthermore, I can assure you that members of the American Society of Golf Course Architects work to bring the superintendent on board as soon as possible.

In my talk, however, I was talking about the initial planning team assembled by the owner prior to any specific discussions on the project or golf course. At this point, the architect is working with other disciplines to develop the best possible overall plan for the development. As soon as the golf course project is firmed up, we certainly look to the superintendent for expertise.

Sincerely,

Dan Maples
President

ASGCA
**Oil leak detector: From Napa to world**

By Mark Leslie

Don Martinez imagined his homemade invention might see the light of day outside Silverado Country Club in Napa, Calif., where he was mechanic and assistant superintendent. But did he believe it would be standard equipment on machines that the United States to Europe?

Now, thanks to Bob Holland of B.H. Sales in Santa Rosa, Calif., Martinez’ hydraulic oil-leak detection device is part of all new Toro Co. Series triple mowers, and it is being adapted to be used by mowers already in the field.

The result could save golf course crews from “disasters,” superintendents say.

Frank Albino, superintendent at Lafayette Country Club in Jamesville, N.Y., said if the unit stops one leak it will pay for itself. He wishes he had had it on one of his triple mowers last fall when a hose sprung a leak and, by the time the operator noticed it, 2,000 square feet of bentgrass was destroyed on one green.

“It can be a big disaster,” said Albino, who resolded the green. “You put a green out of commission, have to repair it and get it back to the shape it was in. It can take a long time.”


date added

**Japan or U.S., communications the key**

By Peter Blais

Just as in the United States, communication is the biggest problem facing a superintendent working in Japan, according to an American-born superintendent plying his trade in the Far East.

Anytime a superintendent gives instructions to a staff member, even if the two speak in the same language, those instructions can be misunderstood, even if the two speak in the same language, those instructions can be misunderstood. But did he believe it would be standard equipment on machines that the United States to Europe?

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White opens turf consulting firm

WATKINSVILLE, Ga. — Charles B. “Bud” White, a long-time agronomist with the United States Golf Association Green Section and more recently the director of golf and landscape operations at the Harbor Club in Greensboro, has formed a company specializing in professional turfgrass consultation.

Total Turf Services, Inc., headquartered here, will provide technical and managerial assistance to golf course architects, superintendents and other turfgrass professionals. Total Turf Services offers a variety of services including growing management, budget development, equipment need determination, custom fertilizer programming, maintenance facility planning and evaluation, soil testing and irrigation and drainage consultation.

“Today’s turf specialists face an ever-increasing workload and greater responsibility than at any time in the past,” White said. “I view my role as someone very familiar with the industry to help people with their problems.”

White is a graduate of Catawba Valley Community College, Tennessee Technological University, and has a master’s degree in turfgrass management from Clemson University. He is a certified professional agronomist.

USGA’s Northeast conclave set

A range of topics, from pond management to the Audubon Cooperative Sanctuary Program, will be discussed at a day-long United States Golf Association regional conference April 4 at Weston (Mass.) Golf Club.

USGA Green Section agronomist James Connolly, who works out of Willamantic, Conn., headquarters, will talk on integrated pest management at 9:15 a.m., followed by USGA ecologist Nancy Sadlon, who will discuss the Audubon program and how it affects golf course habitats.

New GCSAA President Stephen Cadenelli of Manasquan, N.J., will present new perspectives on pesticide storage, and USGA Green Section Northeastern Region Director David Oatis will discuss the question “Where did the green in green speed go?”

In the afternoon Anthony Zirpoli Jr., director of USGA Regional Affairs and Amateur Status, will explain marking and defining courses for tournaments and daily play. Agronomist James Skorulski will then tell how to protect trees and Tim Moraghan, the USGA’s agronomist for championships, will talk on “The Incredible Shrinking Golf Course” before a conference-ending video, “Hale Storms Medinah.”

More information is available by contacting James A. Farrell, USGA Regional Affairs, 177 Georgia Ave., North Kingston, R.I. 02852; 401-295-5430.

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By Bob Spiwak

Dick Schmidt was not born with a silver spoon in his mouth. Many kind of spoons was involved in his youth, it was a golf club at Indian Canyon golf course in Spokane, Wash. If any kind of spoon was 51, he's still involved.

Schmidt is operations manager at Sun Mountain Lodge, 25 miles south of the Canadian border in north central Washington. Perched on a hilltop overlooking the calendar-perfect Methow Valley, the resort is halfway and $20 million through four phases of a multimillion-dollar renovation. It has all the amenities, from river rafting to heli-skiing, an outdoorsy person could want. All but golf.

The resort, operated by Village Resorts, Inc. of Lakeland, Calif., does offer golf packages at nearby nine-hole Bear Creek Golf Course in Winthrop and at 18-hole Lake Chelan, 60 miles away, but it does not brag of a course of its own. Yet.

Enter Schmidt: A PGA pro, Class A certified in Golf Course Superintendents Association of America, he came to Sun Mountain last September from the renowned Port Ludlow course on Puget Sound. He was superintendent there many years, and also built the course designed by Robert Muir Graves. Ludlow also is operated by VRL.

In addition to superintending, Schmidt's last labors at the top-rated resort course were as director of golf and recreation. For more than a year, upper Methow Valley has been rife with rumors that Sun Mountain was going to build a golf course. Management neither has confirmed nor denied these rumors. The very low profile may be to avoid hassles such as have befallen the proposed Early Winters Resort a dozen miles to the west.

Early Winters has been trying for 20 years to begin its ski hill and golf course designed by Graves. The earth remains untouched. Schmidt's appearance may be no coincidence. His father, Louis, built the Indian Canyon course designed by H. Chandler Egan in the 1930s, and stayed on as superintendent many years, and also gave lessons.

"Even then," he continued, "there was a need to change the overall image (of the superintendent) to one of a professional. It was a struggle because of the attitudes of the pros and the members. We still were called greenskeepers." Schmidt was 5 years old.

When his dad moved from Spokane to Inglewood Country Club in north Seattle as superintendent, Schmidt became his assistant. That club was owned by Jack Barron, who later built the original Sun Mountain Lodge.

A year later, the Quadrant Corp. began developing golf course communities in the Seattle-Tacoma area. Schmidt became construction superintendent, and oversaw the building of a half-dozen courses. With a father who built world-class courses such as Sahalee and Indian Canyon; an uncle, Clarence, who built Esmeralda in Spokane and Twin Lakes in Idaho; a brother, Raymond, who constructed Kayak Point in Everett, Wash., Bellevue Muni and Arnold Palmer-designed Semiahmoo, little wonder Dick sought a monumental endeavor of his own imprimatur.

He got it at Port Ludlow.

In 1973 there wasn't a tree down on what was to become one of the Northwest's premier courses. Graves had it designed and the centerlines had been surveyed. Of 160 acres dedicated to the course, "80 were peat bog, the other half basalt rock. We couldn't bail out the peat. In some places it was bottomless. We had to use five-foot-wide plank walkways we made out of cedar trees we dropped to get crews out to bridge the peat." "Bridging" meant laying rock atop the peat, which compressed the peat and eventually created a road for access. Graves and Schmidt were determined that the natural forested, rhododendroned site be disturbed as little as possible.

"We ended up with 160 acres of rock. Fortunately, there was a hillside that was all sand," he smiled, "and we trucked this in to lay about two feet over the entire 160 acres."

He pointed out the seventh green. 'There was no tree down on what was to become one of the Northwest's premier courses. Graves had it designed and the centerlines had been surveyed. Of 160 acres dedicated to the course, "80 were peat bog, the other half basalt rock. We couldn't bail the peat. In some places it was bottomless. We had to use five-foot-wide plank walkways we made out of cedar trees we dropped to get crews out to bridge the peat." "Bridging" meant laying rock atop the peats, which compressed the peat and eventually created a road for access. Graves and Schmidt were determined that the natural forested, rhododendroned site be disturbed as little as possible.

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He pointed out the seventh green. There are 5,000 yards of sand subgrade on that Course...
California mechanic's oil leak invention hits it big

Continued from page 22

sprung three hose leaks that day but the Sentinel saved the day. The detection device sounds an alarm that warns the operator after only three to five ounces of oil spill so he can shut down the machine immediately and get it off the green.

"With that kind of (hydraulic) pressure you can lose all the oil within two to three minutes," Singh said. "I've been impressed with it. I just bought a mower six months ago and am going to put one (Sentinal) on it."

Singh explained that his crews oftentimes are mowing before daybreak when it's difficult to see. "Even in daytime often you can't see a leak, especially if it's a minor one," he said.

Lee Scriber, assistant superintendent at Lafayette Country Club, said leaks can easily be mistaken for the mowers that are ripping or not cutting correctly.

Holland added that early mowing is often done in fog and with dew on the grass. "Once I saw a course lose 17 greens," he said. Singh said: "In the 20 years I've been here we've probably had a dozen leaks on greens. A couple of times we had to sod quite a few places... Not only is it expensive, but the resodded greens are uneven."

"We've tried everything possible - taken charcoal, washed soil in, used foam, swept it... there's no way to get it out," he said. Holland said crews have followed leaks by verticutting the green and then overseeding. "That's not costly but it's not eye-appealing either," he said.

Holland four years ago arranged with Martínez to market the invention. After making some modifications to the unit over the next three years, Holland struck a deal with Toro giving the company exclusive rights to the Greens Sentinel in the new product turf market. Holland retains rights to the "after market," those mowers already in the field.

Toro has 45 distributors in the United States, and officials will talk with European distributors about the Sentinel in April, he said.

Martínez' invention uses a two-chamber tank, whose center chamber has a float in it that allows for the pitch and roll of greens. Hindicates when the oil pump has an air leak on the suction side.

It bolts onto the hydraulic-oil tank or fender and can be modified for use on machines other than Toro's. Holland also expects to tap the market of fishing fleets, road sweepers and the like.

Schmidt

Continued from page 24

green alone."

Schmidt said building Port Ludlow was the ultimate golf course construction job. During the final seeding, they prayed that the fairways and greens would not settle. That would mean destruction of tile and irrigation lines. In two years of moving material, he estimates two million yards of fill were used. Now, almost 20 years later, he says two greens and a fairway are settling.

He stayed at Ludlow as superintendent and director of golf and recreation. The job was expanded to director of golf for Village Resorts' operations in Washington, Utah, Arizona and California. He retains that title as well as that of operations manager at Sun Mountain. He travels to the other courses to oversee the pro shop budgets, sales and policies as well as landscaping and maintenance.

At Sun Mountain, he is responsible for job training, budgets, employee relations, and, he stresses, instilling Village Resorts' "core values": quality, respect and integrity.

"Management should treat employees as it expects the employees to treat the guests," he said.

He looked out from the closed lounge on a deck cantilevered over the valley. Below were hundreds of acres of valley floor, the pristine Methow River ribboning its way across them. Looking at the snow-covered vista, fairly certain that some of it would contain a golf course, Schmidt pondered what he envisioned.

"If," he grimed, "we build a course here, I want it to be a world-class operation - one where word of mouth will draw golfers from all over. Look at this place. It has scenery, serenity. No airplanes, no traffic noise. I want this course to look as though nature, not a construction company, built it. Golf in the Methow on a world-class course would be simply awesome!"

For a PGA pro, GCSCA superintendent, three times Turfgrass Association president and regional GCSCA board member, the challenge seems appropriate.

He's constrained from divulging any information, but in his eyes you could see him thinking, "Let's do it."

Bob Spinak is a freelance writer based in Winthrop, Wash.

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Golf Course Superintendents Association.

This action, taken at the IGCSA’s recent meeting, should tighten industry bonds.

The new members will be welcomed at IGCSA meetings and golf tournaments, and will receive copies of the “Reporter,” the IGCSA’s semi-monthly newsletter.

ROCKY MOUNTAIN SHOW RAISES $30,000

DENVER, Colo. — The 57th Rocky Mountain Turfgrass Conference and Trade Show attracted more than 1,000 persons, 174 exhibitors and raised $30,000 for the Rocky Mountain Turfgrass Research Foundation.

Chief conference topics were golf, lawn and landscape, and parks and sports turf.

Special workshops addressed grass identification and soil fertility for Colorado turfgrass.

The 38th Turfgrass Conference will be held in Denver on Dec. 2-4.

West

CONSERVATION GROUP FORMED

The Southern California Golf Course Superintendents Association is forming a water conservation group.

President Raymond Davies said the organization will be similar to a San Diego golf course water conservation group.

Its purpose is a public relations effort with water agencies and the public, he said.

MOORE GETS HEAD JOB

Assistant superintendent Dan Moore has replaced Steve Maas as head superintendent at Coeur d’Alene resort golf course in Idaho.

According to Moore and Director of Corporate Communications Steve Wheeler, Maas is more interested in the construction side of the industry and may be moving in that direction in his career.

SOUTHEAST

SUPERS OF THE YEAR

CHARLOTTE, N.C. — Fred Meda and Bill Anderson recently were honored as Superintendents of the Year by the Carolinas Golf Course Superintendents Association.

More than 1,000 attended the show, North Carolina Gov. Jim Martin commended the organization for helping fund needed research, and emphasized the importance of the turfgrass industry plays in the state’s economy.

The conference is sponsored by the University of Georgia Coastal Plain Experiment Station and USDA in the cooperation with the Georgia Golf Course Superintendents Association, United States Golf Association Green Section, Abraham Baldwin Agricultural College and Cooperative Extension Service.

April 15 will feature a tournament and tour of the university’s turf research plots. A full day of talks on April 16 will begin with USGA Green Section Research Director Michael Rennia giving an update on USGACGA breeding and environmental research. For more information, people may contact Waldene Barnhill at 912-386-3353.

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**LOCAL REPORTS**

**South Central**

**WEST TEXAS GCSA ELECTS BYRD**

SNYDER, Texas — David Byrd of Hogan Park Golf Course, Midland, is the new president of the West Texas Golf Course Superintendents Association. Clint Deeds, new superintendent at Tacosa Country Club in Amarillo, is the vice president, and George Fugitt of Jacobsen Turf and Commercial in Lubbock is secretary-treasurer.

Future meetings set during the group's annual meeting at Western Texas College were: May 20, The Club at Mission Domingo, Odessa; July 2, Gaines Country Golf Club, Seminole, and Aug. 12, Tascosa Country Club.

The fifth annual West Texas Turf Grass Conference golf tournament and barbeque will be Oct. 15-17 at Western Texas College. The college's golf and landscape technology department co-sponsors the event, and the college's Don Backland will chair the conference planning committee.

The Texas Turf Grass Conference will be held Dec. 9-11 in Ft. Worth. No date was set for the Dow/Elanco Texas Trophy competition to be hosted by the North Texas GCSA in September.


Superintendents associations and others are invited to send news stories to: Golf Course News, P.O. Box 997, Yarmouth, ME 04096.

**Northeast**

**NYSTA ELECTS SMITH**

Stephen Smith, a former golf course superintendent who is now in sales at P.L.E. Supply Co., heads the new slate of officers for the New York State Turfgrass Association.

Smith, who succeeded William B. Stark III of Turf Renovations in Holmen, is joined by Vice President Michael Mafette of Back O' Beyond in Breverester and Treasurer John Liberti of Heritage Park in Loudonville.

Directors are Frank Bedin of O.M. Smith in Pine Bush; Tom Corell of J&I Mikes in Jamaica; John Fisk of Park Ridge Hospital in Rochester; Steven Griffin of Saratoga Sod Farm in Stillwater; Peter Han of Penfield (N.Y.) Country Club; Karl Olson of National Golf Links in Southampton; Anthony Feca Jr. of Batavia (N.Y.) Turf Farms; Peter Salametti of Schuyler Meadows Club in Loudonville; and Tom Strand of Vestal Hills CC in Binghamton.

**N.H. OFFERS EDUCATION**

The recent New Hampshire Turf Conference offered a new educational session for turf equipment mechanics.

There is a growing need for this type of education as equipment becomes more specialized.

The 1991 NHGCSA scholarships were awarded at the conference opening session.

The five recipients each received a plaque and $570. All attend Stockbridge Turf School at the University of Massachusetts.

