

GOLF COURSE NEWS

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GCSAA REDUCES ASIAN PRESENCE

Five months after joining forces with Connex and International Management Group, the Golf Course Superintendents Association of America has greatly diminished its role in Asia-Pacific's largest conference and trade show, *Golf Asia '94*. For story, see page 36.

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Members afforded more ballot input

GCSAA to rehash familiar issues in Dallas

By PETER BLAIS

LAWRENCE, Kan. — With last year's defeat still fresh in its mind, the Golf Course Superintendents Association of America Board of Directors has developed a new set of bylaw amendments calling for more membership input.

Taking the power to set dues away from members and giving it to the board was one of the most controversial recommendations a year ago. The membership defeated that measure by a huge margin.

According to GCSAA documents, this year's by-

law proposal calls for, "Preserving membership's authority to set dues for classes AA, A, B, and C [which covers most working head and assistant superintendents] — but through regular ballot voting procedures instead of the current voice vote — while assigning responsibility for setting other membership classifications' dues to the board of directors."

Associate and Affiliate membership classifications will be an issue again this year. This was a sore spot with many regular mem-

Continued on page 17

Lucas leads landowners' revolution

By MARK LESLIE

Former Wild Dunes golf course owner David Lucas, who took his state's coastal commission to the U.S. Supreme Court and won, wants to wrest control of land use from what he says is a government of "tyranny by legislative fiat and special-interest groups."

Lucas, who feels the government has an arm-lock on development, said: "I think we have about two years to stem the tide. Then it will be so entrenched it will be difficult to get out of."

While winning a 1992 case in which the Supreme Court ruled the S.C. Coastal Commission had wrongly prevented him from building homes on two coastal

Continued on page 24

New NGF study explores operations and revenues

By MARK LESLIE

JUPITER, Fla. — Golf course managers and superintendents around the country will now be able to compare their apples with other courses' apples. Drawing boundaries around the country according to climate and golf seasons, rather than distinct geographical regions, the National Golf Foundation has released reports that compare revenues, expenses, course characteristics, water supply and equipment.

The fruits of the labor — *NGF Golf Course Operations & Maintenance Survey Report* — are now available in daily-fee, municipal and private facility editions.

"This is the first time we've been able to obtain so much of this type of information in a national survey and it's providing some really interesting new insights," said NGF Vice President of Golf Course Development Richard Norton.

Norton pointed to the average operating margin at daily-fee facilities, which varies from 13.9 to 28.9 percent and averages 25.5 percent. In comparison, the national average for municipal facilities is 23.6 percent,

Continued on page 33



Ken Kavanaugh's newest creation: Orchard Valley Golf Course in Aurora, Ill.

New
Course Listings
Page 28



THE LEGEND OF GEORGE CRUMP

The 17th hole at Pine Valley Golf Club in Clementon, N.J., regarded by many to be the world's greatest golf course. However, it was created by an amateur architect, a one-hit wonder: George Crump. Columnist Tom Fazio discusses how Crump's inexperience as an architect may have helped create one of golf's wonders, page 11.

GCN to sponsor Golf Course Expo in 1994

By HAL PHILLIPS


ORLANDO, Fla. — Golf Course Expo, an annual trade exhibition and education conference sponsored by *Golf Course News*, will be held here Nov. 10-12, 1994, at the Orlando Convention Center.

Golf Course Expo is designed to serve the trade show needs of superintendents, owners, managers and developers in the daily-fee, resort, municipal and semi-private golf course markets. The conference — the outgrowth of Public Golf '92 and '93, *Golf Course News*' highly successful national conferences serving public-access course owners and managers — will be co-sponsored by the National Golf Foundation (NGF).

"We feel Golf Course Expo fills a clear need in the golf course industry," said *Golf Course News* Publisher Charles von Brecht. "Public-access golf operations are the fastest growing sector of the industry, yet there is no forum for its vendors or its particular educational needs. This exhibition and conference are designed to remedy both situations."

The two-day education symposia will be divided into three distinct tracks: Agronomy, Management and Development. The latter will be led by the NGF, while the Agronomy Program will feature speakers from the U.S. Golf Association

Continued on page 40



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Golf Course News adds to Advisory Board

Golf Course News has added four respected members of the golf course industry to its Editorial Advisory Board, joining superintendents Tim Hiers and Kevin Downing, architect Dr. Michael Hurdzan, consultant James McLoughlin, and builder Brent Wadsworth.

Brief biographies of each new addition appear below.

Golf Course News created the Advisory Board to advise editorial staff on golf course subjects of a technical nature.

...

Raymond Davies, one of the best-known golf course managers on the West Coast, has joined the *Golf Course News* Editorial Advisory Board.

The head superintendent at Virginia Country Club in Long Beach, Calif., since 1987, Davies has spoken extensively at national and state golf association, industry and government seminars. His articles have appeared in the United States Golf Association *Green Section Record*, *California Fairways* and *Western Turf Management*.

Davies is president and a director of the Southern California Turfgrass Council and past president of both the California and Southern California Golf Course Superintendents Associations.

Prior to Virginia Country Club, Davies was head superintendent at Candlewood Country Club in Whittier, Calif., and assistant superintendent at Hacienda Golf Club in La Habra Heights, Calif.

Davies graduated from California Polytechnic University in 1984 with a bachelor's degree in ornamental horticulture and minor in small business management.

He is a Certified Golf Course Superintendent and possesses a Qualified Applicator Certificate as well as Pest Control Advisor License in California.



Raymond Davies

Kevin Ross, Patty Knaggs, Raymond Davies and Roger Maxwell join GCN team

Patty Knaggs, CGCS, head superintendent at Hazeltine National Golf Club in Chaska, Minn., has joined the *Golf Course News* Advisory Board. At 38, Knaggs has already managed golf course operations at two of the nation's top clubs: Hazeltine, site of two U.S. Opens, the most recent being 1991; and Westchester Country Club, host to the PGA Tour's Buick Classic.

Raised in Cornwall-on-the-Hudson, N.Y., near West Point, Knaggs attended the University of Massachusetts where she earned a degree in turf management. She worked on crews at West Point and Eastward Ho! in Chatham, Mass., before landing her first assistant's position at Echo Lake Country Club in Westfield, N.J.

She also served as assistant superintendent at The Country Club in Brookline, Mass., where she worked with architect Rees Jones on a thorough renovation prior to the 1988 U.S. Open. She moved to Westchester in 1989 and Hazeltine three years later.

An experienced public speaker — she will speak at the Penn State and Iowa State turf conferences this winter — Knaggs is a member of the national, Minnesota, Iowa, Metropolitan (N.Y.), New England and New Jersey superintendent associations.



Patty Knaggs

Kevin Ross, superintendent at Falmouth (Maine) Country Club, has joined *Golf Course News* as an editorial advisor.

A certified golf course superintendent, the 34-year-old Ross is an instructor of turfgrass science at Southern Maine Technical College. He was president of the Maine Golf Course Superintendents Association in 1988 and 1989 and received its Distinguished Service Award in 1991.

A Maine GCSA board member for eight years and editor of its *Mainly Green* newsletter, Ross also belongs to the Golf Course Superintendents Association of America and GCSA of New England.