They are Andrew McHugh, Pequannock, Mass.; Dave Elliot, Nashua; Randall Scott Weeks, Sunapee; Robert McPherson, Peterborough, and Glenn White, Derry.

**FUSEK PENNSYLVANIA-BOUND**

Ken Flisek, superintendent at The Woodlands in Falmouth, Maine, will leave at the end of April to be superintendent at The Club at Nevillewood, a Jack Nicklaus-designed course being built in Collier Township, Pa.

Ground has been cleared on the site and heavy earthwork is underway.

Flisek, 33, superintendent at the exclusive Woodlands residential community since it opened in 1987, will be returning to his hometown area. He grew up caddying at Oakmont (Pa.) Country Club and earned a turfgrass management degree from Penn State in 1981.

He was assistant superintendent at Castle Pines Golf Club, a Nicklaus design, from 1981 until taking the head post at the another Nicklaus layout, Grand Traverse North Course in Traverse City, Mich., in 1983.

He moved in 1985 to The Apawamis Club in Rye, N.Y. He prepared The Woodlands for a Ben Hogan Tour stop in 1990 and has been a speaker at superintendents conferences.

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6. Comes fully equipped to mount onto your mower.

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Communications crucial on Japan courses

Continued from page 22

overseed, they simply close the zoysia and open the bentgrass green when the cold descends. Fairways are generally zoysiag and rarely overseeded. That eliminates the need for fall verticutting and reduces clipping. With landfills space at a premium, clipping re-oval is strongly discouraged, Baranski said.

Maintenance facilities are generally larger than in the United States. Office areas alone often have more square footage than entire U.S. maintenance sheds.

Japanese managers rarely have mobile offices, instead working in the same room with their employ-ees. "The head guy sits at the back," Baranski explained. "The 10 guys under him sit directly in front of him. There are 10 more desks in front of them, and then 10 more and 10 more and so on.

"There are no partitions so everyone can see what everyone else is doing. If you need to talk to someone, you can walk over to his desk and solve the problem right away. It's real easy to get work done in that system."

While Baranski likes some as-pects of the Japanese work system, he dislikes others. For instance, every Japanese maintenance crew member has his own desk and keeps daily records of his activities.

"I think it's a waste of time," he said. "But that's what the owner and management have requested. I try to keep their paperwork to a mini-mum. But they still spend 30 to 45 minutes a day recording the work they've done."

Superintendents are called "keepers" in Japan. No formal educational programs exist. But keep-ers read a great deal. Thirty to 40 golf publications deal with course maintenance. They are made avail-able not only to superintendents, but also managers, directors and club members so they can become better informed.

The general manager rather than the keeper makes management decisions. The general manager hires and fires employees. Firing is infrequent. Even the least productive 18-year-old is likely to stay with the same company for life.

Compared to the United States where a superintendent can go through 30 or more 18-year-olds before finding one with the desire and potential who justifies spending extra time and money in training, Baranski said.

"My time in Japan has changed my ideas about how to deal with employees," Baranski said. "I have to find some value in everyone who works for me because I can't get rid of them. In the past I may not have wanted to take the time to find value in an employee. In Japan, they make you take the time."

The team concept is strong in Japan, Baranski said. Older crew members take younger ones under their wings and train them.

"Some things they teach are good and some not so good," Baranski said. "For example, when I first got there the acting keeper mixed chemicals by hand — no gloves, no mask. He just poured the mix into the spray tank. At last I got him to wear gloves, anyway."

The Japanese government se-verely restricts chemical use, but not necessarily in what Baranski considers the safest manner. The prefecture in which his course is located limits use to 2,000 kilograms of chemicals per year. But it doesn't restrict the type of chemicals nor is it concerned with active ingredients, he added. Weight is the important thing.

"It forces people to use higher concentrations," Baranski said. "You wouldn't use a 5-percent granular product because it uses too much of your weight limit. You'd use a concentrate instead. The re-sult could be a much bigger prob-lem if there is a spill or some type of accident."

Finally, the Japanese use more hand labor than do Americans. For example, walking greens mowers are used far more in Japan than the United States, Baranski concluded.

SNYDER, Texas — The West Texas Golf Course Superintendents Association has announced several appointments in the region.

New golf superintendent ap-pointments in west Texas include: Lanny Ivy, Anson CC; Robert Crockett, Canadian CC; Terry Smith, Childress CC; Al Ramsey, Clarendon CC; Charles Pack, Knox City CC; Bryan Daniels, Lakeridge CC; Lubbock; Richard Piper, Paducah CC; Gary Cudney, Pampa CC; Sonny Taylor, Pecos County Municipal, Fort Stockton; Brad Fluit, Brentwood CC, San Angelo; Mark Hummersley, Sundown GC; Roger Ray, Tule Lake CC, Tulia and James Hubbard, Winters CC.

New golf superintendent ap-pointments in west Texas include: Lanny Ivy, Anson CC; Robert Crockett, Canadian CC; Terry Smith, Childress CC; Al Ramsey, Clarendon CC; Charles Pack, Knox City CC; Bryan Daniels, Lakeridge CC; Lubbock; Richard Piper, Paducah CC; Gary Cudney, Pampa CC; Sonny Taylor, Pecos County Municipal, Fort Stockton; Brad Fluit, Brentwood CC, San Angelo; Mark Hummersley, Sundown GC; Roger Ray, Tule Lake CC, Tulia and James Hubbard, Winters CC.

Derwin Price, Fairway Oaks CC, Abilene, and John Han, Palo Duro GC, Canyon, were appointed as-sistant superintendents.

Appointed pro/managers were Paul Barlett, Canyon CC, Danny Riddle, Floydada Country, and Eddie Baker, Southwest GC, Amarillo.
Study finds similar nitrate losses on variety of lawns

RICHMOND, Va. — Cornell researchers have measured nitrate losses from turfgrass areas on many soil types and have found that nitrate losses on many fertilized lawns were no greater than those on unfertilized areas. Dr. Norman Hummel told the 30th Virginia Turfgrass and Landscape Conference and Trade Show.

Hummel said similar findings have been reported from around the country on many soil types. The conference was highlighted by presentation of the Virginia Turfgrass Council Award to Dr. Rajandra N. Waghray, Fairfax County extension agent. Waghray long has served the Virginia Turfgrass Industry and Virginia Tech in the fields of turfgrass and ornamental entomology and integrated pest management.

Def. Houston B. Couch, professor of turfgrass pathology at Virginia Polytechnic College and State University in Blacksburg, was presented the R.D. Cake memorial award for significant contributions to the development of the Virginia Turfgrass Industry.

His research is said to have saved turfgrass professionals thousands of dollars by his development of more effective methods of controlling disease. Several Virginia turfgrass associations and individuals committed funds to the newly formed Virginia Turfgrass Foundation for turfgrass research, teaching and extension programs.

Duff Beagle received the Norman scholarship, Kayle Bigelow the Thomas L. Hutcheson Jr. scholarship, and Karen Kuhne the Larry S. Jones memorial scholarship. Virginia Turfgrass Council scholarships went to Scott Ligon, Lisa Simonds and Tom Wilson, students in the newly formed Agriculture Technology school.

Hummel of Cornell University's department of floriculture and ornamental horticulture, explored the turf manager's role in protecting ground water.

There are many benefits to applying fertilizers to lawns and other turfgrass areas, he said. In addition to improving turf appearance, fertilizers help promote turfgrass health and vigor. Nitrogen is the nutrient most needed by turfgrasses.

While the soil contains some nitrogen, Hummel noted, it usually isn't enough to maintain a quality lawn. Thus, turfgrass fertilization is an important part of any turfgrass maintenance program. Nitrites, a form of nitrogen, can be leached or carried through the soil by water. When large amounts of nitrides reach the ground water, they can accumulate to toxic levels.

Hummel said Cornell's research into nitrate losses found that in some cases, the potential for nitrate leaching exists. He said conditions that will promote leaching include: sandy soils, too much water from irrigation or rainfall, applying more fertilizer than necessary, and using water soluble (quick release) fertilizers in the late fall.

Waghray stressed that anyone concerned over pesticide use — residues, liability, human health hazards, cost and environmental quality — can establish and practice an integrated pest management program.

These include governmental agencies, golf course superintendents, athletic field managers, sod growers, lawn care companies, grounds managers and homeowners desiring a change from a piece-meal pest management approach to a more organized, ecologically sound program. He recommended more applied research at universities to establish pest threshold levels and biological control of pests.

He also emphasized employee training for scouting and monitoring of pests in cooperation with extension service, and customer education and communication.

Sod producers change meeting

PORTLAND, Ore. — Because of existing and potential problems associated with the 5-year-old California drought, the American Sod Producers Association's 1991 summer convention has been relocated from Santa Barbara to Portland.

The convention and field days will be July 31-Aug. 2, one week later than originally scheduled.

The Red Lion Lloyod Center will be the group's headquarters hotel, and the ASPA's annual business meeting, education sessions and committee meetings will be held there.

The California SPA recommended convention relocation, citing unpredictable water supplies and questionable field conditions.

Further information may be obtained by calling ASPA offices at 708-705-9898, or by writing ASPA at 1855-A Hicks Road, Rolling Meadows, Ill. 60008.
TPC designs face ‘sweeping changes’

By Bob Seligman

PGA Tour officials are switching the emphasis of Tournament Players Club courses to layouts using more of the natural surroundings while being less penal in nature. Bobby Weed, chief designer for the PGA Tour, said the movement began last year when PGA Tour Commissioner Deane Beman said a need existed for more traditional courses. It gained momentum after a survey of more than 150 touring pros showed that they like those types of layouts.

“In the 1990’s you’ll see some sweeping reforms in the way we build the golf courses and it will start with design,” Weed said. “We want to revert back to some of the traditional design, and that doesn’t necessarily mean target golf.”

It does mean a move away from the severity of the first TPC at Sawgrass, in Ponte Vedra Beach.

By Bob Seligman

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It does mean a move away from the severity of the first TPC at Sawgrass, in Ponte Vedra Beach.
Courses planned and approved across U.S.

Following is a chart containing the sites and contacts for new courses and renovations in the preliminary planning stages. When these courses are ready to begin construction they will be listed again in the "Courses newly approved in the U.S." chart.

We would appreciate your help in updating this section. To contact us call 207-846-0600 or write Golf Course News, P.O. Box 997, 38 Lafayette St., Yarmouth, Maine 04096.

<table>
<thead>
<tr>
<th>Location</th>
<th>Course Name</th>
<th>Type</th>
<th>Holes</th>
<th>Address</th>
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<td>California</td>
<td>Murietta La Perla de California</td>
<td>D</td>
<td>9</td>
<td>N/A</td>
<td>Nadel Partnership</td>
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<td>Florida</td>
<td>Naples Lely Mustang Golf Resort</td>
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<td>18</td>
<td>Lely Resort</td>
<td>Lee Trevino/William Graves</td>
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<tr>
<td></td>
<td>West Palm Beach</td>
<td>M</td>
<td>36</td>
<td>N/A</td>
<td>Gary Player</td>
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<tr>
<td>Georgia</td>
<td>Alma Blueberry Plantation</td>
<td>P</td>
<td>18</td>
<td>Hwy 32E</td>
<td>Larry Hinson</td>
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</tbody>
</table>

McCumber moves headquarters, expands division

ORANGE PARK, Fla. — McCumber Golf has relocated to new headquarters at "The Pavilion" here.

Mark McCumber's personal office is located here with his design team, led by golf course architects J. Christopher Commins and Michael Beebe. McCumber Construction and the Golf Facility Management divisions are also here.

Motivated by the sale and ongoing supervision of the Ravines, the Golf Facility Management Division has continued to expand its role within the corporation, administering contractors and daily operations of other golf clubs and resorts.

In addition to the move, Cheryl Robertson has joined McCumber Golf as the new director of communications. She completed her graduate studies at Florida State University in 1979 and has taught French and English in the area's community colleges. She was the Membership Coordinator for the PGA Tour from 1983 to 1990.

Golf Course News is publishing this list monthly. It includes courses that have been approved around the country in the past month. In addition, the chart to the left contains the sites and contacts for new courses and renovations in the planning stages. When those courses are ready to begin construction they will be listed again in this "Courses newly approved in the U.S." chart.

Under "Type" — D= Daily Fee; P= Private; and M= Municipal.

Location Contact
California San Clemente The Arvida Co.
San Clemente The Arvida Co.
Connecticut North Haven John Prete, Woodbridge Inland Wetlands Commission
Woodbury Florida
Connecticut
New York
Whitehall
Oregon
Reedville
White City
Pennsylvania
New Garden
South Carolina
Anderson
Texas
Greenville
Wisconsin
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Compare the Facts for Yourself.
Growing fire ant problem increases need

Industry researchers responding to problem

By Peter Blais

The golf industry let out a collective sigh of relief this winter when the course by fire ants. Beach was not responsible for the death of a golfer who was bitten on the course by fire ants. Wayne Iftner, assistant sales manager for golf courses with Woodbury Chemical Co. in Florida.

The problem is the adaptability of the fire ant. Since first arriving from Brazil aboard a ship that docked in Mobile, Ala., 40 years ago, fire ants have spread into 13 states throughout the Southeast and South Central United States. They have been reported as far west as California and north as Pennsylvania.

Fire ants have inexplicably evolved from single-queen into multiple-queen colonies in recent years. Some colonies have as many as 200 queens with super colonies having more than 500 mounds per acre.

Fire ant stings raise blisters on most people. Insect bites result in as many as 85,000 allergic reactions annually requiring medical treatment and caused 30 deaths last year.

"A 22-year-old woman died here in November from a single bite," said Paul Flanders, head of marketing for West Palm Beach Fla.-based Universal Industries, manufacturers of Coleman Instant Fire Ant Killer.

The insect can sting repeatedly without damaging itself. The sting releases a chemical that attracts other fire ants and causes them to overwhelm a victim. A dog pushed a 16-month-old Pensacola, Fla., girl onto a mound three years ago.

An exclusive Golf Course News survey:

<table>
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<tr>
<th>Company</th>
<th>Product name</th>
<th>Mode of application</th>
<th>Time to control</th>
<th>Level of control</th>
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<td>AMDRO</td>
<td>Broadcast bait</td>
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<td>201-831-3573</td>
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<td>Circle #301</td>
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<td>&amp; Ingested</td>
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<td>Scott Moffitt</td>
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<td>Gary Johnson</td>
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<td>800-842-8203</td>
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The ants stung her hundreds of times and she died of anaphylactic shock. "I won't take my kids fishing or camping anymore," said Jim Moore, director of the United States Green Section's Mid-Continent Region in Waco, Texas. "If you're in bed, they can cover your feet and ankles in seconds."

While fire ants are a severe problem in the wild and on farms in Texas, golf course superintendents seem "to be right on top of the problem," Moore said. "Members sometimes help out by taking shakers with them and applying the pesticides to mounds they find. You have to stay right on top of it. Otherwise you'll need a broad-scale application that costs a lot of money and tends to scare people."

Fire ants are attracted by electrical current and have shorted out telephone and power equipment by getting into the equipment and eating the insulation. Mitchell said the most effective control seems to be a combination of different pesticides — an individual mound treatment that physically kills the ants, combined with broadcast contact pesticides and broadcast baits.

The contact pesticides control or kill the insects, Mitchell said. Worker ants take the baits back to the mounds where they sterilize or kill the queen, Mitchell added.

Mound applications can permanently eliminate ants from that particular mound. But they won't permanently discourage ants from returning to that area, said Darrell Kelso, national products manager for Valent USA, manufacturers of Orthene.

At least twice a year, new queens and male ants come out of their mounds. They can fly as high as 500 feet and as far as 15 miles. A queen, who can lay as many as 1,500 eggs a day, may land near a treated mound, burrow into the ground and start a new colony. The old mound may have been controlled. But when a superintendent returns to a treated area and finds new mounds just a week later, he may not perceive that as permanent control, Kelso said.

### Products manufactured to fight fire ants

<table>
<thead>
<tr>
<th>Duration of control</th>
<th>Cost/acre</th>
<th>Formulation</th>
<th>Precautionary statement</th>
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<td>70 dys</td>
<td>$7/acre</td>
<td>Granules</td>
<td>Caution</td>
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<td>Several wks</td>
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Florida, California lead golf course construction

Golf course construction continues strong in the United States with Florida and California leading the way, according to the National Golf Foundation.