Kevin Ross

The Stonington, Conn., native attained an associate of science degree from the University of Maine in 1978, and a two-year turfgrass degree from Penn State University in 1981. After a three-year stint as assistant superintendent at Augusta (Maine) Country Club, Ross worked as head superintendent at Newton (Iowa) CC, then Martindale CC in Auburn, Maine, before joining the private Falmouth CC during its construction in 1987.

He is a member of the Turfgrass Advisory Committee for Seed Research of Oregon.

Ross's father, Wendell, a PGA professional in Stonington, built two golf courses in the 1950s in Connecticut — Stonington Manor, which does not exist today, and Pequot CC in Stonington. So Kevin started mowing greens when he was 8, and was working 40 hours a week on a golf course when he was 12.

He and his wife Karen have one daughter, Abigail, 3.

Roger Maxwell, a 31-year veteran of the golf industry, has joined the *Golf Course News* Advisory Board. Voted one of the 36 most powerful individuals in golf by *Golf Digest* (1991), he retired in July from his post as vice president of Marriott Golf to pursue other avenues in the golf industry.

While at Marriott, he was responsible for the development and growth of the company's 23 U.S. golf facilities, which grossed more than \$65 million annually.

Maxwell first joined Marriott in 1972 as head professional of the company's Camelback Golf Club in Scottsdale, Ariz. In 1976, he became di-



Roger Maxwell

rector of golf for Marriott Hotels and Resorts, a position he occupied until being named vice president in 1987.

An Oklahoma State graduate and accomplished golfer, Maxwell held assistant and head professional posts early in his career at Lincoln Park Golf Club in Oklahoma City, The Bel Air Country Club in Los Angeles and Pinetop (Ariz.) Country Club.

Maxwell has been affiliated with numerous PGA chapters and committees, *Golf Digest's* Top 100 Course Selection Committee, National Golf Course Owners Association Advisory Board and International Golf Partners Clubs Advisory Board.

Among the awards and honors that have come his way are recognition as a Golf Entrepreneur of the Year by *Golf Shop Operations* (1990) magazine; Top Director of Golf by *Executive Golfer Magazine* (1987); and PGA's national Resort Manager of the Year (1978).

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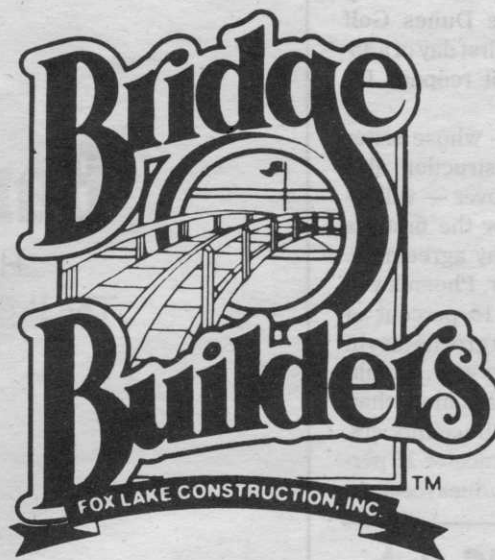
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Ocean Trails earns split decision from Calif. judge

RANCHO PALOS VERDES, Calif. — Both sides claim they are pleased with state Superior Court Judge Robert O'Brien's ruling that the proposed Ocean Trails golf course does not meet the state's affordable housing requirements, but is environmentally sound.

Ocean Trails developers Ken Zuckerman and Barry Hon want to build an 18-hole, Pete Dye-designed course and 83 homes along the coast.

O'Brien ruled their plan for a cash contribution to a city affordable housing program that does not yet exist did not meet the state's Mello Act requirements that coastal developments provide low- or moderate-income housing within three miles of the development.

But O'Brien also ruled the city's environmental approval of the project need not be reviewed.

Zuckerman and Hon were pleased with the judge's environmental nod and planned to work on the affordable housing requirement.

Opponents, led by the Sierra Club, were happy with O'Brien's ruling that work be halted until affordable housing guidelines are met. They could appeal O'Brien's ruling on the environmental issues.

Opponents have another lawsuit against the California Coastal Commission, which approved the project, set to go to trial in December or January. The suit alleges Ocean Trails violates state laws regarding coastal development.

Errant balls wreak havoc in Colo.

GRAND JUNCTION, Colo. — City-owned Lincoln Park Golf Course has erected a 20-foot net meant to protect Hanna Van Houten's fairway-side home from errant tee shots.

Unfortunately, the net appears approximately 10 feet short for the purpose.

According to Grand Junction Parks and Recreation Director Ted Novack, the net curbed the number of snap hooks that ended up in Van Houten's backyard. But an average of four or five clear the net each day and come to rest near Van Houten's home, which

was long ago equipped with shatterproof windows, she said.

"I got hit in the leg the other day," Van Houten told the *Daily Sentinel*.

The soil won't support a taller net, said Novack, who added that another 10 feet would also make the structure more vulnerable to high winds.

However, Novack said city staff will explore the idea of extending the net further toward the second tee box.

Van Houten has lived on the site since 1971. Lincoln Park was built in the 1920s.

Huisenga makes splash in Fla. golfing market

ST. LUCIE COUNTY, Fla. — The owner of the Florida Marlins baseball team, Florida Panthers hockey team and Blockbuster Video is jumping into the world of golf.

H. Wayne Huisenga expects his firm Stuart Property Holdings Ltd. will break ground soon on a 300-acre development near Harbour Ridge that includes an 18-hole golf course, country club, 90 homes, an 88-slip marina and two helipads.

Stalled for two years because of concerns about gopher tortoises and sensitive scrub habitat, the Harbour Links Yacht and Country Club project was cut back from an original plan for 200 homes. The course is expected to open for play next year.

Majette Dunes reopens with new manager

PANAMA CITY, Fla. — Newly renovated Majette Dunes Golf Course marks the first day of a 35-year lease when it reopens for play this month.

Phoenix Golf — whose sister firm, Phoenix Construction, also handled the makeover — will receive all profits for the first six years of the lengthy agreement. In the seventh year, Phoenix will give Bay County 15 percent of gross receipts from greens fees in excess of 40,000 per year. Should Majette Dunes amass more than 500 memberships, the county will, after seven years, receive 15 percent of membership dues receipts.

Upscale NC club ready for play

STATESVILLE, N.C. — Buffalo Shoals Golf Club is scheduled to open late this year.

The Mike Young design is an upscale, semiprivate course. The par 72, 6,800-yard layout boasts bentgrass greens and a 3,500-square-foot clubhouse.

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Bill Womac
Superintendent
Dunwoody Country Club
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Marlowe forms new statistical research firm

GULF BREEZE, Fla. — Scott Marlowe, best known for his statistical work on golf range operations and micro-market research with Forecast Golf Marketing and Financial Systems, has founded GolfData International, Inc.

"GolfData is working with the diplomatic corps of many foreign governments to document opportunities for golf development world wide," said Marlowe. "We have already established a database on golf facility presence and golf participation for over 200 countries on six continents. Now we are concentrating on specific, localized market issues."

Marlowe is joined at GolfData by two former Forecast advisors. Bill Strausbaugh, the Profes-

sional Golf Association (PGA) Teacher of the Year for 1992, and Bill Clarke, a former president of the PGA of America, have resigned their positions on Forecast's Board of Advisors to serve GolfData in a consulting and advisory capacity.

Marlowe said GolfData will attempt to expand on technology that he had previously advanced: A system created to estimate the size and sales volume of local markets.