The NGF was tracking 1,630 projects nationwide at the end of 1990 up from 1,356 projects a year earlier.

The final 1990 tally shows 289 courses opened, one below the 290 in 1989 and well above the 211 in 1988. The nation averaged less than 150 openings annually for many years before that.

Things look bright for 1991, according to the NGF. The 560 courses under construction at the end of 1990 is a significant increase over the 463 a year earlier. The number of courses in planning rose from 285 to 781 during the same period.

Florida led in course openings for the sixth straight year with 41, more than the next two states combined—South Carolina, 21, and California, 17.

However, California ranked first in course openings under construction with 43. Michigan was a close second with 42 and Florida third at 39. California is consistently among the top five in total golf course construction activity.

The Top 10 Openings
1. Florida 41
2. South Carolina 21
3. California 17
4. Michigan 15
4. North Carolina 15
6. Texas 13
7. Georgia 11
7. Illinois 11
7. Arizona 11
9. Minnesota 10
9. New York 10
10. Pennsylvania 8
10. Arizona 8
10. Missouri 7
All others 111
Total 289

Under construction
1. California 43
2. Michigan 42
3. Florida 39
4. Georgia 28
5. Ohio 28
6. Illinois 24
7. North Carolina 21
7. South Carolina 21
7. Virginia 21
10. New York 20
10. Pennsylvania 20
12. Minnesota 17
All others 236
Total 560

In planning
1. California 116
2. Florida 93
3. Michigan 34
4. Pennsylvania 30
4. Virginia 30
6. Illinois 28
6. New York 28
6. Georgia 28
9. North Carolina 27
11. Ohio 25
11. Indiana 25
12. South Carolina 23
All others 292
Total 781

Of the 289 courses opened in 1990, 206 were new facilities of nine or 18 holes and 83 expansions of nine or more holes.

The number of expansions shows many operators are trying to close the gap between supply and demand in their areas, according to the NGF. In a recent survey, golf course operators said their facilities were at 90 percent of capacity. Most added that their areas needed more courses.

The NGF's review of golf course construction for 1990 shows that:

- Real estate continues to drive much golf course activity. Forty-seven percent of the courses opening last year and 42 percent of those under construction were parts of larger real estate developments.
- Among the three leading states in course openings—Florida, South Carolina, and California—all are warm-weather, vacation, and retirement-oriented regions. Florida had 76 percent real estate courses, South Carolina 71 percent and California 59 percent, all above the national average of 47 percent.
- Seventy percent of courses opening last year are accessible to the public, either daily-fee or municipal. Overall, public courses outnumber private ones two to one. Approximately 80 percent of all rounds played are at public facilities.
- Among the 206 new courses opened a year ago, 60 were 9-hole courses, of which 35 had no further expansion plans. With rising land costs, especially in urban areas where golf supply is low, 9-holers remain important and viable.

A breakdown of this information and additional aspects on course supply are available in the NGF's Golf Facilities in the United States, 1991 Edition.

Anthony W. Gustaitis
Whitemarsh Valley Country Club
Lafayette Hill, PA

David Fleming
Singing Hills Country Club
El Cajon, CA

Ben Crenshaw & David Doggett
Barton Creek Conference Resort
Austin, TX

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These superintendents have all used Providence and/or SR 1020. Their comments have been enthusiastic about the performance of both cultivars: the color, texture, density, disease resistance, heat and drought tolerance are outstanding.

Providence and SR 1020 also produce excellent putting quality. So important to the superintendent and to the golfer. Especially, a professional golfer like Ben Crenshaw. Ben knows golf greens and appreciates a bent that can provide a fine textured, uniform surface with an absence of grain for true putting quality.

Both cultivars produce this outstanding turf and putting quality with reduced maintenance. That's important to superintendents, golfers, architects, and greens committees.

So nationwide the pros agree, Providence and SR 1020 really are exciting new cultivars. They represent the new generation of creeping bentgrasses.

COURSE DEVELOPMENT
Robinson, Carrick meet special challenges of Great North

Golf course architects Robinson & Carrick Associates Ltd. of Willowdale, Ontario, will have two of their designs open in June or July, including one exclusive 389-member course outside a national park setting in Newfoundland.

Doug Carrick said Twin Rivers Golf Course in Terra Nova National Park in Glovertown on Newfoundland’s east coast will open in June or July, while Greystone Golf Club on the Niagara Escarpment in Milton is expected to open July 1.

Developer Burkhard Nowak, who turned his horse farm into Greystone, said the 380 membership units may be leased, sold or willed. The number of members is so low, he said, because of long waiting lines to Toronto area courses.

Carrick said the last fairway was seeded in September. The course contains bentgrass greens, tees and fairways and a blue-grass-ryegrass-fescue mix in the rough.

The first floor of the two-story clubhouse will be complete by July 1, he said.

Stringent environmental laws had to be met at Twin Rivers, where a second nine was built.

Changes were also made to the front nine, which was designed by Robbie Robinson in 1983 but was built in-house by the park district. Parks officials struck an agreement in which St. Christopher’s Resort built the second nine with a 49-year lease, and added an 80-room hotel on adjacent provincial land.

Robinson & Carrick dealt with a number of site-specific railings in the construction. On the 8th hole alone, unique measures had to be taken, Carrick said.

When a large bog next to the 8th green was drained, it could not be pumped into a nearby river because of the bog’s low pH level. A silt fence was installed along the green before construction to protect Salmon Brook.

Because of the slope from the tee to the level of the green 80 feet below, builders could not grub stumps; so they cut trees level and let native groundcovers take over. A bridge was built to span the brook 40 feet above it.

And at that hole and throughout the course, developers had to maintain existing trails and re-route others for fishermen.

Nicklaus designed The Legend ‘to be fun,’ he says

WEST PALM BEACH, Fla.—The Legend, the first of three golf courses at Ibis Golf and Country Club, had its grand opening and dedication Feb. 18.

The Legend, designed by Jack Nicklaus “to be fun,” will feature five tees on each hole.

Nicklaus, who has been criticized for difficult layouts, said: “Gold is meant to be fun. I don’t design a course to suit myself as far as difficulty goes. I design it to match the golfers who are going to play the course.”

“You could play the U.S. Open here,” said Larry Weber, course construction supervisor. “It’s a very challenging golf course but has the flexibility with the tees. It’s designed for the biggest of pros, or the average player.”

Faced with a flat parcel of land, Nicklaus had 1 million yards of earth moved into sculpt the rolling hills and bunkers that comprise the par-72, 7,045-yard course. Another million square feet of sod was laid. The earth was taken from what is now the lakes that wind around the course.

The Legend is a part of a master-planned community by developer Llwyd Eccleston Jr. Eccleston has completed Lost Tree Village and Old Port Cove in North Palm Beach, Fla., and PGA National in Palm Beach Gardens, Fla.

Ibis Golf and Country Club’s other courses will be the Heritage, designed by Jack Nicklaus II, which will feature a par-72, 7,048-yard layout while the third course; and the Tradition, a par-72, 6,915-yard links-style course designed by Tom Pearson, senior design associate for Jack Nicklaus Golf Services.

The Heritage is scheduled to follow early this year, the Tradition a short time after.
Course architects push for a return to traditional design

By Mark Leslie

"Tradition is history ... and we're adamantly traditional," says golf course architect Gary Panks.

Tradition is on the rebound, says colleague Rees Jones.

"Tradition has been lost," retorts Pete Dye, considered by some the ultimate traditionalist and by others the consummate renegade.

Even as many in the golf world have bemoaned the passing of "traditionally" designed golf courses the last 20 or so years, architects are either returning to that look or redefining the word.

"It's time we kicked out a few windows and let in some fresh air... and go back to tradition," said architect Jay Morrish, who works with former Tour golfer Tom Weiskopf.

"Dings, dents and dimples everywhere may be a thing of the past."

The definition of "traditional" itself is critical to the discussion.

Most agree it is defined at least as much by how a course plays as how it looks.

Morrish said the old-time "masters" designed courses to force the golfer to use all his clubs. "You can usually bounce the ball to a portion of most of their greens," he said.

"These architects would allow you to play to your strengths rather than dictate the kind of shots you had to hit to the green. Think of Augusta National and the trouble around the greens. Many times you have three options to play on a hole: You can chip it, pitch it, or put it."

"But on the modern courses, if you miss the green you reach for a wedge... So that was removed, and that is what I refer to as the traditional part of the game."

Jones said, "Basically, the definition of traditional would be that it uses the site as it lays to its optimum rather than forces a course onto the site and builds greens where they shouldn't be built. That's why you have the old traditional courses because when people looked at sites they would look at five or 10 and pick the ideal one... They found the site that was the easiest to build on, that would need the least amount of earth work, that was the most natural in many cases. Today there isn't that much choice of sites."

Jones said the traditional courses "were built in valleys. When you looked for that ideal site you found a receptive landing area. It would be a little concave, like the links courses in which they built all the holes in valleys. They contained your shots better. They allowed you to bounce the ball on (the green) rather than hitting smack into a wall if you hit it short."

"The architects used to build ramps into the greens. They'd lose their grass in the summertime because they didn't have automatic irrigation and the grasses were..."

Some claim developers share 'blame' for circus courses

Developers share the blame with golf course designers for courses loaded with contrived features and that are too difficult for the average golfer, say architects.

"They'll (developers) tell you, 'I want greatest, most beautiful golf course in the state of Arizona, or Australia, wherever you are," said Gary Panks of Graham/Panks International in Scottsdale, Ariz.

Architect Rees Jones of Montclair, N.J., explained: "Developers are trying to get their courses rated highly. And hard is thought to be good."

In the case of PGA West, for which Landmark Land Co. asked Pete Dye to design the world's most difficult course, Jones said: "That wasn't a bad idea because they have five other courses. And it was the standard-bearer of the project and drew people. But it is not the type of diet you want every day."
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Environmental laws may mandate return to the basics

Environmental laws may cause a “natural evolution” back to the traditional bump-and-run golf courses, some feel.

There’s going to be a natural evolution because of water shortages, which will bring back the bump-and-run,” said Gary Banks of Grassman/Ranks International in Scottsdale, Ariz. Panks explained that golf course superintendents in Arizona, Southern California and elsewhere, face water restrictions that will probably result in harder, drier courses with more bounce.

Architect Rees Jones agreed, saying: “With more environmental and water restrictions, maybe we won’t be able to keep the grass as lush, and the golfer will have that option to roll it or fly it up.”

Panks referred to the Arizona regulation allowing no more than 90 acres of turf and 4.8 acre feet of water per year for courses.
TPC courses to undergo transfiguration, Tour says

Continued from page 30

Vedra, Fla., that Pete Dye designed in 1980. "We need to pull back and soften some of the sharpness and try to naturalize the features a little more," said Weed. "Pete Dye had a tremendous effect on golf in the 1980s. To a large degree, many architects took that model and tried to increase the concept. It got to the degree where we got a lot of artificial courses and a contrived look.

"In the 1980s you'll see a little less contrived look working in harmony with the environment and natural features."

Weed said the natural-look TPC courses will have more indigenous plants in the rough and out-of-bounds areas. More drought-tolerant grasses will be used in the out-of-bounds areas to reduce maintenance costs.

In cases like the TPC at Summerlin, in Las Vegas, Nev., which is a future host of the Las Vegas Invitational, the plant material will serve as a buffer zone between the course and housing development.

Designers will also try to incorporate more natural features into stadium seating, one of the trademarks of TPC courses.

"We'll try not to move as much material and dirt," Weed said. "We'll try to reduce scars in the ground from earthwork."

PUBLIC PLAY

But beauty is only skin deep. While TPC courses gain plenty of attention the one week of the year they host PGA Tour events, non-professionals of varying capabilities play the courses the rest of the time. Weed said the future TPC courses will meet those golfers' needs more than in the past.

"In the '80s we got pretty forceful. We had a lot of forced carries that were quite penal to the average player," Weed said. "In the '90s penal design and strategy won't leave the public golfer.

"We need to bring the shot-making values back into the game, and bring back the strategic design element. We want every caliber of golfer to play them (TPC courses) the other 51 weeks of the year."

Many factors will be introduced into the designs of the newer TPC courses, according to Weed. An increased focus on multiple tees will accommodate all levels of golfers.

Bunkers will be placed more strategically, presenting both an opportunity for heroism and penal shots.

Water will still be present, but Weed said it may not come into play as much as in the past.

Additional design changes will be made nearer the holes. Lower-cut turf around the greens will be intended to bring back the bump-and-run shot. Weed said shorter grass has already been incorporated by the TPC at Eagle Trace in Coral Springs, Fla., and at Sawgrass.

Fuzzy Zoeller, the former U.S. Open and Masters champion who is a consultant on the TPC at Summerlin, favors that tactic.

"You shouldn't cut the green off from the amateurs," Zoeller said. "Rolling the ball up is part of the game."

Smaller, flatter greens with more subtle contours will also become part of the newer TPC courses, according to Weed. They will still be faster for tournaments than for regular play.

"With as much technology as we have today, the speed of the greens can get out of control," Weed said. "Any time you have a Stimp meter reading of 12 or more, it's virtually impossible to putt on multi-tiered greens."

Some TPC courses have already begun taking on the look of the future. In addition to the changes at Sawgrass and Eagle Trace, the TPC of Connecticut, in Cromwell, now has small-to-medium-sized greens, and strategic and cluster bunkering.

The course, which has been extensively remodeled, is scheduled to reopen in mid-July, just prior to hosting the Canon Greater Hartford Open.

The TPC of Tampa Bay at Cheval in Tampa, Fla., has softer spectator mounding, and has lots of plant material.

Weed is architect for both the Connecticut and Tampa Bay courses.

FUTURE MODEL

He said the TPC course of the 1990s hasn't been created yet. He said the prototype of the future will be the TPC at Black Mountain, which Weed co-designed with Johnny Miller, in San Diego. It is in the permit process.

"We feel that has a great opportunity to blend in and work with the environment," Weed said.

Even though the new TPC courses aren't likely to become realities for awhile, PGA Tour professionals approve of their direction.

"They have to change," Zoeller said. "We're only there one week a year. You have to think about the people who play there the rest of the year."

Former Masters champion Ben Crenshaw, a consultant at the TPC at Las Colinas in Irving, Texas, said: "People will grow tired of losing a box of balls in a round. People will play it once or twice, but why go back to torture yourself?"

"The trend in architecture the last five years has been on the monomer courses. Most of the people will enjoy a setting where it's a more traditional layout and it must be fair to more levels of golfers."

Larry Nelson, a two-time PGA champion and former U.S. Open winner, said it's the new approach wasn't made in the first place.

"It's amazing there wasn't more learned with the Jacksonville course (TPC at Sawgrass) with the mistakes that were made there," Nelson said. "It was supposed to be a target golf environment. Target golf is OK, but when you have an area five to 10 feet, from 160 yards out, nobody is that good. It goes past skill to the element of luck. I've felt that some of the TPC courses produced the guy who was playing well at that time, instead of the best golfer."

Bob Seigman is a freelance writer based in Pomona, N.Y.

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Continued from page 37

courses that architects are building today are none of the above."

Superintendent Tim Heirs cites architect Tom Fazio’s work at Johns Island in Vero Beach, Fla., as an example of how design should be done. He said: "When you start putting in some of these (modern) design features, you're not only talking about a significant cost increase, you're talking about increased liability because you're hand-drawing significant slopes. You're also talking about environmental concerns because some architects expose using certain grasses. And the simple rule-of-thumb is that every time you add a different grass you have to add different chemicals, and that's not the way to be going.

"And when you add severe slopes, you're adding increased potential for runoff. There are severe slopes out here (at Johns Island) but not that many."

NO MAGIC NEEDED

Panks said "there's no magic" to designing a "traditional" course. "Augusta National is a great example," he said. "You play from the member tees and it's a wonderful course. All they have to do to challenge the pros is move to the back tees and increase the speed of the greens, and suddenly you have a championship test for the best players in the world.

"And you don't even need rough there. You can add that element of rough on some courses—not penal rough but enough rough so that you put driving accuracy back into the game."

In the areas of the country Dye cited, the bump-and-run game is viable. Jones has his new Atlantic Club, which will open next year on Long Island, "will keep the approaches dry so the golfer can bounce it in.

Jones said: "If you think you'll see a lot of people building more concave fairways rather than convex. And the mounding will be emulating the dunes."

"If we can get away from plateau golf courses so you can have more latitude to miss your shot, that will help. Plateaus cut that landing area in half. My designs penalize the shot to the degree it's missed. That's what this concave bowl-type design does for you, rather than the convex design..."

Dye said: "If you can just get the member player off the tee, then everyone has the strength to chip or blast around the green. I generally try to keep landing areas open, but not around the green, where they don't need strength.

"You can make anything hard for the members. But to make it hard for the pros about the only thing you can do is throw them another 1,000 yards."

Morrish, whose courses with Weiskopf are winning more accolades each year, said: "We have decided (traditional design) is the route we want to take."

What does it mean? Using bunkers as an example, Morrish said: "It's a feeling — that windswept, wind-blown feeling. The fingers are twisted, tilted, some high, some low, some coming out of the high points of the green, some out of the low points of the green, they're canted, torched. This is something that everybody has gotten away from over the years."

Heirs said that at Johns Island, Fazio used roughly 105 acres of a 215-acre site. "And that includes a lot of sand," Heirs said. "Basically all the sand that is in the bunkers is what was out here, both yellow and white.

"We did what they used to do in old-time architecture. Very little dirt was moved (approximately 125,000 yards), and most of that was moved to comply with regulations in terms of building a couple of fairways to a certain elevation."

"The topography is what was already here. Tom designed the course to take advantage of those (6-6-foot) elevations and the vegetation. We minimized the removal of trees... None of these areas were contoured. They were here, we have not touched them."

While saying only time will tell how far back architects have come toward designing traditional courses, Jones added: "I don't think anyone ought to change. The mix is good." Fullmer, of the ASGCA, said: "I think it's good to have a little variety in life. That's what golf course architects will give you... There will always be a few gimmicks around. And that's good, too."

Morrish took a Bankin-Robbins approach to the question. "I hope everybody keeps doing it the way they're doing it, because I think we need a huge variety," he said. "That's why we have 31 flavors of ice cream because people like different feels on a golf course. It would be boring if we all tried to do it the same.

"Maybe that's some of the reason other people got away from some of that traditional look to begin with."

Morrish said golf design is very subjective. It's not like building a road where it's either right or wrong. It's always a matter of somebody's opinion. And I have no idea who's right and who's wrong. I think we're all trying to do a good job and make a living. We just are there will always be a few gimmicks around. And that's good, too."

— Paul Fullmer

ASGCA executive director

doing a little different things than some of the other."

Morrish likened hiring a golf course architect to buying a painting. "If you like van Gogh, you buy van Gogh," he said. "If you like Renoir, you buy a Renoir. What you don't do is hire van Gogh and tell him to paint you a Renoir, because he doesn't know how to do it."

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CIRCLE #160

April 1991 39
Dredging OK'd as Coeur d'Alene saga continues

By Bob Spiwak

The Idaho Land Board voted on Feb. 25 to allow Coeur d'Alene Resort to dredge a portion of Lake Coeur d'Alene. The action comes three months after developer Dan Hagadone first sought the permission.

Lake Coeur d'Alene in North Idaho is well protected. Consider this actual scenario: The state Department of Lands has filed suit with the State Attorney General against the state Department of Transportation for polluting the lake. The pollution includes a bulldozer, at least one other piece of heavy machinery, and gobs of earthen debris, all dumped into the crystalline waters during a lengthy attempt to build an interchange on Interstate Highway 90.

So resistance was expected to a request by Hagadone to dredge 9,000 pickup loads of silt from the lake bottom. The request came about after the resort's 14th green, the behemoth floating island, was found to lack the water to float its 5 1/2-foot draft from September to June.

Well, not entirely. The green was designed to move to an alo in the lake, with variable mooring positions from 100 to 175 yards from the tees ashore. However, when the lake level drops each year as mountain runoff freezes, there is only about four feet of water at the closer positions.

A trench was needed to facilitate the float be deepening the water.

The permitting process began Nov. 13, with a 30-day period allowed for research and public input. The matter was in the hands of the Department of Lands and its parent organization, the State Land Board in Boise.

The waters got a little muddied, however, when a planned rip-rap, or boulder lining of the sides of the trench was proposed. The rock faces were an idea to keep the trench sides from sloughing to the bottom, which would require consequent dredging in the future.

Unlike the boulders in the lake, which was accidental, putting in the boulders represented "introduction of foreign matter" to the lake, and permitting for this is under the purview of the Army Corps of Engineers. Another delay.

Aside from concerns about "favoritism" to Hagadone, the acknowledged benefactor of the north Idaho economy with his resort and marina, there were ecological worries about siltation of the lake, damage to aquatic life, and the stirring up of old memories in the form of heavy metals.

The latter are in the lake as a result of mining in Idaho's Silver Valley over the past century.

There's irony here. When the mines began to lay off workers and close, the economy slumped. Hagadone got in a hole in the arm by building the resort, recently voted tops in the nation by readers of "Conde Nast Traveler."

Now the residue of mining days was a problem. Why the water depth was not accounted for at the outset is still unknown. Asked about this, a representative of Scott Miller Design, the Scottsdale, Ariz., course architect, refused to speak for the record. An executive of Hagadone Hospitality said the green was originally slated to be placed 400 yards from its final location, inferring that the water was deeper there. Others have disputed this.

On Jan. 21, the resort notified the Corps of Engineers that it was altering its plans to line the slopes with rock. On Jan. 24, because of design changes, the Corps advised the resort that the revisions in the dredging plan did not involve the Corps authority to enforce the Federal Clean Water Act.

Back in the hands of the state, the final plan was to dredge the bottom and lessen the angular severity of the underwater trench banks. The dredge material would be pumped to settling ponds onshore, where sediments would settle.

Water would be decanted out of the ponds and put into "infiltration beds" where analyses would be made of the water composition. If toxic materials were found in either the water or the silt, they would be removed as hazardous waste. If not, the material would remain and could, conceivably, be recycled.

Samples of the lake bottom found traces of heavy metals through what is called the E.P.A. Toxicity Method. Samples are placed in a container and overwashed with acid to leach out the metals. Then, a different test was utilized; TCLP, an acronym for Toxic Characteristic Leaching Potential, according to Will Pitman, director of the Idaho Department of Lands. This test, Pitman said, requires an 18-hour period of setting and designed to reflect how much matter would leach into the environment.

The results here were more positive, with lesser traces of heavy metals appearing.

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Archer conquers Fazio gem, the remodeled Bayou Club

LARGO, Fla. — George Archer may not have stolen the thunder from the pre-grand opening of the heralded Bayou Club, but the PGA Senior Tour star merited a full share of the glittering spotlight.

Archer's recent 18-hole exhibition round to showcase the championship course turned into a tour de force while highlighting course designer Tom Fazio's meticulously-groomed layout devoid of first-year rough spots. "Archer's 10-under-par 62 score will stand forever," exclaimed awestruck Brad Stevenson, assistant to head pro Tom West.

Stevenson noted that while Archer holed out from a sand trap on the fifth hole to aid his card cause, he didn't hole any long putts. "Iron shots covering the flag did the job," Stevenson said.

The course opened for members the next day. Though they settled for less spectacular results, all marveled at the course's splendid condition.

Davey Johnson adding golf to Celebrity Resorts in Fla.

WINTER PARK, Fla. — Davey Johnson, former New York Mets baseball manager, is now taking his executive swings in the golf field. Johnson founded Celebrity Resorts Inc., which has entered into a lease agreement to develop a three-hole golf facility as an additional recreation unit associated with its Celebrity Fish Camp now under construction near Ocala.

Johnson, president and chief executive officer, noted that the golf facility will add another dimension to the development now under way on Orange Lake, 11 miles north of Ocala.

The course, as well as 75 to 125 permanent housing units, will accommodate visiting athletes and guests.

**Coeur d'Alene**

*Continued from page 40*

Environmental Protection Agency in Seattle, in the former test a copper lid is placed over the material to be tested. This, he said, could produce its own share of metal residue to the mix, and possibly skew the results. He explained that EPA was going to use the TCLP method as its standard test.

With the granting of the dredging permit, work will begin immediately on the operation. Steve Wheeler, director of corporate communications for the resort, said he did not know how long it would take, but was still anticipating an opening day of April 1 at the golf course.

"It will be a 'soft' opening," he said, "with only guests of the resort and the Holiday Inn (also Hagadone-owned) allowed to play. It will open to the public on May 1. Greens fees will be $65 for resort guests and $100 for the public."

The fees, he said, include cart and range balls.

The entire course has been designed in such a way that no contaminants can enter the lake. Any matter, from water to pesticides, applied to the floating green are collected after percolation and pumped inland to holding tanks. Runoff water from the cart paths is likewise collected and pumped inland. At Fernan Creek, which parallels the 11th fairway, a large berm separates it from the playing area. The creek is a delicate fish spawning stream.

Pitman said that as the dredging progresses, work and materials will be closely monitored by his agency as well as the Division of Environmental Quality, a branch of the state Health Department.

Coeur d'Alene's floating 14th green may at last have found safe haven from the stormy seas it created.

Bob Spinah is a freelance writer based in Westport, Wash.
Briefs

HOAG NEW NGCOA PRESIDENT

CHARLESTON, S. C. — Jeff Hoag of Scott Lake Country Club in Comstock Park, Mich., is the new president of the National Golf Course Owners Association.

Class A professional Vince Alfonso, The Rail Golf Club, Springfield, Ill., was re-elected secretary-treasurer. Like Hoag, Lunt is an association charter member.

NGCOA is a trade association for owners and operators of profit-oriented, public-access golf courses. Members include resort, semi-private and daily-fee facilities.

For further information, contact the National Golf Course Owners Association, 19 Exchange St., P.O. Box 1801, Charleston, S.C., 29402; 803-577-5239.

NGF EXPECTED TO REPLACE RUPP

Glenna Rupp has been dismissed as president and chief executive officer of Wilson Sporting Goods Co.

His departure means a shaking up at the National Golf Foundation as well as at Wilson.

Rupp was recently named the chairman of the board at the NGF, which is headquartered in Jupiter, Fla.

NGF officials are now expected to replace him with Vice Chairman James J. Yash, general manager and corporate vice president of the Golf Division of Spalding Sports Worldwide.

Other officers would move up in position, with Secretary Wally Uhlhein, president of Titleist and FootJoy Worldwide becoming vice chairman, and Treasurer Peter Romani, publisher of Golf Magazine, taking over the secretary duties. A new treasurer would be named.

MANAGEMENT COMPANY SOUGHT

KING CITY, Calif. — The city of King's Department of Parks and Recreation is soliciting qualified professional individuals and businesses for the complete operation and management of the King City golf course.

King is located in the heart of the Salinas Valley in Monterey County.

The nine-hole par 70 course serves southern Monterey County and northern San Luis Obispo County. Its facilities include a pro shop, snack bar, driving range, putting green and maintenance area. A cart storage shed was built in 1987.

Water is provided by an on-site well. Three fenced tennis courts are located at the golf course.

Commencement of operations is scheduled July 1. Neil Smart is director of Parks and Recreation.

Course management company founded

HUDSON, Ohio — A new corporation has been founded to acquire and manage daily fee courses in selected areas of the United States.

Golf Courses of America, Inc. will buy existing daily-fee courses throughout high golf-populated areas.

Chief Executive Officer Brad Libin said, "The mission of Golf Courses of America is to acquire and operate quality facilities... With an emphasis on first-rate service and added value for players, we expect to capture the attention of golfers everywhere."

Libin, former chief executive officer of Golf Car International Corp., a Salt Lake City-based company that gives annual golf-equipment earnings to more than 90,000 members at 1,500 courses, has assembled a team of experts in golf course acquisition and operations, marketing and financial services.

The company is pursuing targeted facilities with a plan to acquire the initial golf course by the end of May.

The management team has been involved with the PGA of America, National Golf Foundation and Superintendents Association of America.

Staubach: Team building key to success

By Peter Blais

Team building is the key to success in the club or any other business, according to former Dallas Cowboy quarterback Roger Staubach.

"To be competitive you must have management and employees working together," said the keynote speaker during the opening business session at March's Club Managers Association of America Annual Conference in Dallas.

Without that attitude, a business will not be successful, regardless of its resources and talent, he said.

The two-time Super Bowl-winning quarterback said he learned the importance of team building during the 1971 football season. Despite having the most talent of any Cowboy team he played on, the 1971 squad stumbled to a 4-3 start and was in danger of not making the playoffs, Staubach said.

A normally tight-knit Staubach and Ditka was the first to resign during a team meeting following the seventh game. In no uncertain terms, Ditka told his fellow players they had all been playing as individuals, not as a team. That would stop immediately, he warned, or they would have to deal with him.

Ditka's teammates respected and feared their tight end. One by one they stood and repeated his words. A team was forged during that meeting, Staubach said. "The Cowboys went on to win 10 straight games, including Dallas' first Super Bowl."

"If 'this is in it for me' attitude simply doesn't work in service industries," said the president of Staubach Co., a 130-employee commercial real estate firm, "you need to encourage team builders. They are the top people in your organization. They are always ready to take advantage of an opportunity. Jeff Hostetler (the back-up quarterback who led the New York Giants to this year's Super Bowl) is a good example."

Have you recognized the team builders in your organization? Staubach said they are often not the most talented employees, rather those who get the most out of their ability.

Former Cowboy wide receiver Drew Pearson was a team builder, Staubach said. Passed over as a team leader by teams in the National Football League draft, Pearson signed as a free agent with the Cowboys. He went on to a spectacular career and was on the receiving end of the famous Hail Mary Pass against Minnesota that helped the Cowboys into the 1971 playoffs.

"He utilized his talents to the fullest of his capabilities," Staubach said. "And he persevered. You can't ever quit. Team players perform when times are tough. Adversity often reveals genius. Prosperity conceals it."

Continued on page 43

Jim Pearce takes over CMAA reins

Continued from page 1

to take it in its first Jewish member and installed an elevator to make the facility handicapped-accessible.

"That (admitting Jews) was a big thing during the 1960s," said the new president of the Club Managers Association of America, a self-proclaimed small-town boy and graduate of Cornell University where the word discrimination was rarely heard."It didn't realize people let or strongly about things like that."

From Binghamton he moved to the Rainier Club in Seattle in the late-1960s. When he first arrived, women had a separate entrance and were only allowed in certain parts of the club. One day a woman on crutches walked to the ladies' entrance and it was locked. She hobbled back around the corner and down a hill in the pouring rain to the men's entrance. The doorman wouldn't let her in.

"I really thought he was going to get hit with the crutch," remembered Pearce. "A few days later there was an emergency board meeting and they did away with the ladies' entrance."

Pearce managed the Little Rock (Ark.) Club in the mid-1970s when the board accepted its first black members. "This is the city where Eisenhower ordered in troops in the 1950s to desegregate the schools," Pearce said.

In the early 1980s he managed the Petroleum Club of Wichita — "one of the last bastions of male chauvinism," according to Pearce — when the board added its first female director.

Until three years ago women couldn't eat lunch in the main dining room of The Dallas Club. Pearce's present employer. The members changed the rule when they realized they couldn't close a business deal with a female client and then invite her to the club for lunch.

Just as in Binghamton, Seattle, Little Rock and Wichita, Pearce said: "That evolution came from within the club. It wasn't mandated, I firmly believed that was the right way to do it."

Increasing government intervention will be one of the major issues confronting club managers in the coming years, Pearce predicted.

"There will be more and more paperwork, recordkeeping for all the insurance problems, immigration and taxes," he said.

Then there is the change in the work force. With the growing number of international migrants to the United States, "the white male worker is becoming a minority in the work place," Pearce said.