"But the Sales Potential Reports lacked the kind of depth that permits effective demographic segmentation of market area," Marlowe explained. "The new system not only establishes the total market for a geographic area, but provides detail by various population characteristics."

Indiana developer chases golf dream

WESTFIELD, Ind. — An envisioned 27-hole golf course and upscale housing community would be "the greatest thing to happen to this area since the Colts came to Indianapolis," according to would-be developer Richard Perk.

Perk, who needs to have his 362-acre property rezoned by the Westfield-Washington Township Plan Commission, has signed on architect Tom Fazio to design the 18-hole regulation and nine-hole par-3 layouts.

Encircled by an eight-foot-high brick wall and protected 24 hours

a day by security guards, the development would be extremely safe, Perk told the Noblesville Ledger.

It would include a complete spa, sports fitness center, tennis courts, swimming pools and hot tubs.

Plans call for 260 lots, all bordering the course.

Lot purchase would also include country club membership, with no green or cart fees, no fees for guests and no dues.

"And if you don't want to cook dinner, you can call the club for room service," Perk said.

Universal plans Orlando course

ORLANDO, Fla. — An 18-hole PGA golf course and 300-unit golf villa community are parts of the multibillion-dollar expansion planned here by Universal Studios Florida.

The 600-acre project, taking place over several phases, is a joint venture of Universal Studios Florida, MCA Inc. and the Rank Organization PLC.

Construction could begin as early as 1995 and, when finished, will triple the size of the current Universal facility.

In addition to the golf course and villas, plans call for a second theme park; nighttime entertainment complex; five themed hotels; tennis center; expanded retail; merchandising and support facilities; conference and meeting space.

Dick Stuntz
Superintendent
Alvamar Country Club
Lawrence, Kansas

"With the amount of flooding and heat we've had this season, most preemergence herbicides would have fizzled out by now — but not Barricade. It's still giving us excellent control."

John Freeman
Superintendent
Dearwood Country Club
Kingwood, Texas

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Insurers to develop N.C. layout

HICKORY, N.C. — Two Hickory-area insurance men, Lennie J. Younce Jr. and Larry W. Aultman, have teamed to develop a proposed upscale, daily-fee golf course strategically situated here in the Catawba Valley.

Construction has already commenced at the course, tentatively named Buffalo Shoals Golf Club.

The 18-hole course will be located off the Sharon School Road exit of Interstate 40, between Statesville and Hickory. Mike Young Designs of Watkinsville, Ga. will design the 6,800-yard lay-

out.

"The course has the potential to draw over 40,000 rounds of golf immediately because of the nearby I-40 and I-77 interchange," explained Aultman, owner of Aultman Insurance Agency in Caldwell County where he served 12 years on the County Board of Education.

Younce, who said he expects an official opening date of Feb. 1, 1995, owns City-Country Insurance of Hickory and has competed in the U.S. and British amateurs.

Mich. town wants GM land for golf course

WARREN, Mich. — Spurred on by the success of their existing municipal 18, elected officials here aim to purchase 312 vacant acres from General Motors to develop another city-owned golf course complete with condominiums.

With money secured through the newly established Downtown Development Authority, city officials are currently negotiating with GM to buy the land, estimated to be worth \$8.5 million, according to the *Warren Weekly*.

Jerry Comeau, manager of the existing St. Clair Shores Golf Club, said it will cost the town \$2 million to build the new course and another \$2 million for a maintenance building, golf car shed and clubhouse.

The development of St. Clair Shores Golf Course is a textbook example of sound municipal investment. In 1972, the city of Warren purchased 150 acres — 100 of which were already being used as a golf course.

Armed with a \$900,000 bond issue, the city rebuilt the first three holes after purchasing several adjoining homes and streets. The Lakepointe condominium complex was constructed on the remaining 50 acres.

Today, the St. Clair Shores GC did 80,000 rounds, turning a profit of \$235,000. That was enough to convince the city another course, located near 14 Mile and Mound roads, would be a good investment.

Penn State book discusses varied IPM strategies

UNIVERSITY PARK, Pa. — Penn State University's Agricultural Sciences Department has released a book on turfgrass pests titled *Developing an Integrated Turfgrass Pest Management Program*.

"Nearly every lawn, golf course, athletic field or institutional ground harbors some weeds, diseases, insects or pests," said Dr. Peter Landschoot, assistant professor of turfgrass science and author of the publication.

"It's only when pest populations build to sufficient levels to cause intolerable damage that they need to be controlled.

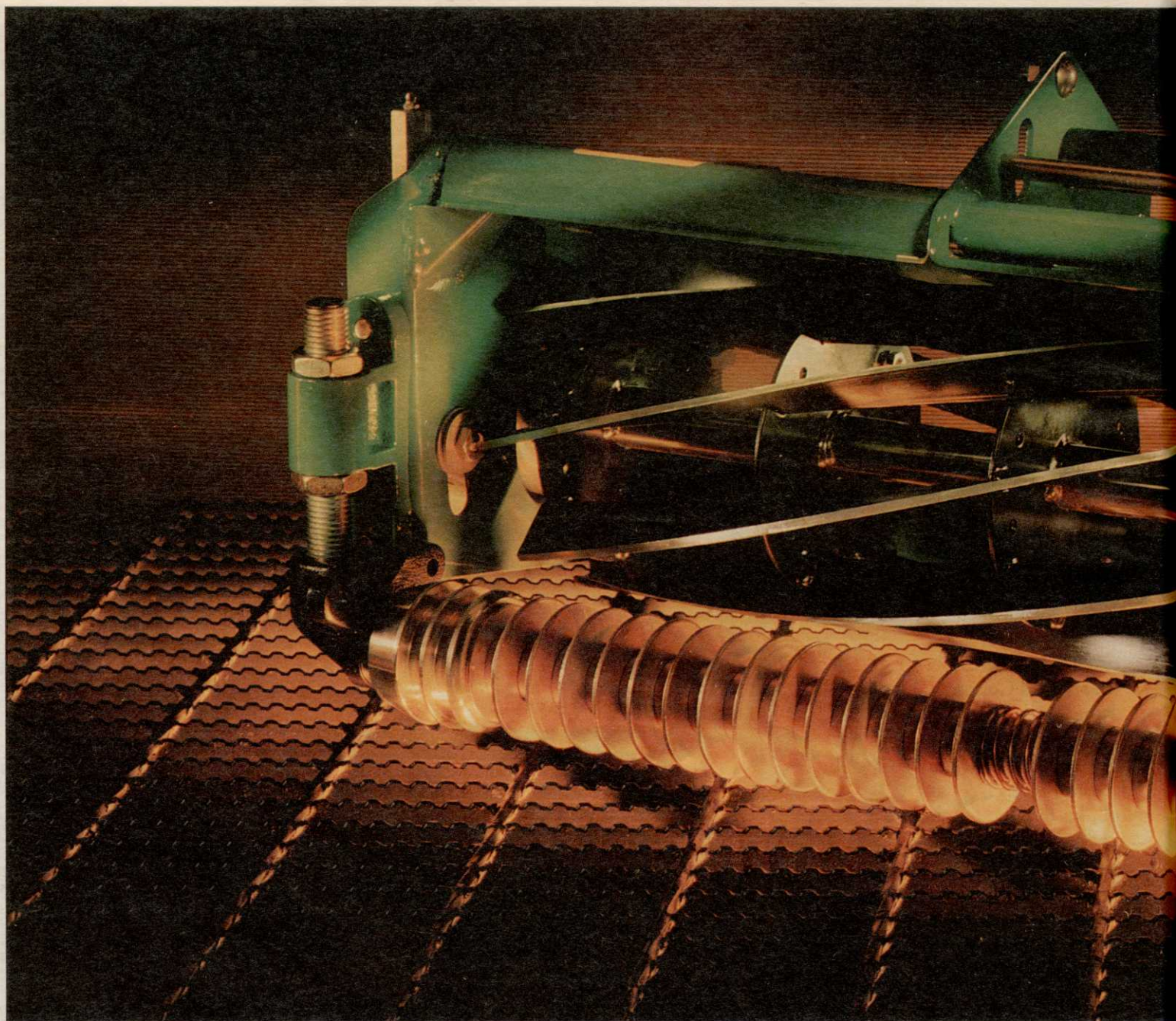
"Tolerable levels of pest damage — called pest-response threshold levels — are determined by the number of pests or the amount of pest damage that can be sustained before an unacceptable amount of damage occurs.