Competition for workers is becoming intense, especially in the food service sector of the club business where hospitals, restaurants and other hospitality businesses depend on the same labor pool.Unless clubs strain them and offer incentives for them to stay, many workers will simply use clubs as a stepping stone on their way to other careers, the new CMAA president predicted.

"Chubs have an edge in atmosphere and the...
Gross operating margins of daily fee and resort facilities

<table>
<thead>
<tr>
<th>Facilities</th>
<th>Percent</th>
<th>0</th>
<th>10</th>
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<tr>
<td>Daily fee</td>
<td>23.25</td>
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<tr>
<td>Resort facilities</td>
<td>26.37</td>
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The graph at left shows gross operating margins at daily fee and resort courses are higher than the average for all facilities.

The graph at right shows gross operating margin for U.S. public courses in the West and North are higher than the national average while those in the Northeast and South are below the national standard.

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Johnson named president of AGC

SANTA MONICA, Calif. — Ron Johnson has been named president and chief executive officer of American Golf Corp. Johnson joined AGC in 1989 as executive vice president and chief operating officer.

Reorganization of the management team coincides with the company's plan to double over the next five years the number of golf courses professionally managed by AGC, which operates 130 courses.

Other changes were also announced.

Craig Price was named executive vice president. In addition to acquisitions, he will lead the new development division.

Five executives were made senior vice presidents. Kevin Roberts will be responsible for the West, Ken Jones the Midwest and Kimberly Knowles the East.

David Seidl will supervise private country club operations and Joe Guerra development projects and related real estate ventures.

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New CMAA chief sees many changes ahead for the private club industry

Continued from page 42

The general feeling they have for their long-term employees. They want them, they nurture them and have more of a personal feeling," Pearce said.

Another big change is alcohol service. "The name of the game used to be diamonds and boxes," Pearce said. "Now, lifestyles are different. You're more likely to have a Perrier than a martini in a social setting at a country club. There has been a tremendous drop in alcohol consumption in the past five years."

Pearce vowed he would never go into club work when he left college. After leaving the Air Force in 1954, he worked for the food division at Colgate University. A friend, who was looking forward to a career in club management, found a club position. The friend lasted just six months before going into food service at a major college. Pearce lasted a little longer in food service before getting into club work.

"I was too independent for chains at that point. I didn't want to look at page 9 of the manual and see you had to serve three-ounce hot dogs by the pool. I still think clubs are a great opportunity for people with creative ideas," Pearce said.

Apart from a brief stint with a design company and another with a hotel firm, Pearce has been in the club business the past 37 years. Two of those clubs had golf courses, Quincy (Ill.) Country Club and Racine (Wis.) Country Club.

Country clubs are increasingly adopting the general manager concept with the GM acting like the chief executive officer of a corporation. The GM's knowledge about golf course maintenance is usually limited, so he is dependent on the superintendent for expert information, Pearce said.

"I look at the role of a GM as a conduit to the board of directors. If the superintendent needs a particular piece of equipment, the general manager should present that in the budgeting process," Pearce said.

Pearce said he has grown close to GCSAA officers Dennis Lyon (president two years ago), Gerald Faubel (immediate past president) and Steve Cadenelli (current president) as they have moved through the ranks of their respective organizations.

There has been a "gradual improvement" in the relationship between the CMAA and allied organizations like the GCSAA, National Club Association and Professional Golfers Association, he added.

"It's good to see and I'm sure it will get better. We're all pushing for the same goal and that's to satisfy the member," Pearce said.

Pearce sees his primary duty as helping the association adapt to the many changes that have occurred over the past few years.

Those changes have included updating the computer system, a move to a new headquarters building, improved certification and educational programs, new services, additional staff and a new association magazine.

"My theme is progress with stability," Pearce said.

USGA initiates junior program for disadvantaged

FAR HILLS, N.J. — The United States Golf Association has initiated a junior golf program as a followup to a series of grants designed to help establish or develop programs for disadvantaged children in 36 cities.

Goals of the USGA Foundation's latest effort are to introduce a funding process to assist national and regional organizations in developing junior golf, forming an intern project to work with state and regional golf associations, and publishing a directory profiling more than 3,000 junior programs operated throughout the United States.

The first grant went to the National Youth Sports Coaches Association of West Palm Beach, Fla. That challenge matching grant will be used to expand the organization's Hook A Kid on Golf program.

The program was developed to introduce children, primarily in urban areas, to golf and quality sports programs. The NYSCA plans to establish programs in 25 regional sites this year.

Other organizations to receive grants are: Boy Scouts of America; Georgia State Golf Association; South Carolina Golf Association; Flint (Mich.) Junior Golf Association and the Golf Association of Michigan.

Western and Massachusetts golf associations; Metropolitan (New York) PGA Boys and Girls Clubs; Greater Dallas; and Colorado Junior Golf Association.

The USGA Foundation also will finance an intern program that will help state and regional golf associations develop and conduct such activities as junior golf projects.

The USGA has compiled data on 2,300 junior golf programs in the United States, and has published profiles of 1,100 programs in a 404-page directory.

Directories for individual states are available free of charge for non-commercial uses.

The national directory costs $35. It is available by writing to: USGA Foundation, P.O. Box 5000, Far Hills, N.J. 07931.
Walden president of Nat'l Golf Car Manufacturers' Assoc.

AUGUSTA, Ga. — Lt. Waiden, executive vice president of E-Z-GO Textron, was recently named president of the National Golf Car Manufacturers’ Association for 1991.

The election took place during the organization’s first-quarter business session held in conjunction with the Professional Golf Association’s Annual Merchandise Show in Orlando, Fla.

Walden, a native of Gibson, Ga., began his career with E-Z-GO in 1962, just eight years after the company’s founding by brothers Beverly and Bill Dolan in a small Augusta workshop. Over the years, Walden has played a major role in the company’s rapid growth from a small firm to one of the world’s largest utility vehicle manufacturers. E-Z-GO has more than 1,000 employees and 500,000 square feet of manufacturing space. The company produced 35,000 plus vehicles last year.

In 1981, Walden was appointed director of service and distribution for E-Z-GO and in 1985 vice president of customer service. Walden was made the vice president of sales and marketing in 1985 and subsequently served as executive vice president of the Georgia-based company.

Last November Walden was appointed acting general manager of the entire E-Z-GO Textron organization. In accepting the presidency of the National Golf Car Manufacturers’ Association, Walden pledged his loyalty and commitment to the best interests of the association and the industry at large.

"It’s indeed an honor to serve my outstanding associates and peers in this leadership role," he said.

"As I exercise my duties, you can count on me to do everything possible to live up to the confidence and trust that this fine group has bestowed upon me."

The new National Golf Car Manufacturers’ Association president can be contacted by writing E-Z-GO Division of Textron, Inc., P.O. Box 338, Marvin Griffin Rd., Augusta, Ga. 30913 or by telephoning 404-798-4311.

James appointed director of RISE

WASHINGTON, D.C. — Allen James has been appointed executive director of the Responsible Industry for a Sound Environment (RISE), a new organization formed to address issues affecting the $1.3 billion specialty pesticides industry.

A main function of RISE is to explain the benefits to society of the proper use of pesticides, including public health. Membership will be drawn primarily from the basic manufacturers, formulators and distributors of specialty pesticides, as well as associations, media, academia and equipment manufacturers.

A North Carolina native, James since 1987 had been president of International Sanitary Supply Association, Chicago, Ill. He also had been county executive director of the Agricultural Stabilization and Conservation Service (ASCS) of the U.S. Department of Agriculture.

The Oregon GC names head pro

WEST LINN, Ore. — Pat Fitzsimons, former PGA Tour professional, has been named the first head professional of The Oregon Golf Club, near Portland.

The private club, under construction by Golf Service Group of Houston, Texas, is scheduled for play July 4, 1992.

Fitzsimons, 40, a native of Salem, won the 1968 Oregon Open as a 17-year-old amateur and in 1980, while still an amateur, won the Northwest Open. He won the 1975 Los Angeles Open as a professional and the Pacific Northwest PGA championship three times.

Tour pro and Portland native Peter Jacobsen is director of golf for The Oregon GC and is co-architect with Ken Kavanaugh, Tucson, Ariz.

Johnson adds management arm

DALLAS — Johnson Golf Course Construction Co. has added a golf course management division.

Operations manager Kenneth L. Wynniger of Corpus Christi, Texas, brings 17 years of experience in the golf industry as consultant, manager and superintendent.

Wynniger holds a bachelor’s degree in ornamental horticulture with emphasis on turfgrasses. He is a graduate of the National Golf Foundation’s Management School.

JGCC has obtained a lease for the University of Mississippi’s B.O. Van Hook Golf Course in Hattiesburg, the first lease arrangement for the state of Mississippi’s university system.

Within the first three months of the lease, JGCC has started renovation of the golf course by adding several greens and sandtraps and rebuilding nine tees. Rebuilding will continue until the golf course has been completely renovated and a new nine constructed to give Van Hook GC a total of 27 holes.
The times just keep on changing in golf, reports Putney

Continued from page 20

education to interpret and explain the latest advisories and rulings on such complex issues as pesticides, pollution and water.

Roger L. Lowell, super at Weebahmet Golf Course in Keenebank, Maine, and Maine Golf Course Superintendents Association president, declares that public relations has become an absolute requirement.

The evolution of the golf course industry has placed the superintendent, he says, into an ever-increasing complex position, requiring added knowledge.

"There are many great educational programs available to expand understanding and prepare the superintendent for his or her very professional position," he said.

"Twenty or 30 years ago, the superintendent was responsible solely to the club for which he or she worked. Today, that responsibility extends beyond their club to include state and federal agencies as well as to the neighboring public and, for that matter, to the public in general. Today, superintendents have a tremendous responsibility. They have had to become environmentalists in every sense of the word. With educational emphasis by so many universities, the Golf Course Superintendents Association of America, the U.S. Golf Association and local chapters, the superintendent can become expert on environmental issues."

"Greenkeeping of the past was an art," he continues. "Now the superintendent has become a professional technician, business manager, civic official and a liaison between the golf course and the general public."

Brian M. Silva, golf course architect who works with Geoffrey S. Cornish of Amherst, Mass., believes that "a professional must be visible."

The well-traveled Silva notes that golf writers at larger newspapers nationwide welcome news from superintendents and are very cooperative. "Seldom is there outright rejection. This also goes for TV golf reporters glad to provide brief camera coverage and commentary."

The key is to initiate contact, Silva added.

That's a point worth exploring. Though I wrote to the bulk of golf material for three Portland papers dating from 1947 and in many cases initiated and developed several superintendents, I did not continue directly by the state organization until 1974.

Dave Huff of Bow, N.H., O.M. Scott's New England representative who has chaired superintendents' meetings, asked me to address the group on public relations. Thereafter, I attended sessions whenever possible. Their "shop talk" was hit deep for me, but I gleaned many column tidbits. They were not as taciturn or laconic as portrayed.

George S. Wemyss of Wakefield, Mass., recently retired New England Professional Golfers Association executive director, emphasized the positive results of joint meetings of New England pros and superintendents for the past four years.

"They see each other's problems more clearly, and speak almost as one voice when communicating with the press," he said.

These sessions have worked so well that the pros plan several meetings with club managers. Not too long ago, a movement elevating managers to much more authority in the clubs' scheme of operations gained some prominence.

There remains a couple such instances, but Wemyss thinks the separate structure of pro-supertendent-manager power will remain.

"Attempt at consolidation under manager control usually failed because there was lack of expertise in these specialized fields," he said.

As long as sports departments are ruled by whim, cuprice and space — particularly the latter which always is in short supply — there will be no magic formula for getting into print. The super, armed only with solid fact, doesn't rate the attention of demonstration or protest.

Still, the challenge is there. Creativity, inventiveness and enterprise might just work.

Club Group affiliate buys Persimmon

LOUISVILLE, Ky.—Persimmon Ridge Golf Club was recently acquired by an affiliate of The Club Group, Ltd. of Hilton Head, S.C. The acquisition included the golf course, clubhouse and a golf academy. In addition, The Club Group has an option to purchase land for an additional 18-hole course.

persimmon Ridge gained statewide stature soon after opening in June 1989. It has been ranked the toughest course in Kentucky by the publication Business First and the number two course in the state by Golf Week.

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Seniors charge discrimination

"Older people tend to have certain attributes that are very attractive to employers. They have earned loyalty, and believe in giving a fair day's work for a fair day's pay, and in being on time and on the job," Gamse said."

"But there's a problem here, because if you don't return that level of loyalty and commitment to these people, there is a federal law... that supports their right to hold you personally accountable, and your board and your golf course accountable for mismanagement."

When hiring, an employer must ask the dates of birth on the employment application, nor the date of high school or college graduation.

If you recruit older persons for part-time or seasonal work... be absolutely certain they have equal right to apply for promotion. If they do not have that right, that's illegal," Gamse said.

He also said, although courts do not require it, "find out — before the Equal Employment Opportunity Commission is at your door — whether you have age discriminatory practices at your workplace. Take a look at who applies for your jobs, who gets hired, trained, terminated. If it's not proportional, you need to begin asking questions about the persons who are making these decisions because you are responsible for those decisions."

Gamse also suggested that courses reducing their workforces not use "retirement incentive programs."

"Early-retirement offers are not illegal, but I think they will be in the future. We as a nation don't like any group to be singled out for any particular attribute, particularly age," he said.

Federal law defines an "older worker" as a person 40 or older, and this includes any less stringent state regulation.

"The American workplace is becoming more heterogeneous in respect to gender, race and ethnicity. Yet it is becoming homogeneous in respect to age. That means you potentially have fewer and fewer younger employees... but you have fewer and fewer older workers because they are retiring or being forced out of the workplace. So you have a growth in the number of middle-sagers who may be losing you once they reach what ever plateau they have in their own mind," Gamse said.

He said that in 1950 46 percent of eligible older persons were eligible for early retirement. That figure dropped to 16 percent of eligible men in 1987 "despite the fact they are healthier and better educated."

Gamse said although many older workers dream and retire and don't want to work full-time, "in many cases they are retiring because they have been treated unfairly, and more and more they are screaming 'foul.'"

But the fact that 1,000 more people join the 65-and-older age group each day could be good news for managers.

ROCKVILLE, Md. — CRI, Inc. a real-estate investment firm, has organized a new full-service golf affiliate — CRI Golf, Inc.

CRI Golf will buy, develop and manage public or private courses that are either existing or under construction with investment ranging from $5 million to $100 million.

CRI Chairman William B. Dockser said, "The business of golf has grown to play a central role in the investment services we are being asked to provide to clients around the world. Through CRI Golf, we will be able to more fully serve investors seeking to acquire golf properties."

Executive Vice President Richard L. Kadish said CRI Golf will seek to acquire courses and golf clubs in markets throughout the United States.

The company is buying golf complexes in Orlando and San Diego and is considering clubs in Phoenix, Las Vegas, Tampa, San Francisco, Chicago, Atlanta, and metropolitan Washington, D.C.

CRI golf could acquire properties in all-cash transactions or engage in sale/leasebacks. It will also oversee development and operate a facility with its own management team.

CRI's $4-billion domestic real estate portfolio includes the LaQuinta Hotel Golf & Tennis Resort in Palm Springs, Calif. In 1986, CRI began a hotel management and asset management company to better serve clients investing in hotels. The affiliate — Capitol Hotel Group — today manages four hotels and provides investors with asset management and advisory services for 24 hotel and resort properties in 11 states.

The choice is yours. You can let goosegrass turn your course into so many acres of rough, or you can enhance your reputation with the best goosegrass control money can buy. You see, years of testing prove that CHIPCO® RONSTAR® G provides more effective control of goosegrass than any other herbicide around. Plus, just one application delivers season-long protection against 24 other tough broadleaf and grassy weeds. You'll also appreciate the fact that CHIPCO® RONSTAR® G herbicide is non-toxic to Ohnorsman plants. With so much at stake, is there really any other choice?"
CMAA exhibitors generally optimistic about golf's future

By Peter Blais

General optimism regarding the private club industry's economic future describes the mood of exhibitors at March's Club Managers Association of America Conference and Exhibition in Dallas.