"Threshold levels vary from site to site and are based on the user's needs and expectations."

Golf greens, for example, have low pest-response threshold levels because they must be smooth and blemish-free. Disease, injury or weeds can mar the surface and interfere with the roll of the ball. Golf course fairways have much higher threshold levels because a smooth surface is not as important.

"The keystone of an IPM program is frequent, careful monitoring of pest activity," said Landschoot. "Pests that are detected early can be controlled before the threshold level is exceeded."

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Par-3 possible in Monroe, Mich.

MONROE, Mich. — City fathers are exploring the possibility of building a no frills, par-3 golf course here in Munson Park.

The Monroe City Council has instructed City Manager Reid S. Charles to come up with proposals on how a golf course might feasibly be built on the site. Munson Park is located in the city's west end on N. Custer Road.

There are no public golf courses in the city.

Councilmen agreed that any golf course must be built and paid for by private investors. But at least one council member noted the city could net some of the profit by leasing the land.

City administrators were assigned a similar golf course investigation project eight years ago.

However, interest diminished when they came back with 18-hole proposals averaging \$2.25 million.

SD course to improve community

HURON, S.D. — Construction has begun on a municipal golf course here.

Broadland Creek Golf Course, which will join the existing Meadowbrook and Memorial municipal facilities, "makes us more competitive," Mayor Merle Lewis told the Huron Plainsman. "This makes us the type of place that people want to come to."

The \$1.2 million course is designed by William Gill & Associates of River Falls, Wis., Site Design and Associates Inc. of Fargo and Kent Larsen of Design Partners of Huron.

Huppert Brothers of Billings, Mont. is the general contractor.

Huron is paying for the project through the second one-cent city sales tax. The city also budgeted \$150,000 in 1992 and 1993, part of the funds being used to install irrigation at the city's Memorial Golf Course.

The seven-member Huron Golf Commission was appointed by the City Commission about two years ago to study the feasibility for the course. The commission will solicit sponsors for course amenities such as benches, tee markers, flags and signs.

Club building to be used for temporary jail

FOND DU LAC, Wis. — Rolling Meadows Golf Course closed Oct. 12, to undergo a nine-hole renovation. While half the course is out of commission, an abutting structure will serve as a temporary, minimum-security jail site.

"It's not the best [situation]," said Greg Guenther, a spokesman for Rolling Meadows GC, "but we'll have to live with it. The golfers aren't thrilled with it. But I think as long as the prisoners are controlled and kept out of sight, it'll work out."

"We're a county-owned facility. Whatever they have to do, we'll go along with it."

Guenther noted there are separate entrances to the golf course and temporary incarceration facility, limiting contact between inmates and golfers. Further, Rolling Meadows anticipates smaller crowds during the renovation, which should last through the 1994 season.

Funding goal almost met for Neb. nine-holer

FULLERTON, Neb. — Residents of Fullerton and Genoa are near their goal of raising \$325,000 to begin construction of the new nine-hole Loup and Cedar Valley Regional Golf Course.

Organizer Larry Rogers is heading the effort which hopes to gather lifetime members for \$6,000 apiece.

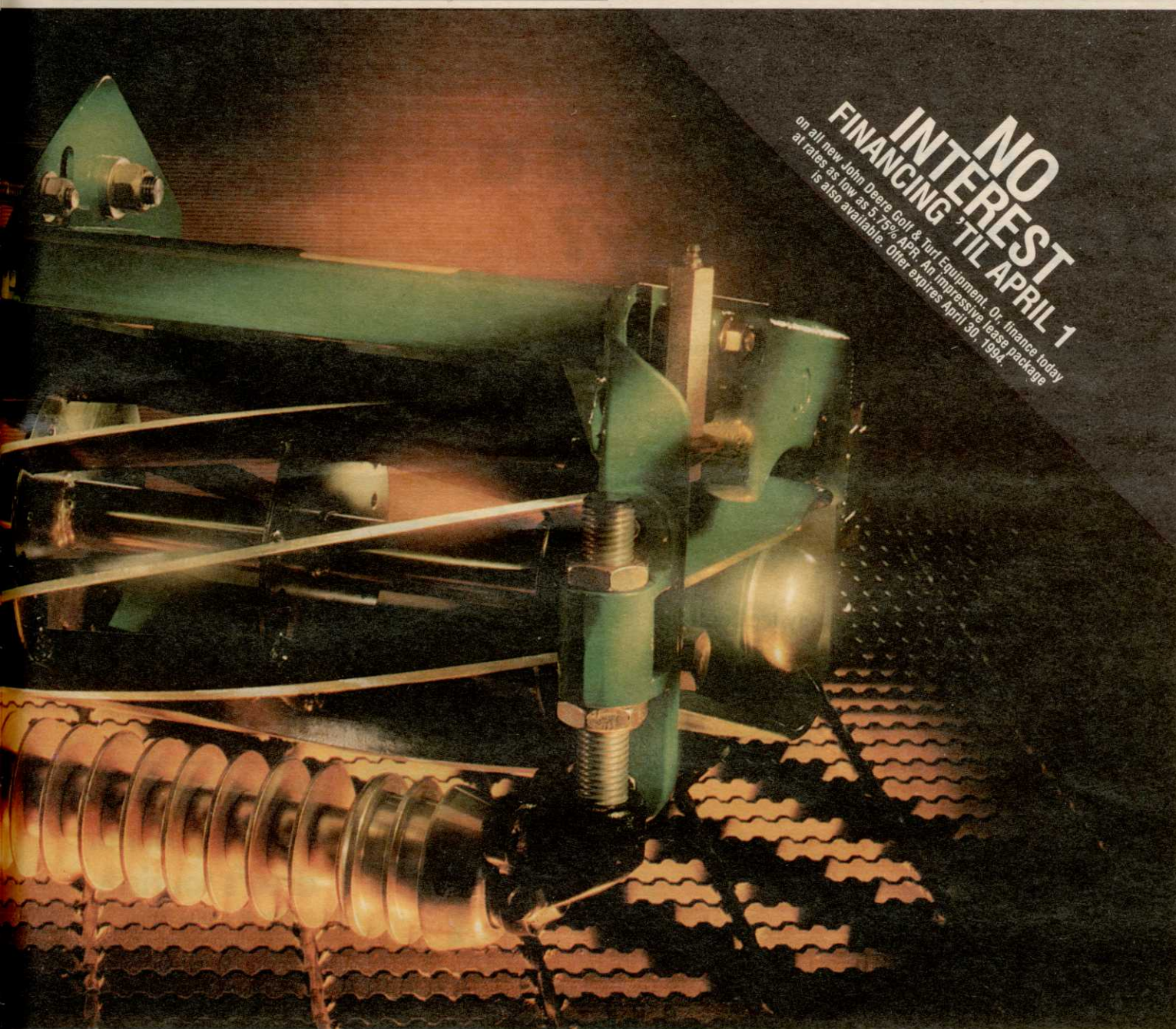
Designed by South Sioux City architect Marty Johnson, the track offers a tremendous view of the Loup and Cedar valleys, according to Rogers. The 80-acre layout will include water hazards but no sand bunkers.

Foster layout set to open in Texas

SAN ANTONIO, Texas — In this year of foul-weather-induced delayed openings, it's refreshing to see a course open early.

Course conditions at The Quarry, which had been scheduled to open in early spring, will allow the Keith Foster design to instead open on a limited basis Nov. 27.

A temporary clubhouse will service the course until the permanent structure is completed in February or March. The formal grand opening will take place next spring.



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Environmentalists delay Calif. course

GOLETA, Calif. — Supporters reportedly outnumbered opponents 20 to one at public hearings, but two environmental groups have sued to stop construction of a golf course here.

Santa Barbara Urban Creeks Council and Citizens Planning Association filed suit in Superior Court in late September, effectively halting construction until after the scheduled court hearing next February.

Having won approval, by a 3-2 vote, from the Santa Barbara County Board of Supervisors, Dos Pueblos Golf Course Partners had planned to break ground on the 18-hole course in No-

vember, according to managing partner John O'Shaughnessy.

The suit alleges construction of the \$15 million project will include "massive grading," bury marshlands and destroy about 1,500 feet of Devereux Creek.

O'Shaughnessy told the *Santa Barbara News-Press* that this would be offset by creating new wetlands, enhancing some marshes and planting thousands of trees.

If the suit can be settled this winter and grading begun by April, the course would not be ready to open at least until mid-1995.

Ore. developer plans \$25m resort

SHADY GROVE, Ore. — All systems are go for a \$25 million golf resort development on a 390-acre site beside the Rogue River.

Rogue Development group has proposed an 18-hole golf course and resort here in Southern Oregon. Eventual construction will include more than 600 homes and a 95-room hotel, according to local developers Carl Taft and Robert Bellamy Jr.

Initially, the project will include construction of a semi-private golf course south of Long Branch Creek on river's west bank. Cupp

Designs and J. Michael Poellot Golf Design Group have both been approached regarding design contracts.

"It could be the nicest golf course in Oregon," said Bellamy, who added that one of the designers told him, "The site is really awesome."

This proposal adds to a mini-development boom in the Rogue Valley, where golf courses are planned or under construction in the nearby towns of Ashland, Medford, Central Point, Eagle Point and Grants Pass.

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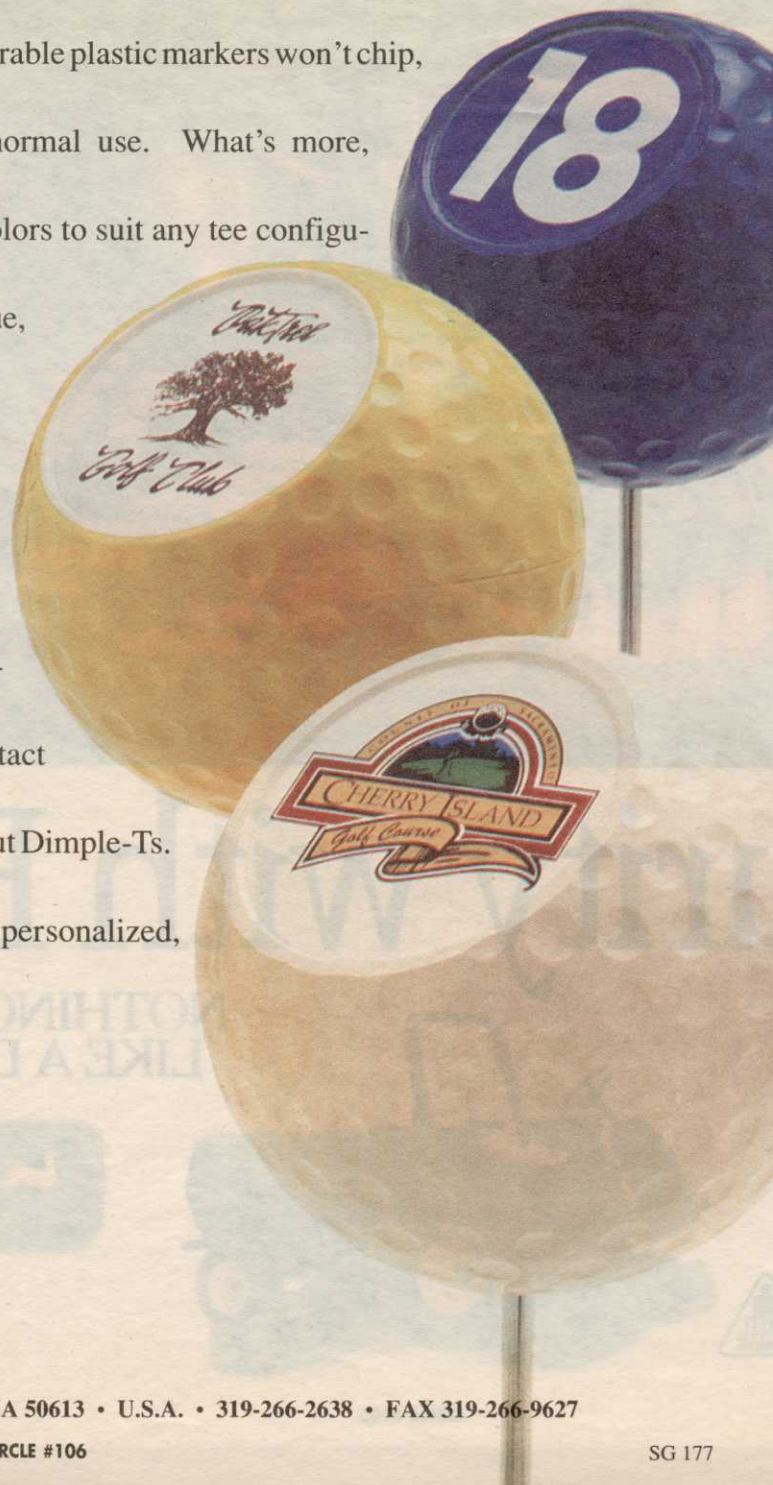
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Va. Interstate park could host new public track

CLINTWOOD, Va. — An 18-hole golf course could loom in the future for Breaks Interstate Park.

The Breaks will receive \$100,000 a year for the next three years from the Coalfield Economic Development Authority to enhance tourism.

The 1993 General Assembly approved legislation allowing Dickenson and Buchanan counties to use CEDA money to fund improvements at the park. Dickenson will use the funds in a high-profile marketing campaign.