Many suppliers said business was continuing to grow at a record clip, despite the recession gripping much of the country. Others said business was at least as good as in the past. A few, while happy with the present, expressed doubts about the future. "The recession hasn't affected us at all," said Dan Steinbeck, president of Spirit Tastings Inc. which conducts formal tastings for members of private clubs. "We've been doing this for eight years and we're as busy as we want to be."

"It's very important for us to be at this show. Most of our business is with private clubs. This is the best way for us to meet managers from across the country and let them know what we do."

A pair of golf car manufacturers were similarly upbeat.

"Our business is running 20 to 25 percent ahead of last year," said Ben Sherwood, director of sales and marketing with Columbia ParCar. "The golf course business seems to be reasonably recession-proof."

Aldeed Club Car National Sales Manager Larry Lundenberg: "Interest has been excellent. We haven't noticed the recession affecting our business anywhere in the country. This has been our best year ever."

Computer software companies are being attracted to the private club market in record numbers as the industry moves into the high-tech arena.

"I'm surprised at the number of computer homes here," said Larry O'Connor, a partner with Fastech Software. "There were five listed here last year. There must be at least 20 (or actually this time)."

"The recession has actually helped our business. With the market squeezed, clubs want to know where their money is going."

Continued on page 49

Lebanon Turf promotes four product managers

LEBANON, Pa. — Paul Mengle, manager of marketing and sales for Lebanon Turf Products, a division of Lebanon Chemical Corp., announced the promotion of four product group managers.

"These four men bring nearly 50 years of combined product experience to our management team," Mengle said in announcing the promotions of Paul Grosh, Harry Mathis, Ed Price and Randy Rogers as product group managers.

Grosh and Rogers will concentrate on the Country Club brand of products for professional and golf course use.

Mathis will be responsible for marketing the Greenskeeper and Lebanon Pro line of products to the lawn care and landscaping trade.

Price will coordinate development of the Green Gold, Turf Master, WonderGro and private label lines for the retail/consumer over-the-counter market.

Grosh joined Lebanon in October 1987 as a sales representative. He most recently served as sales manager for Lebanon's Middle Atlantic and Southeast Sales Division. Grosh holds a bachelor's degree in botany from Ohio Wesleyan University.

Mathis joined the turf products division in July 1981 as a territory sales representative. He became manager of the Northeast Division in November 1983. Mathis earned a degree in business administration and environmental studies from Ramapo College of New Jersey.

Price started with the company in 1976, serving as a sales coordinator. He was promoted to manager of the Middle and South Atlantic Division in 1981 and to manager of private label national accounts in 1988. Price has an associate's degree from Brandywine College.

Rogers joined Lebanon in 1978, serving as a territory sales manager in its mid-West Division. He was promoted to manager of the Western Division in 1981. Rogers earned a degree in turfgrass and business management from Michigan State University.

Gardner named executive VP of sales for LESCO

CLEVELAND, Ohio — Philip R. Gardner, has been named executive vice president of sales for LESCO, Inc.

The company markets primarily through golf course sales representatives, who operate tractor trailer "stores-on-wheels," service centers in 16 states, plus lawn care, equipment and fertilizer specialists, and telemarketing representatives, LESCO will expand its efforts in each of these areas this year under Gardner's leadership.

Gardner said the firm will increase the number of golf course sales territories and expand its telemarketing operations.

"We have a new distribution center in Charlotte, N.C., that will improve our service in the mid-Southeast, and our equipment manufacturing and fertilizer blending facilities are operating at very high levels of efficiency and quality," the new vice president said.

Gardner joined LESCO in 1975 as a golf course sales representative. He also served as a regional sales manager, fertilizer and plant warehouse manager, and, most recently, vice president of the lawn service division.

He is a member of the Ohio Turfgrass Association, Florida Turfgrass Association, and Professional Lawn Care Association of America.
Seed Research honors Parrish

Seed Research of Oregon, Inc., has presented its annual International and a Domestic Marketing awards. The Domestic Award was presented to John Parrish of Turf and Garden in Chesapeake, Va., a division of Todd Farm Equipment, Inc. Kenko Commerce & Co., Ltd. in Tokyo, Japan, won the Excellence in International Marketing award.

Exhibitors

Continued from page 48

week by week rather than month by month. Computers help them do that. We’ve had record sales the past five months.”

As in any recession, upscale markets seem to better weather economic downturns. “We’ve gotten 20 bona fide leads here. That’s very good. A single order could run $30,000 to $40,000—which would more than cover our costs in coming years,” said Eric Lake, national account sales manager with Royal Doulton, manufacturers of high-end and customized tableware.

Some suppliers were more guarded about the show and the economic future. “We’re doing pretty well,” said Bill Hartnett, regional representative with United, manufacturers of treadmills and other exercise equipment. “We have kind of mixed emotions about the show. Many clubs want to put in a fitness component, and treadmills are hot items. A lot of people tell me they aren’t doing anything immediately, but they’re thinking about it. They want to check with their members first.”

Paul Simmons, national account sales manager with Amherst Bag Co., said interest at the show was better than expected. “Our business has been pretty good,” he added. “There’s been a lot of interest in O’Deals (a no-soakable beer). We’ve done the show for five years. There seem to be more exhibitors and better attendance this year. The country club scene seems pretty optimistic.”

While the number of exhibitors was up from the Orlando (Fla.) show a year ago, the number of conference attendees was off slightly, according to conference organizer G. Mead, Gray.

“There seemed to be more interest a year ago at Orlando,” said John E. Sirny of Sirny Architects, a Turf Equipment architect firm located in Minneapolis. “Some areas have fallen off but they’ve generally been replaced by others. People have things they want to implement, but in a lot of cases it’s one or two years from now.”

While expecting a good 1991, Turfform Lockers President Bill Richardson was also somewhat pessimistic about the future. “The inertia of the past few years will carry us through this year,” he said. “Next year we’ll probably see some pressure because of the lack of new construction. Remodelings will probably slow down, too. I expect my industry to slow down some.”

Hahn Ultimate Precision Through Innovation

COLORADO SPRINGS, Colo. — Hunter Industries’ Top 20 Distributors for 1990 were presented at a recent national sales conference here.

Hunter-Director of Sales Chuck Huston introduced each of the 20 honorees during a general meeting that attracted more than 300 participants.

Awards that recognized the distributors’ outstanding sales and marketing achievements were presented by partner Richard Hunter.

Among the award winners were Dick Wheelock of Sprinkler World of Arizona in Phoenix and the California firms of William Hayes Sr. of Automatic Rain Co. in Menlo Park. Mark Davidson of Coast Irrigation Supply in Westlake Village; Jim Head Sr. of Coast Turf & Utility Supply in Anaheim; Archie Humphries of Hydro-Scape Products in San Diego.

Campbell Wilson of Normac Inc. in North Highlands and Ray York of Ewing Irrigation Products in San Leandro.

Others were Dick Griebe of Western Pipe and Supply in Boulder, Colo.; Larry Oliva of Atlantic Irrigation Specialties in Holly Hill, Fla.

Fred Tanner of Florida Irrigation Supply in Orlando; Ernie Hodas of Century Rain Aid in Madison Heights, Mich.; Tim O’Connor of P&H Warehouse in Plymouth, Minn.

Also, Bill Koonz Sr. of Koonz Irrigation Supply in Springfield, N.J.; Vinny Keaveny and Joe Santacroce of East Coast Sprinkler Supply in Baldwin, N.Y.

Taylor Ramsey and Cliff Thorne of United Pipe and Supply Co. in Eugene, Ore.; David Trammel of Baron Supply Co. in Anthony, Texas.

Jim Wickham of Wickham Supply Inc. in Carrollton, Texas; Craig Berlin of EZ Waterworks in Stafford, Texas.

Paul Woodman, Tom Gllnes and Jim Winterbourne of Evergreen Pacific Supply Inc. in Bellevue, Wash.; and Mike Rippey and Dick Hacker of United Pipe & Supply Co. in Spokane, Wash.

Hahn manufactures turf products for the golf industry.
Asia's first international golf show slated for April 11-14

SINGAPORE, China—Golf Asia '91, billed as the first international golf show in that region, will be held April 11-14 at the World Trade Centre here. More than 200 exhibitors from golf merchandise manufacturers to course equipment, architects, resorts, golf accessories and apparel industries have confirmed participation. Special events will include: Asia-Pacific Golf Summit Conference, Asian Clubs Golf Classic Competition, and Queen of Golf Asia Pageant.

Golf Asia will offer a number of demonstrations and a golf shop. An estimated $10 billion to $15 billion will be invested in new golf course construction in the Asia-Pacific region over the next 10 years. The effect on fluctuations in the economy and on leisure industries in general will be explored, as will the forces impacting the golf industry growth in the 1990s.

There will be a hard look at how environmental issues are affecting both the development of new courses and the future of existing courses. Other topics will include an examination of key issues impacting golf course development in the Asia-Pacific region during the 1990s and beyond along with new golf course construction and how quickly and effectively it can be simulated, particularly in the leisure sector.

Structures of golf club management organization, membership programs and administration, and catering for the increase in players on existing courses will be explored, as well as a superintendent's perspective on golf course management, including club organization, employee motivation, budgeting and planning.

The latest developments in turf maintenance and modern developments in irrigation will be examined. Speakers will include pro golfer Larry Nelson, former PGA Champion and U.S. Open winner; Shelley Futch, teaching editor for Golf Magazine USA; golf course architects Robin Nelson, Perry Dye and Neil Noble; and Tim Bowyer, Ph. D, president of Southern Turf Nurseries, Inc.

We just eliminated your last excuse for buying a converted golf cart.

Introducing the Cushman® GT-1. Suggested retail price: $3,648.00*.

When you can have Cushman quality at a competitive price, there's no reason to accept second best.

The new Cushman GT-1 utility vehicle will outperform and outlast any converted golf cart on the market. Its frame and chassis are stronger and more durable. You'll find a bed made of 14-gauge steel instead of 16-gauge steel. One-inch axles instead of 3/4-inch axles. And a proven Kohler industrial engine that's more reliable and easier to maintain.

When you need a utility vehicle that's been specifically designed for work instead of one that's been converted from play, contact your Cushman dealer for a GT-1 demonstration. Or call toll-free 1-800-225-4444 for more information today.

 PATENT
Continued from page 1

Aeration Industries filed a patent infringement lawsuit in November 1989 against Aeromix Systems, Inc., a Minneapolis company started by former employee Peter Gross. Aeromix immediately filed several counterclaims claiming the patent was invalid and that Aeration violated antitrust and false advertising laws.

The judge dismissed all suits brought by Aeration Industries against Aeromix. The ruling allows Aeromix to petition the court to recover hundreds of thousands of dollars in legal fees, Gross said. It also opens the door for Aeration to press its other suits against Aeration Industries. The suits could seek millions of dollars in damages, he said.

Aeromix customers include Airlake Aerators of Lakeville, Minn. Airlake markets solely to golf courses and competes with Toro.

"Obviously we're quite pleased," said Airlake President Stephen Brown, who claimed Aeration's lawsuit and threatened legal action against purchasers of Airlake equipment cost him hundreds of thousands of dollars.

"This takes the focus off the side issues and puts it on the equipment, where it should have been all along," added Brown, like Gross a former Aeration employee. "Now customers can just concentrate on what the products are capable of doing and who has the best price."

Durda said the ruling has had no impact on Aeration's business or its relationship with Toro.

A spokesperson for Toro's legal department refused comment. "I've requested Toro remove references to their patented Flow Linkage system from their literature," Brown said. "We certainly aren't accusing Toro of anything."

The Aire-O2 is a surface-mounted aerator that injects air under the water's surface, creating a horizontal circulation throughout the pond that helps control algae growth and offensive odors.

Wastewater treatment and aquaculture firms are the major buyers of horizontal aerators. The golf market is a growing segment, however, said Brown.
Deere booklet promotes grass mower safety

As part of a continuing effort to inform grass mower operators how to mow safely, John Deere has produced a colorful, eight-page booklet that provides helpful tips on mowing safety. The booklet provides information on walk-behind and riding mowers, string trimmers and tractors.

Think you don't need a mowing safety refresher? Think again. Here's another. What do you do if you suspect a pinhole leak in a hydraulic hose? Deere recommends you use a piece of cardboard to detect the leak, not your hand. Other helpful tips include these:

- Perform maintenance checks daily or as recommended.
- Start the engine from the operator's station. Never start the engine while standing on the ground.
- Keep the engine free of debris or excess grease to prevent fires.

To get a free copy, write "Mowing Safety", John Deere, 1400 13th St., East Moline Ill. 61244.

New book details container systems

Fred Haskett, president of Greenworld Landscape Management and Frederic R. Haskett, Inc., of Dover, Ohio, have written a guidebook entitled "How To Build Your Own Integrated Pesticide Storage Containment Recycling System."

In 1985-86 Haskett designed, developed and installed a comprehensive integrated system for safe storage, efficient mixing and handling, spill containment and residue recycling that has proven to be both practical and affordable.

In four years of operation, it has increased employee safety; reduced insurance rate growth; eliminated or significantly reduced the high cost and liability of both the storage and disposal of waste residues; and has proven to be easy and affordable to maintain.

This system was examined and approved for use by the Ohio Environmental Protection Agency, Ohio Department of Agriculture and local water, wastewater, and health departments.

The system is flexible and easily used in new construction or retrofitted into an existing structure. It can be readily customized to suit virtually any operation's varied needs and economic priorities, no matter how large or small.

The guidebook can be purchased from Frederic R. Haskett at P.O. Box 336, Dover, Ohio44622;216-364-5235.

Booklet explains bridge buying

Continental Bridge has introduced a 32-page guide entitled "How To Buy A Bridge". It explains the options in design and materials to help you select the right bridge for your project.

Sections discuss commonly used bridge terms, what kinds of projects prefabricated bridges are best suited for, getting started and determining your bridge location. An architects design form is located in the back of the book, and lists typical construction costs. Contact Continental Manufacturing Inc., Route 5, Box 178, Alexandria Minn. 56308-9014 or call 612-852-7500.

Golf development firms profiled in NGF directories

Four specialized directories offering profiles of firms involved in golf course development are now available from the National Golf Foundation. The directories, averaging 70 pages in length, feature profiles of 200 firms offering services and products in four distinct areas of golf course development: architects, clubhouse architects, contractors and builders, and turf product manufacturers and distributors.

The listings provide information on each firm, including address, phone and fax numbers, key personnel, representative projects or products, membership affiliations, and business philosophy. All information will be updated on a quarterly basis.

"We handle hundreds of calls each month requesting information on the specialized services offered by our member companies," said South Smith, vice president of membership services. "This is a product we've created to better serve not only our members, but the interested public as well."

For more information contact NGF's Membership Services Department at 800-733-6006.
Cushman trailer hauls large cargo

Cushman has introduced a new hydraulically operated dump trailer that can haul up to 20 cubic feet of cargo towed behind a Turf Truckster. Because of the 5th-wheel configuration, the new Turf Truckster Dump Trailer has excellent maneuverability for golf course and other grounds maintenance applications. The Turf Truckster must be equipped with the special quick-attach 5th-wheel hitch and the live hydraulics package available from Cushman. The Dump Trailer attaches to the Turf Truckster with a 2-inch ball hitch. Even with a trailer box capacity of up to 2,500 pounds, the ground pressure is kept to a low 12 psi for the loaded trailer and slightly less for the ground pressure of the trailer box. The trailer box is equipped with 24-by-13-inch turf tires on 12-inch rims. Hydraulic dumping of the trailer is controlled from the Turf Truckster seat. Dumping height is 16 inches.

Contact Cushman, P.O. Box 8240, Lincoln Neb. 68501; 800-228-4444. CIRCLE NO. 316.

Scott introduces turf enhancer

New TGR Turf Enhancer 50 WP from O.M. Scott & Sons increases the playability of golf courses from six to eight weeks.

An expansion of the ProTurf turf growth regulator product line, TGR 50WP produces a dense, tightly knit turf stand that improves turf quality and consistency. When used in conjunction with nitrogen fertilizer, it can extend turf greening for as long as 12 weeks, especially on perennial ryegrass.