The Breaks is one of only two interstate parks in the country and attracts 386,000 visitors a year. Officials hope to eventually attract 2 million a year.

Meanwhile, \$6 million to \$8 million in improvements are planned, including an aerial tram and charlift, a board walk through the gorge called the Grand Canyon of the South, a conference center, dinner theater and motel.

Proposed course will help Minn. area's tourism

PRIOR LAKE, Minn. — City officials hope the area's reputation as a burgeoning entertainment region will be enhanced by a \$300 million development that includes a golf course.

The 300-acre golf course is already under construction and should be playable by the end of next summer.

Developer Richard Burtness won city and Metropolitan Council approval to proceed with the project which will include a Radisson hotel, shopping center, and more than 500 homes and villas near Mystic Lake Casino.

Burtness told the Minnesota Real Estate Journal that his project, called The Wilds, sits on "the best land in the metropolitan area and we hope to be a cornerstone of the recreation business here."

Jeff Brauer of Golfsapes in Arlington, Texas, is teaming with touring pro Lanny Wadkins to design the golf course.

Rare flower threatens Minn. course

BIWABIK, Minn. — Rare floating marsh marigolds, discovered near Giants Ridge Recreational Ski Area, could block a planned 18-hole golf course. But Iron Range Resources and Rehabilitation Board (IRRRB) officials, who want to build a course to enhance Giants Ridge as a year-round resort, feel the plant may not be so rare.

"We've had calls from people who say they have this floating marsh marigold all over the place. I don't think it's an issue any more," IRRRB Deputy Commis-

sioner Gary Ellefson told the *Duluth News-Tribune*.

Yet, the U.S. Forest Service says it has only two reports of sightings of the plant. It suspects other sightings were of common marsh marigold, which is widespread.

While the controversy over the plant is being sorted out, IRRRB has proceeded in planning the course, hiring Jeff Brauer of GolfScapes in Arlington, Texas, and PGA touring pro Lanny Wadkins to design the track.

The IRRRB hopes to open the course in 1995.

Ill. muni facing Dec. deadline to stop pollution

OAK LAWN, Ill. — The Sewer District has given the Park District until Dec. 1 to devise a way to stop polluted runoff from a course construction site from flowing into a nearby creek.

The course is being built over a dump that closed 20 years ago, according to *The Daily Southtown*.

The park district later installed a two-foot clay cap over the entire 88-acre golf course site to prevent leakage.

But the Metropolitan Water Reclamation District discovered a small stream of water containing high amounts of ammonia and iron running out from the dump site and into Stony

Creek last year. It cited the Oak Lawn Park District last October.

The Park District has tried to stop the flow spending \$4,200 to put more clay over an eight-by-10-foot area and later installing a clay plug over the spot where the polluted stream reaches the surface. Neither effort has worked.

It is unknown how long the runoff has been polluting the stream or if the course construction is in any way responsible.

The Park District is reportedly exploring more expensive strategies, including channeling the away through a pipe or installing a filtration system.

Va. county to raise money for public track

TRIANGLE, Va. — The Prince William Park Authority plans to raise \$13 million to finance two projects, including a \$6.1 million golf course at Locust Shade Park here.

Officials cited a "great demand for golf" in the county and only one regulation 18-hole public facility to meet that need. Fewer than one in eight of the estimated 1.5 million rounds of golf played in northern Virginia in 1992 were played in Prince William County.

Architects and engineers reportedly are being chosen for the golf course and a water theme park facelift, both of which are expected to be complete and open in the spring of 1996.

Details of a financing package are incomplete but could include a short-term bank loan or issuance of a revenue bond, according to the Washington Business Journal.

Gardens and gazebos grace new Wis. layout

MADISON, Wis. — Tumbledown Trails opened its first nine holes in early September.

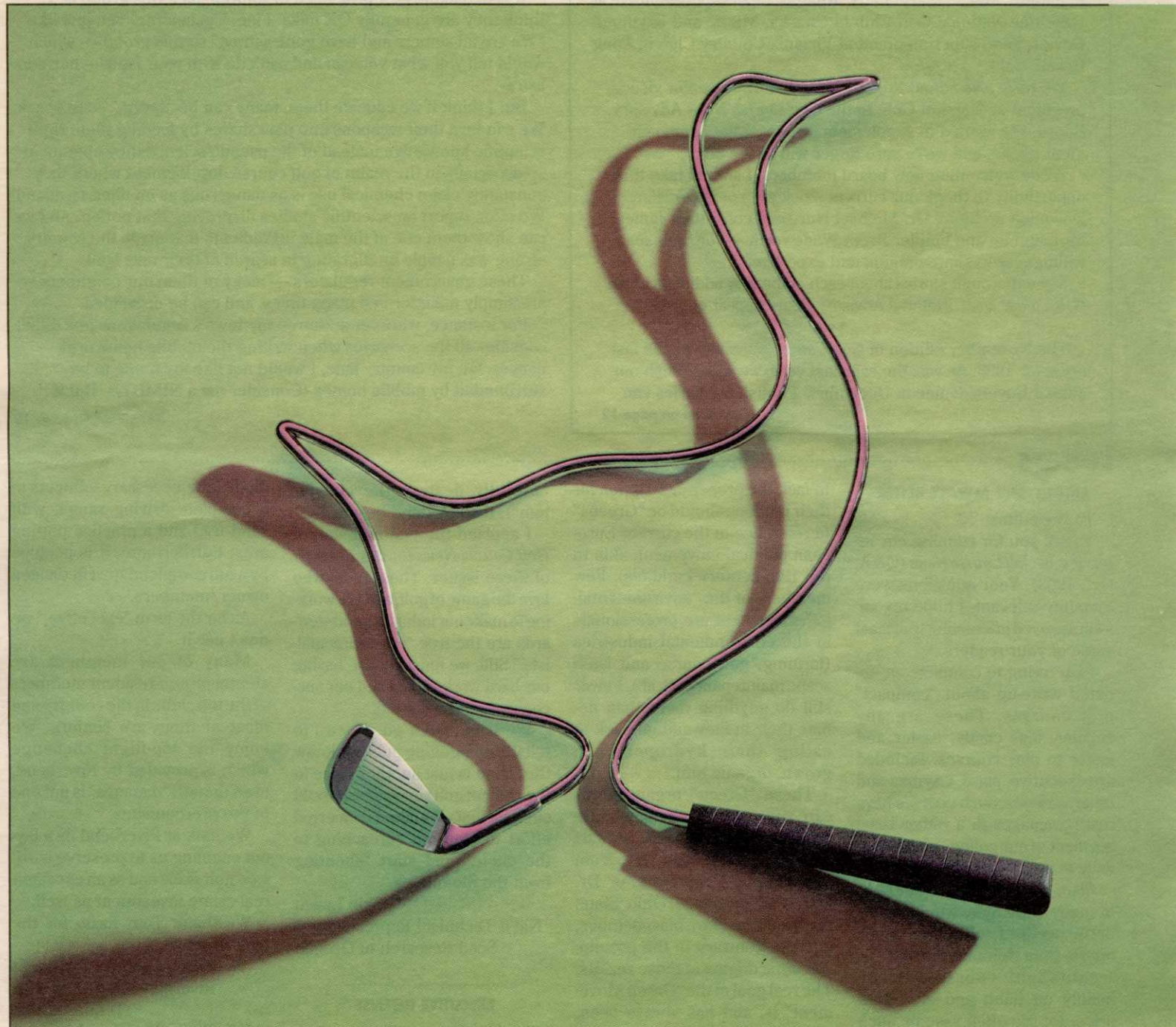
The daily-fee facility was designed and built by landscaper Jim Watts, who incorporated flower gardens, gazebos and covered bridges into the layout.

The course closed in mid-October to allow for installation of an irrigation system and continued construction of the second nine.

The grand opening will take place next year.

Correction

Due to incorrect information supplied to *Golf Course News*, there was a mistake in October's news story on municipal courses in South Bend, Ind. The city's three existing courses will not be privatized. Each will continue to be managed by the Parks and Recreation Department, according to Superintendent Phil St. Clair.



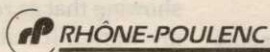
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Hearty welcomes to our new Advisory Board members

A quick glance to the right reveals a new set of additions to the *Golf Course News* Editorial Advisory Board.

Superintendents Tim Hiers and Kevin Downing have provided our staff with a wealth of knowledge and valuable feedback. These two Floridians will continue to serve, but we felt the board should feature more geographic diversity.

With that in mind, we welcome Kevin Ross, head superintendent at Falmouth Country Club in Falmouth, Maine; Mary "Patty" Knaggs, head superintendent at Hazeltine National Golf Club in Chaska, Minn.; and Raymond Davies, head superintendent at Virginia Country Club in Long Beach, Calif.

We have also added Roger Maxwell, former senior vice president at Marriott Golf, to the *Golf Course News* Advisory Board. We wanted to supplement our coverage of management issues, and we're sure Roger will fit the bill.

While welcoming new board members, I should take this opportunity to thank our current stock of experts — Hiers, Downing, architect Dr. Michael Hurdzan, consultant James McLoughlin and builder Brent Wadsworth — for their ready willingness to share opinion and expertise.

More thorough stories about each of the new additions to the *Golf Course News* Editorial Advisory Board appear on page 3.

...

The November edition of *Golf Course News* will be the last issue for 1993. As was the case last year, we will publish our annual Buyers' Guide in December. Publisher Charles von



Hal Phillips,
editor

NIMBY? No way! Property rights activist on the mark

Property ownership. To some people it is more important than freedom of speech and worship. The world over, land has been attacked by foreign countries, overtaken by native insurgents and gobbled up by power-hungry expansionists for 6,000 years.

Today, in the United States, the attack is from within the framework of our own society. And it is insidious because the property owner doesn't see a militia approaching to confiscate his land. The "militia," in fact, is his town, county, state or federal government whose "weapons" are its land-use and environmental regulations.

It is debatable how principled or unprincipled this group is. I think they are generally OK folks. Fine. Upstanding. Yet, just like "We are all sinners and have gone astray," so this group — which would tell you what you can and can't do with your land — has gone astray.

But I think if we educate them, many can be "saved," so to speak. We can turn their weapons into plowshares by feeding them right scientific knowledge instead of the pseudo-science they operate in — especially in the realm of golf course development where they constantly claim chemical use is as dangerous as on tilled farmland. We often report on scientific studies disproving that notion. And we can show them one of the main ingredients that made the country strong was people immigrating in search of their own land.

These government regulators — many of them our neighbors — are simply misinformed many times, and can be dissuaded.

For instance, whoever authored my town's regulations just didn't consider all the scenarios when writing the mobile home ordinances. On my country lane, I would not like my home to be surrounded by mobile homes (Consider me a NIMBY?). But if



Mark Leslie,
managing editor

Continued on page 12

Letters

BIGGER ISN'T ALWAYS BETTER

To the editor:

Thank you for running our interview in *Golf Course News* (Q&A, Oct. 1993). Your questions were certainly relevant. I hope my answers proved interesting to at least some of your readers.

I am trying to complete an updated write-up about "compact" golf courses. These are any smaller, less costly, easier and faster to play courses. Included are executive, par-3, Cayman and other varieties. Such courses have real advantages to a rather large segment of our golfers, plus potentially to scads of would-be golfers.

Also, more compact courses, in many situations, would better fit the needs of golf course developers than "championship" or "regulation" courses. Based mainly on habit and at a high price, we too often assume such big layouts are the only ones worth their tee markers.

Keep the good golf course news coming!

William W. Amick, ASGCA
Daytona Beach, Fla.

HIGH SIERRA DRAMA

To the editor:

As someone who has spent his entire life enjoying the outdoors, I am continually offended by the semantics of the golf vs. radicalism debate. I don't give much weight to political correctness, so I will speak freely.

The Sierra Club/Earth First lobby [Leslie comment, GCN September 1993] is universally referred to as "Environmentalists."

In fact, the proper description for their minions should be "Greens" (a reference to the current European political movement, akin to the 19th century Luddites). Few members of the "environmentalist" movement are professionals in the environmental industries (farming, golf course and landscape maintenance, et al.). Fewer still do anything more than donate their money and go back to eating their hydroponically grown, organic tofu.

These "Green" organizations care very little for the factual research of scholars like Dr. Stewart Cohen in Cape Cod, Dr. Tom Watschke at Penn State, or Dr. Harry Niemczyk at Ohio State. Hard, cold facts are blasphemous, and run contrary to the pseudo-scientific dogma of these zealots. The real goal of the "Green Movement" is, and has always been, political power in the form of anti-capitalistic extremism.

The tragedy of all this is that the Greens seem to have the attention of far too many uneducated members of our society. These "eco-warriors" (lawyers and lobbyists, all) have worked very hard to place guilt on all who do not side with them ("...those who are not with us, are surely against us.") They convince the citizenry that golf is inherently "elitist" and "destructive" to bunny rabbits and people, alike. They easily sway local, state and the federal governments with gloom-and-doom predictions, making it easier for elected officials to side with pseudo-science (who among us would vote to

"willfully destroy the ecosystem"), than to stand beside fact.

I applaud the editorial staff of *Golf Course News* for its coverage of these issues. Those of us who love the game of golf, and are working to make our industry good stewards are the true "environmentalists." Still, we must endure having our hard work vilified and our successes grossly ignored.

We have much good news to tell the non-golfing public. I know that mine is just another voice in the choir of golf advocates. I would suggest that we make a concerted effort to stop our "preaching to the choir," and start "shouting from the mountains."

Skip Lynch
Nat'l Technical Representative
Seed Research of Oregon

EXECUTIVE DEFENSE

To the editor:

We read with interest your article on "executive" golf courses in the August 1993 issue of *Golf Course News*. We were even instrumental in its preparation by assisting Jan Beljan of Tom Fazio's office, our architect, in taking updated photographs of our facility here at Riverbend Golf Club in Tequesta, Fla.

We are somewhat dismayed, however, at the negative impression left by the article regarding this type of course. Even Fazio is quoted as saying "They failed." We amend that to read "Some have failed." Ours is far from a failure!

Riverbend not only represents excellent course design but in-

cludes the necessary adjuncts of a complete driving range, with sand trap and a practice putting area. Furthermore, it is peopled by a full complement of dedicated owner/members.

As for the term "executive," we don't use it.

Many of our members are alumni or non-resident members of the top clubs in the country and most of them are seniors. We enjoy the top-flight challenge which is provided by Riverbend, even though "distance" is not one of the prerequisites.