Additional benefits include time, labor and as much as a 50 percent reduction in clippings. The new ProTurf product also reduces water use which increases wilt resistance and provides greater flex-ibility in scheduling irrigation.

Spray-applied TGR Turf Enhancer 50WP is a wettable powder offered in water-soluble packets. It was developed for hybrid bermudagrass, bentgrass and perennial ryegrass fairways, tees and roughs. St. Augustinegrass and Kentucky bluegrass/perennial ryegrass turf areas and bentgrass and overseeded bermudagrass greens.

Contact O.M. Scott & Sons Co., 1413 Scottslawn Rd., Marysville, Ohio 43041 or call 800-543-0006. CIRCLE NO. 203.

Ford adds flail mower to its line

The new Ford model 918L flail-type mower from Ford New Holland speeds and simplifies large-area mowing. Rough grass and weeds are mowed evenly for a smooth, finished cut. Clip-pons and leaves are shredded and distributed without need for clipping removal.

The 918L is available in 50- and 60-inch cutting widths for use with tractors up to 30 horsepower. The 5-point hitch unit is offset, allowing close trimming around trees and along walls. Rotors are electronically balanced for vibration-free operation. Free-swinging cutting flails attach by one bolt and swing back to pass obstructions.


Blazon concentrate now available

Milliken Chemical, manufacturer of Blazon® Spray Pattern Indicator, has developed a concentrated Blazon® product in premeasured, easy-to-handle packets.

These packets are now available from authorized Blazon® distributors. The original Blazon® product features of non-staining, no heavy metals, pesticide compatibility, and non-toxicity are retained in this concentrate. Each packet will color 50 gallons of spray solution. For smaller-volume spray solutions, a portion of the packet can be used, and the remainder stored for later use. The packets are easily disposed of after use.

For more information contact Milliken Chemical Division, Milliken & Co., P.O. Box 817, Inman S.C. 29349 or call 803-472-9041. CIRCLE NO. 326.

New tee towels save course money

Standard Golf has added two new tee towel choices to its line of golf course accessory products.

The first is the CHIX® Tee Towel. Available in green or tan colors, its strong and durable fabric provides a perfect scrubbing surface and is extremely absorbent. Also available is the Economy Tee Towel. It doesn’t last as long as the others, but its price is right, officials say.

Contact Standard Golf, P.O. Box 68, Cedar Falls Iowa 50613 or call 319-296-3538. CIRCLE NO. 311.
New driving ranges yield big operator savings

Creative Athletic Products and Services (CAPS) is introducing a line of automated Pro-Model golf driving ranges designed to save space, time, and manpower while increasing profits.

In order to take full advantage of space, CAPS is introducing the Pro-Model 4x20A — an automated four-station driving range. Designed with four separate driving stations, the Pro-Model 4x20A uses a steel tubing frame with heavy-duty golf mesh netting to create an attractively shaped, functional and safe unit for teaching or for warming up.

Complete with an automatic vacuum ball return system that is designed to return all balls to the house or pro shop, the Pro-Model 4x20A is 52 by 30 by 12 feet and features a stretch fabric floor and frame, artificial turf covering and partial framework for driving platforms. A coin-operated version of the Pro-Model 4x20A is also available.

The Pro-Model 80A is designed to satisfy golfers wanting to hit long shots. It is an automated unit measuring 60 by 60 by 40 by 14 feet and features a stretch fabric floor and frame, vacuum ball return system, artificial turf covering and plans and specifications for a wooden driving platform. A coin-operated version of the CAPS Pro-Model 80A may also be purchased.

Contact Creative Athletic Products and Services, 3829 71st St, Suite E, Des Moines, Iowa 50322 or telephone 800-227-4574.

CIRCLE NO. 350.

Portable eye care station offered

Bradley Corp.'s new Kleersight emergency eyewash station, made from transparent B.F. Goodrich Geon vinyl, incorporates many design improvements in portable eye unit protection.

Kleersight is designed for locations where water supply hook-ups are not available. B.F. Goodrich Geon vinyl is five times stronger than polyethylene or polypropylene and provides greater chemical resistance and flame retardance. Transparent Geon vinyl allows for easy visual inspection of fluid level and content quality.

Two large hinged doors on top of the unit allow easier filling and cleaning. Because covers are attached to the tank, cover contamination during filling is reduced.

The portable eyewash also includes a wheel assembly and molded recessed handles for easy movement when the unit is full.

Kleersight contains a plastic ball valve assembly instead of a water feed hose that could be damaged or deteriorate over time. When the eyewash tray is pulled down, a constant water flow is immediately delivered to the patient through the ball valve assembly between the tank bottom and eyewash nozzle assembly.

Contact Bradley Corp., 4101 Founta in Blvd., Menomonee Falls, Wis. 53051 or call 414-251-6000.

CIRCLE NO. 306.

Greens prep from Ringer marketed

Ringer Corp. has formulated new Greens Prep 5-10-3 specifically for use on newly seeded or sodded areas.

Its analysis is 5-10-3 to prevent burning of sensitive turfgrass areas during or immediately following germination. The higher proportion of phosphorus to nitrogen encourages the growth of all types of young turf.

Application rate makes Greens Prep suitable for golf green overseeding operations as well as general turf.

Greens Prep 5-10-3 is formulated exclusively from natural ingredients, including hydrolized poultry feather meal, soybean meal, wheat germ and sunflower seed hull ash.

In trials performed last season at the University of Florida, Greens Prep performed well against both synthetic and inorganic fertilizers.

Contact Ringer Corp., 9699 Valley View Rd., Minneapolis, Minn. 55344 or call 612/841-4180.

CIRCLE NO. 304.

Finn introduces hydro stolonization

Finn Corp. has introduced hydro stolonization capability to its hydroseeder line, a substantial advance in turfgrass establishment, according to company officials.

Hydro stolonization combines live stolons or sprigs with water, mulch or fertilizer and then applies the mixture to the site with a hose or tower gun.

The process offers several advantages over traditional mechanical methods including improved performance, better coverage and savings in both time and cost.

The technique is particularly effective at moving very fibrous, almost unpumpable material without clogging.

Damage to tender stolons is minimized. The Finn unit can pump the stolon/mulch solution more than 1,000 feet.

Hydro stolonization is becoming increasingly important for bermuda, zoysia and other warm-season grass establishment.

Contact Don Sharp or John Heckin at 800-543-1166.

CIRCLE NO. 302.

PORTABLE EYE WASH STATION

We've developed some strong attachments for the Cushman Turf- Truckster.

And so will you.

No wonder golf course superintendents have grown attached to their Cushman Turf-Truckster. Nothing even comes close to fulfilling as many functions with such beautiful results. It's state-of-the-art turf maintenance machinery in a class by itself.

A superior system.

More than a dozen attachments and implements can be interchanged with a minimum amount of sweat, saving a Cushman Turf-Truckster into an entire fleet of turf maintenance vehicles. You can spray, aerate fence-to-fence, pick up cores, haul, dump, fertilize, spread, seed and top dress. And you can do them all with greater precision because of our unique ground speed governor control.

With the addition of our exclusive 540 PTO option with heavy-duty hitch, you can also turn your Turf-Truckster into a rotary cutter, flail cutter, shredder, grinder, sweeper/collector, roller, or fine-cut reel mower.

Dollar for dollar, function for function, nothing is as versatile or economical over more years of heavy use.

Now with 3 engine options.

In addition to the time-tested Cushman 222 air-cooled engine, the Turf-Truckster is also available in liquid-cooled gas and diesel engines. The Cushman 327 gas and Kubota 950 diesel models now provide a range of options to fill all of your specific needs.

The Cushman Turf-Truckster is simply your best turf maintenance vehicle investment. Ask a superintendent who owns one. Better yet, call the Cushman dealer nearest you for a free demonstration, or call toll free 1-800-228-4444 for more information today.

RANSOMES

GOLF COURSE NEWS
Mower mulches grass clippings

New Tricycler™ commercial lawnmowers from John Deere recycle grass by mulching. Tricycler™ provides a mulching kit, a side-discharge chute, and a rear-mounted material collection system to help commercial operators adapt their mowers to the seasons or the type of mowing needed.

Tricycler™ can be equipped with a plug and a mulching blade. The plug closes off the mowing chamber smoothly, so there’s no shelf when clippings can build up and fall out in a clump.

By sealing the circumference of the mowing chamber, the plug causes the grass clippings to remain inside the mower deck long enough to be chopped into tiny pieces.

The mulching blade is designed with reverse baffles that blow the bits of grass into the lawn where they disappear from sight. Because the grass clippings are tiny, they deteriorate quickly without adding to thatch buildup.

In summer, grass grows more slowly, so it’s easier to follow the One-Third Rule. That’s the time to remove the plug to attach a side-discharge chute to work with the mulching blade.

The chute channels clippings, from the rear of the mower in order to blow the clippings out from the side and into the lawn.

Tricycler™ can be equipped with a rear-mounted material collection system.

The mowers are available in two models - a push mower with 5 hp, 2-cycle engine, or self-propelled mower powered by a 5 hp, 4-cycle overhead valve engine that features full-pressure lubrication.

Contact Deere & Co., John Deere Road, Moline IL 61265; 309-765-4459.

CIRCLE NO. 319

Drought-resistant grasses released

Pennington Seed will soon release two new turf-type grasses requiring no watering or irrigation once the grasses are established. The new grasses were developed to produce minimal clippings.

These two new Pennington turf grasses will meet all requirements of city, county, state or federal regulations pertaining to water use or other water restrictions.

They will require no watering, replacing the need for the xeriscaping techniques now being promoted to reduce grass areas.

One of the new releases is a turf type tall fescue/dwarf fescue blend developed especially for areas that have 15 to 45 inches of annual rainfall.

This new product, called Enviro, was developed from tall fescue parentage. The new turf type has improved color, better disease resistance, lower growth characteristics and greater drought tolerance.

Enviro produces fewer clippings. Rainfall during spring, fall and winter playing time is sufficient for establishment. Enviro will be available this fall.

The other variety is a warm-season, cold-tolerant bermudagrass. Cheyenne is a dark green grass that can be planted from seed to form a sod in six weeks. It will be available this spring and may be planted when all danger of frost is past.

Cheyenne requires no watering once it is established, which takes about six weeks. Normal rainfall would be sufficient to bring the grass up.

Once Cheyenne and Enviro are planted and emerge to form a sod, they can go into dormancy during extreme drought. They remain in this mode until the rains return and begin a new growth cycle.

For more information on Enviro, Cheyenne or any other of Pennington’s many turfgrass products please contact Pennington Seed, P.O. Box 290, Madison, Ga. 30650.

CIRCLE NO. 305

New mulch agent protects all trees

ArborGuard Industries has introduced Perma-Mulch, a 10-year alternative to organic mulches used to protect and beautify trees of all kinds.

Perma-Mulch is a one-inch thick, porous, circular mat with a center hole for a tree trunk and slit to allow the mat to be easily slipped around the trunk.

Mats are offered in various sizes to accommodate trees from under one to over eight inches in diameter. They are given a texture and non-fading color to match any bark mulch.

When installed around a tree’s base, it appears to be organic mulch. (That is until grass clippings get on the mat and the owner simply picks up the mat, shakes it off and replaces it.)

No weeding, mulching, edging, spraying or coloring is needed. No fungus grows on the mulch. No disease, insects or weed seeds are brought in with the mulch.

Water readily flows through and the mat quickly dries out. Under dry conditions, the mat reduces evaporation by interrupting capillary flow from below. The mat is 50 percent air by volume. Chemicals won’t stain it and granular fertilizers will sit on top until dissolved.

Contact Arbor Guard Industries, P.O. Box 101, Union, Ky. 41091-0101 or call 606-384-2726.
New engine increases power and efficiency

E-Z-GOTextron has announced what the company calls a major new breakthrough in its specialty products line for 1991 — a 4-cylinder/streetcar overhead cam gasoline power plant featuring engineering precision and performance efficiency. The new engine is mounted in a durable, steel chassis and linked to an automatic, continuously variable transmission for "no shift" driving convenience.

Features of the engine include a self-contained lockable cash box for extra security, a detachable refuse container, separate food and beverage compartments, and overnight storage capability that saves the trouble of off-loading inventory at the end of the day.

Contact E-Z-GO Division of Textron, Inc., P.O. Box 388, Marvin Griffin Road, Augusta Ga. 30913-2699 or telephone 404-798-4311.

CIRCLE NO. 224

Vermeer unveils hydrostatic unit

Vermeer Manufacturing Co. has unveiled the new Flex-Trak 75. It is totally hydrostatic from the ground drive to a complete assortment of modular-design job attachments, including backhoe-blade, reel carrier, trencher, vibratory plow and trencher-plow combination.

The low-profile, high-dilation tractor unit measures less than 69 inches in width and features a reinforced undercarriage that offers nearly a foot of ground clearance to the front axle. Ground pressure (tractor only) measures 2.6 psi.

The automotive-type steering system features dual ground drive pumps which enable the operator to counter-rotate the Flex-Trak through a full range of infinitely variable speeds on each track.

"Basically, with the Vermeer Flex-Trak 75, you're looking at a 365-day-a-year piece of equipment", said Dean Whitten, Vermeer product manager for the unit. "It's designed to operate in conditions that usually bog down conventional rubber tired machines. Plus, it has infinitely variable drive and controls which allow you to travel on soft finished landscape without destroying the surface."

Contact Vermeer Manufacturing, P.O. Box 299 Pella, Iowa 50219 or call 515-628-3141.

CIRCLE NO. 309

New pesticide lowers dust levels

Rhone-Poulenc Ag Co. has introduced a granular formulation of Chipco® Mocap® brand ethoprop 10G pesticide that reduces dust levels.

The formulation is based on a new concept in granular carriers, a de-inked recycled paper by-product called Biodoce.

Field testing has shown the same level of effective soil insect control as the older formulation.

Chipco® Mocap® 10G pesticide is registered to control white grubs, mole crickets, chinch bugs, black turfgrass athenius beetles, bluegrass billbugs, sod webworms and nematodes.

Contact Rhone-Poulenc Ag Co., P.O. Box 12014, Research Triangle Park, NC 27709 or call 800-334-9745.

CIRCLE NO. 313

Pump station boosts pressure

Sports Turf Booster Boxes, a new compact centrifugal booster or suction lift pump station, is now available from Watertronics.

Designed for boosting pressure on golf courses, standard features include high efficiency pump and motor; external audible disconnect for interior pump controls; pressure gauge and switch; flow switch; check and drain valves. Everything is mounted in a weather-resistant steel enclosure with a hinged and lockable access cover.

Call Watertronics at 800-356-6686.

CIRCLE NO. 307
Jacobsen unveils largest number of new products

Jacobsen Textron has unveiled its largest number of new turf products ever including its first zero-turning radius mower and an intermediate-sized rotary triplex mower.

Jacobsen has also introduced four new utility vehicles, two new aeration models, and two improved walk-behind greens mowers.

The new ST5111, a five-reel mower with an 11-foot cut, has four-wheel drive, a 51-hp diesel engine, and a variety of attachments for year-round use.

Contact Jacobsen, 1721 Packard Ave., Racine, Wis. 53403-2561 or call 414-635-1251.

CIRCLE NO. 321

New above-ground storage tank approved for gasoline

The HR111 rotary mower has an all-hydraulic deck drive that eliminates belts on all three decks. It has a 51-hp diesel, four-wheel drive and 11-foot cut.

A third mower, the Z288D ZTR, has an 89-inch cutting width. It is exceptionally maneuverable, with floating wing decks to help prevent scalping.

The utility trucks include the 3/4-ton capacity Model 2315 diesel and Model 2515 gas utility trucks. All have rugged, steel bodied, strong tubular steel frames and reliable power.

The Airo King PT2448 tractor-mounted aerator has a 48-inch aeration path, five coring patterns and productivity over 62,000 square feet per hour.

The Airo King T1224 aerator’s coring action is virtually straight up and down on the soil. It makes a fixed position.

CIRCLE NO. 322

Hunter introduces reclaimed water ID caps

To support water reclamation efforts, Hunter Industries has developed distinctive purple-capped reclaimed water sprinklers for use where reclaimed water is available.

The purple identifier sprinkler caps alert field personnel that the reclaimed water is for irrigation purposes only and not for human consumption.

A “Do Not Drink” warning and symbol are printed on the cap along with the Spanish phrase “No Tome.” The purple color conforms with an emerging industry standard that identifies components of reclaimed water systems.

Aside from the purple caps, Hunter’s reclaimed water sprinklers are identical to the company’s popular gear-driven rotors and fixed-spray heads.

For more information contact Hunter Industries, 2300 Diamond St., San Marcos Calif. 92069 or call 619-591-7034.

CIRCLE NO. 318

New red fescue excellent blender

Fine Lawn Research is selling Flyer, a new variety of creeping red fescue. Flyer produces a line, dense, deep green turf that was judged the top green turf that was judged the top turf-type tall fescue in overall quality in the 1984 National Fine Leaf Fescue Tests. It blends exceptionally well with Kentucky bluegrass and fine textured turf.

A great deal of stress on other grasses.

Fine Lawn says it is more heat and drought resistant than bluegrass, and that contributes to greener turf in tough summers.

Contact Fine Lawn at 4900 Blazer Pky., Dublin Ohio 43017; 614-766-3640.

CIRCLE NO. 317

It Stopped Just To Have Its Pi

You’re witnessing a rare sight. Toro’s Reelmaster® 450-D actually standing still. A rare sight because the Reelmaster 450-D is so dependable that it goes and goes and goes. Giving you the high capacity mowing and precise even cutting you’ve been looking for.

Each cutting unit is connected to a universal joint, so it can float freely in any direction, following the contour of the turf for an even, uniform cut. Or can be locked in a fixed position.

The Toro 450-D gives you protection against hydraulic fluid leaks. Wherever possible, hoses have been replaced with strong steel lines and O-ring seals protect connections. A hydraulic warning system flashes an alarm when the fluid level drops. For easy servicing, test ports for the hydraulic system are right on the side of the machine.

Above-ground storage tank approved for gasoline

The Toro Company, Commercial Marketing Services, 8111 Lyndale Ave. So., Minneapolis, MN 55420.
Portable dikes prevent spills

Spills from hazardous waste in storage or in transit are prevented by a new line of portable dikes from Environmental Container Corp. Drums are placed inside the secondary containment sump and surrounded by floor and side walls of nonflammable steel. This replaces spill containment pallets with the drums above the sump with no side wall protection. Two- and four-drum Enviropac® dikes provide modular storage for an unlimited number of drums and are available with wall heights of 16 1/2 or 28 inches. Covered weatherproof vaults in the same modular sizes are also available. Contact Environmental Container Corp., PO Box 161, Delafield, Wis. 53018; 800-720-7137.

CIRCLE NO. 315

Direct controls drift, deposition

Precision Laboratories Inc has introduced Direct™, a new technology to control chemical drift and deposition. Direct™ offers a dual advantage in ground and aerial application of spray applied pesticides and fertilizers. It significantly reduces the risk of chemical trespass to non-target areas, and, at the same time, extensive testing has proven that Direct™ increases deposition by more than 30 percent. Direct™ is specifically formulated to eliminate the presence of spray droplets that measure less than 100 microns. The resulting increase in the overall size of droplets minimizes susceptibility to wind, evaporation and heat-generated thermal drafts.

By sideling the coverage of spray applied chemicals, Direct™ also reduces the potential risk and liability that can result from chemicals drifting to non-target areas. Designed for use in turf spray systems, Direct™ can be used with herbicides, insecticides and defoliants.

Contact Precision laboratories, Inc., P.O. Box 127, Northbrook, Ill 60065; 800-323-6280.

CIRCLE NO. 314

Ciba-Geigy offers micro-nutrients

Two iron chelate micro-nutrient formulations—Sprint 138 and Sprint 330—have been introduced by Ciba-Geigy for use in nurseries, landscape plantings and turf. Our customers said they need a product to correct iron deficiencies in turf and ornamental plants because iron-poor plants appear and are unhealthy, said Owen Towne, Sprint product manager. "Sprint addresses that need by providing iron in a form readily available to plants."

Sprint 138 features 0.4 percent chelated iron and corrects iron deficiencies in alkaline and calcareous soils. Sprint 330 has 10 percent chelated iron and corrects deficiencies in slightly acid to slightly alkaline soils. Both provide quick green-up to treated plants. Sprint can be applied as a soil or foliar treatment. In soil applications, the product must reach the root zone. It can be applied as a drench, injected directly into the soil or banded.

Foliar applications should be made as thorough cover sprays. Both applications may be made in conjunction with most pesticide and fertilizer applications.

Contact a local marketing representative or the Turf Ornamental Products group at 914-662-6000.

CIRCLE NO. 322.

Revamped Mule is more economical

The new Kawasaki Mule 500 off-road utility vehicle has the versatility of its siblings, plus it is more compact, economical and maneuverable. Its sturdy steel frame and cargo area, measuring 36 by 45 inches, handles a maximum payload of 600 pounds. An additional 900-pound towing capacity is available when equipped with the optional trailer hitch.

The single-seat Kawasaki Mule 500 has a 10.5-foot turning radius and measures 87 inches long by 84 inches wide. It is powered by a single-cylinder, four-stroke, 286cc overhead-valve, fan-cooled engine.

Like all Kawasaki Mule utility vehicles, the 500 is equipped with a continuously variable belt-driven automatic transmission.

Easing the workload on the driver and maximizing the efficiency of the small-displacement engine, torque is transmitted through a pair of pulleys connected by a V-belt. The pulley sleeves adjust in response to torque requirements, effectively altering the ratio between the drive pulleys and the driven pulleys in a smooth, infinitely variable manner.

The two-wheel drive Mule 500 is also equipped with a dual-mode differential. Moving the control lever to the unlocked position allows the rear wheels to rotate independently, which helps protect delicate surfaces.

For more information on the Mule 500 or any other Kawasaki product contact, Kawasaki Motors Corp., U.S.A., 9950 Jeronimo Rd., Irvine Calif. 92718-3016 or call 714-770-0400.

CIRCLE NO. 329.

Toro's exclusive variable clip control allows you to calibrate reel speed and mowing speed to give you the highest quality of cut in varying course conditions. Combine that with faster mowing speeds, up to 7.5 mph and 12.5 mph transport speed, and you're going to witness an increase in productivity. All controls are in easy reach of the operator to provide greater comfort.

The 450-D is designed with its weight evenly distributed around a center-mount 50 hp engine for better balance. This means more uphill climbing ability than other machines and better traction.

For faster, easier mowing with more beautiful results, call your local Toro distributor for a demonstration of the Reelmaster 450-D or contact Toro at the address below. A machine built from the ground up with proven Toro design experience. And that translates into the kind of productivity no one can argue with.

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CIRCLE #154
ADVERTISING INFORMATION

COMMERCIAL GOLF PROPERTIES
COLDWELL BANKER COMMERCIAL GOLF PROPERTIES MARKETING GROUP has been formed by the nation's largest commercial real estate brokerage to market golf courses nationwide. For information contact Roger Garrett, 602-262-5511 or Tom Harris, 602/262-5521.

FOR SALE
Golf courses and developments for sale: Kentucky and Georgia. Contact Jack Ridge or Rick Crawford.

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Used Rain Bird electric controllers. I have switched to Maxi V system & have 28 good used SC1230 & one MC3S. Will sell all or part. Call (407) 239-1057, ask for George.

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Golf Course Marketplace
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Golf Course Marketplace
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April
11-14 — Golf Asia '91, the first international golf show for the Asia-Pacific region, at the World Trade Centre in Singapore. Contact Zainal Abidin Shah, exhibition manager, at Connex Private Ltd., 3015A Ubi Road 1 #05-11/12, Kampong Ubi Industrial Estate, Singapore 1440; telephone 7489896.
16-17 — GCCSA seminar in Palm Springs, Calif., on Disease Identification and Control.*
22-24 — Golf Development Expo in Palm Springs, Calif. Contact Crittenden Research Institute, Inc., P.O. Box 1150, Novato, Calif. 94948; 800-445-8318.

May
4-6 — Turf & Ornamental Communicators annual meeting in St. Louis. Contact TOCA President Jerry Roche at 216-243-8100.
20-21 — Pacific Rim Japan-America Resort and Golf Executive Conference in Hawaii. For information call Executive Conferences at 800-873-9137.

June
31 — Griffin Field Day, Georgia Experiment Station at Griffin, Ga. Contact Georgia GCSA at 404-789-4076.

July
7 — Illinois Landscape Contractors Association Summer Field Day in St. Charles, Ill. Contact ILCA at 708-592-8443.
8 — MNLA Summer Meeting and Trade Show in St. Paul, Minn. Contact Minnesota Nursery and Landscape Association at 612-633-4087.
16-18 — TAM-MISSLARK Regional Nursery and Garden Supply Show in Dallas. Contact Texas Association of Nurserymen at 512-280-5182.

September
1-3 — International Garden Trade Fair in Cologne, Germany. Contact show producers at 212-974-8836.
25 — 25th Annual CGSA Fall Field Day at Carling Lake Golf & CC in Lachute, Quebec, Canada. Contact Canadian Golf Superintendents Association at 800-387-1056.

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CALENDAR

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October
7 — Allied Association Meeting at St. Ives CC and Bend CC. Contact Georgia GCSA at 404-769-4076.
24-26 — Summit 91 Women in Golf in Daytona Beach, Fla. Contact LPGA at 904-254-8800.

November
3-5 — Georgia GCSA Annual Meeting at Jekyll Island Club Resort. Contact Georgia GCSA at 404-769-4076.
5-6 — Indiana State Lawn Care Association Conference and Show in Indianapolis. Contact ISLCA at 317-577-9010.
5-8 — New York State Turfgrass Association Turf and Grounds Exposition in Rochester, N.Y. Contact NYSTA at 800-873-TURF.
14-16 — Landscape Maintenance Association Meeting and Demo at a site to be announced. Contact LMA at 813-584-2312.
17-20 — Green Industry Expo in Tampa, Fl. Contact Associated Landscape Contractors of America at 703-241-4004.
18-21 — Professional Lawn Care Association of America Convention and Trade Show in Tampa, Fla. Contact NYSTA at 800-387-1056.

December
3 — New Hampshire GCSA Annual Meeting in Concord, N.H.
3-4 — Southern Grounds and Turf Maintenance Expo in Myrtle Beach, S.C. Contact show producers at 800-553-7702.
9-11 — 22nd Annual Georgia Turfgrass Conference & Trade Show in Atlanta. Contact Extension Conference Office at 912-681-5189.

* - For more information or to register, contact Betsy Evans, education coordinator, Golf Course Superintendents Association of America, at 800-472-7878 or 913-841-2240. The seminars are dependent upon the availability of the instructors, and are therefore subject to change. One-day seminars cost $100 for GCSAA members and $120 for non-members; two-day seminars cost $180 for members and $210 for non-members.
Geese
Continued from page 62

Dealimg with the geese problem for years. But there are other means he has used success-
fully and will continue to use to discourage geese from calling his course home.

According to Thompson:
• Dogs are the most effective way to dis-
courage geese from taking up residence.

Dogs chase the birds away from shore and
into the water.

"Geese will feed a little on aquatic vegeta-
tion such as milfoil. However, they are graz-
ers and if they can't get on the turf to feed,
they will go elsewhere," Thompson said.

English setters, springer and Brittany
spaniels, golden and Labrador retrievers have
all worked well on golf courses. Patrolling the
course early in the morning or whenever
large concentrations of geese are in the area
has worked well. Bringing it back to the
kennel rather than leaving it on the course
after the job is completed helps keep the
dog's interest level high. The morning ritual
should also be treated as a job, not a lark.

Superintendent Bob Phipps of Shorehaven
Golf Club in East Norwalk, Conn., uses Betsy,
a 1-year-old Labrador retriever mix to patrol
his courses mile-long stretch of Long Island
shoreline, 40 acres of salt marsh, five ponds
and four brooks.

"The geese have been driving me crazy,"
Phipps said. "The dog works great until she
runs out of gas chasing them through the
water. We keep her inside the maintenance
center at night. She's a great watchdog, too.
I wouldn't want her to catch me trying to
catch one of them."

• Protocols work if used immedi-
ately when geese try to land on lakes or
ponds, Thompson said. Banging, screaming
or whistling shells can be fired from pistols
or shotguns. They are loud, so check with local
authorities regarding noise ordinances and
warn nearby members and residents.

"Have someone assigned to monitor your
golf courses on a daily basis," Thompson
said. "In most cases, the screamers will do
the job. However, if the geese refuse to leave,
give two or more pistols, or shotguns, and
stalk the birds in the early morning or evening
and shoot the crackers or bangers over their
heads."

• A single strand of wire placed about six
inches above the water line near heavily played
areas can force geese into less-used areas.

• Styrofoam models are more effective in
family groups of two adults and several young per
surface acre can distract geese from landing.
Swans are very territorial. While live ones
chase geese, they will also pursue golfers
who venture too close. That's why the
Styrofoam models are preferred. Swan fami-
lies should be placed along the main flight
lines where they are easily visible by flying
gulls.

• Obtaining permits to shake or freeze the
eggs of nested birds helps control goose
populations. Birds will re-nest if the eggs are
simply removed or broken. A goose will sit on
the frozen or shaken eggs for several weeks
before realizing they won't hatch.

• Repellents may be available soon, Thomp-
son said. The Department of Agriculture is
working on a product made from the essence
of grapes. The dye can be mixed with water
and sprayed along the water's edge. Lesco
Inc. has experimented with it and reported
some promising results.

"If you have excellent conditions for them,
they will return," Thompson said. "So it is
important to be diligent and persistent in
your quest for a goose-free environment."
Canada Geese are just plain foul for superintendents

Head 'em up, round 'em out, goosehide

By Peter Blais

You name it, he's tried it—wire, pyrotechnics, steel traps, dogs, round-ups. "There are no cut and dried solutions, but there are pretty neat," Thompson said. "But when they landed, and then seemed to forget about going home, we started to call them just plain foul." The main problem was goose droppings. Thompson's crew had to clean the unsightly, foul-smelling mess off three to four greens every morning before golfers' nostrils were offended and puts pushed away.

"If you have played golf through their excrement or have had to chase them off the fairway in order to make a second shot, then you realize what a dirty, disgusting polluter they have become," Thompson said. "These birds don't have the instinct to fly to Canada because they have never been there. They are golf course birds. A golf course environment has plenty of fresh water for drinking and roosting, vertical grasses to graze upon and no natural enemies." In addition to their droppings, the birds also create sanitation, noise, water pollution and lost turf problems. Members tired of the geese by 1990 and Thompson contacted the U.S. Department of Agriculture Animal Damage Control specialists.

In late June, Thompson's crew and the government employees rounded up the birds in late June while the birds were molting and incapable of flight. They were easily herded into a funnel-shaped net and placed in boxes for shipment to a state 700 miles away.

The club paid the Department of Agriculture $1,110 to remove 89 birds. Members considered it a bargain. Nearly a year later the birds had not returned, Thompson said.

Members were also happy Thompson's crew didn't kill the birds during a special non-migratory nuisance goose season. The local media hardly covered a nearby club that shot some birds, Thompson said.

Courses with large lakes are the most susceptible to goose problems. The CC of North Carolina has a 60-acre and a 90-acre lake. Because of that, the growing non-migratory population, and the many requests for bird removal sitting on U.S. Department of Agriculture desks, Thompson expects to see them just plain foul.

"When they landed, and then seemed to forget about going home, we started to call them just plain foul.

— George Thompson

Goose repellent may soon be available

By Peter Blais

A repellent may soon be available to keep Canada geese away from shore and off the golf course. The U.S. Department of Agriculture and LESCO, a manufacturer and distributor of golf course maintenance equipment and turf products, are working on such a product. The food-grade powder can be mixed with water and sprayed along shore.

"The initial test results have been encouraging," said a LESCO spokesman. "Something could be available in the next few years.

The repellent appears to be environmentally compatible, which should be helpful when the Environmental Protection Agency decides whether to approve its use, according to the company spokesman.

When they landed, and then seemed to forget about going home, we started to call them just plain foul."

— George Thompson
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