We look at Riverbend as a layout enabling us to preserve hard-won golf skills and as an excellent real-estate investment as well.

We thank Tom Fazio for the opportunity.

Robert C. Costello, President
Riverbend Golf Club, Inc.
Tequesta, Fla.

Ed. While Riverbend has enjoyed success, no one can deny the "executive" course phenomenon — especially the moniker — has fallen flat. However, far from leaving a negative impression, we felt Mark Leslie's story offered multiple ideas that might help resurrect the worthy genre. We felt the headline, overall tone and conclusion of the story were quite positive. In Mr. Fazio's defense, we offer his closing quotation: "One of my favorite courses I've ever done is an executive in Tequesta, Fla., called Riverbend. I'd have no problems taking any future client to that project and showing that as representative of my work... It's absolutely sensational golf."

GOLF COURSE NEWS

THE NEWSPAPER FOR THE GOLF COURSE INDUSTRY

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GOLF COURSE NEWS

Fazio discusses Pine Valley and the mystique of its amateur architect

We asked Tom Fazio to comment on Pine Valley Golf Club in terms of its design and its designer, George Crump. This month's issue of *Golf Course News* is centered around amateur architects, and Crump is their patron saint. He designed only one golf course in his life, Pine Valley, considered by many to be the world's greatest golf course.

Fazio is, of course, a golf course architect of some repute. He also has some special insight into Pine Valley: His uncle and fellow designer, George Fazio, played professionally out of Pine Valley in the 1940s; Tom has been a member of the club since the early 1980s; and he laid out *The Short Course* at Pine Valley, 10 warm-up holes designed to mimic shots one might encounter on "The Long Course."



Tom Fazio

tees and the natural vegetation of sand and brush you must play over. That, in itself, creates the drama and excitement for the golf hole and also creates a very difficult golf course to play.

"But I think Pine Valley's reputation evolved like the land evolved. If you look at early pictures, there were far fewer trees on the site. As the course evolved, the intimidation evolved. I don't think it was necessarily predetermined.

"For example, the cedar trees on the 6th hole — the dogleg right. I'd be very surprised if those trees were there 50 years ago. And they make the hole. The same situation exists on 14.

"How much does nature help? How much does nature help modern courses? Who can say?

"Fifty years from now, I wonder whether they will give me credit for things I didn't do. I wonder..."

"I feel that there are five items or areas that make Pine Valley great:

1. A True Golfer's Golf Club
2. The Environment
3. The Stately Ambiance of the Facility
4. Great Management
5. The Design Detail of the Golf Course

"It's only been in the past 20 years that we have had the rankings and ratings of golf courses. The undulations of the greens, the shapes and forms of the bunkers, the rolling and contours of the fairways, the beauty and drama of the tee shots — all these create this wonderful experience. I think it's a combination of all the above qualities and certainly the design detail accounts for the uniqueness of this golf course.

"I feel that of all the golf experiences that I've had throughout my career, the one place I know that I as a golfer would want to be every day of my life for the rest of my golfing life, I can honestly say Pine Valley would be the ultimate place to be."

Fazio was asked if Crump's amateur standing played a role in the design of Pine Valley.

"I don't think you can separate them. It was the only course he ever did, and that definitely adds to the mystique of the place. But when you go and critique things now, you have to be very careful. You can't get inside someone's head. Unless the designer's around to give his insights, it's impossible to know what his intentions were.

"I think it's fair to say, though, that Crump introduced target golf. And if it existed at other golf courses, he certainly expanded on it... It certainly is unique and possibly the ultimate in target golf.

The golf course has so much variety, strength and character that it's almost hard to pinpoint one issue as being the strong design element.

"I personally feel that of all the golf courses that exist in golf, Pine Valley may be the only one where by moving a tee, fairway or green, you may not be able to improve it. You may be able to move something for sake of change. But in terms of actually moving or recreating or adding something relative to design to the golf course, I personally don't think you could make it any better.

"The land [Crump] had made it possible, of course. You could have done it with wetlands, but you can't play out of wetlands. The sandy, loam soil that exists on the property also allows for excellent drainage, thereby creating a quality turf. Also, it is very advantageous from a golf design standpoint because it allows the contours to be varied in so many different directions. Generally speaking, as a designer, I would say that the ideal site for a golf course would relate to an environment that would have dense vegetation, rolling terrain and sandy soils. Those three exist at Pine Valley."

"There are many aspects of the property that relate to a quality environment. The dramatic land forms. The strong, rolling contours that run throughout the property offer very dramatic hues and undulations. The vegetation and numerous varieties of specimen trees — from oak to pine trees, to scrub oak, to varied hardwoods — exist throughout the entire site.

"If I had to pick one particular item to characterize, or to actually describe, the golf experience at Pine Valley, I would say this: When you stand on every tee, the framing and definition of the hole are so strong and visually attacks your eye, that it almost becomes a frightening experience. That's target golf — meaning not as many



A SHORT INTERPRETATION OF THE ORIGINAL

Architect Tom Fazio, a member at Pine Valley, completed *The Short Course* at the Clementon, N.J., club in 1991. The purpose of this 10-hole track is to prepare members for the regulation 18 holes at Pine Valley. Each of the 10 "Short" holes corresponds to another on the "Long" course. The 10th hole on *The Short Course* (above) is meant to simulate the necessarily uphill approach to the second green on the regulation course.

ASGCA sees growth in public sector

Public golf courses properly supported by solid demographic data and good planning will be the most active segment in the golf market in this decade, according to Jerry Matthews, president of the American Society of Golf Course Architects.

"Demand for more affordable golf courses should continue well into the next decade," said Matthews. "Municipal governments that provide an environmentally friendly public golf course with rates consistent with what the market will bear will generate considerable revenues and significant profits."

Matthews cited the National Golf Foundation's recent report that shows a growing demand in the number of golfers in the United States.

"In 1960, there were about 6,300 golf

courses in the United States, and about 4.4 million players," Matthews pointed out.

"Today, there are more than 14,000 golf courses in the United States, and more than 24 million players. Clearly, the demand for public courses exists."

He added that a properly managed public golf course can generate profits that will support other recreation activities and other public programs.

"Some golf courses in the southeast and western regions of the United States are realizing annual net profits in excess of \$300,000. That money can be used to support plenty of other worthy local projects, and with the federal government putting increasing pressure on local governments to support their own programs, a well-run golf course is a godsend," said Matthews.

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Phillips commentary: Buyers' Guide

Continued from page 8

Brecht and Data Base Editor Cathy Finn have worked overtime this fall, stocking the Buyers' Guide with all the vital information on most every supplier to the golf course industry.

We'll return with the next issue of *Golf Course News* early in January 1994 — and what an issue it will be! A complete preview of the Dallas show... An address to *Golf Course News* readers from EPA Administrator Carol Browner... The annual GCN Awards, including Best Maintained Course on the LPGA Tour and Architect of the Year... The first installment of our United States Golf

Association Research Report... A special package on golf courses which have taken an environmentally pro-active stance... plus our usual complement of news and views.

...

As you may have read on page 36, GCSAA has significantly reduced its presence in Asia-Pacific. The same cannot be said, however, for *Golf Course News*.

Our sister paper, *Golf Course News Asia-Pacific*, has been named the Official Golf Publication of Singapore-based Golf Asia '94, the largest golf course industry trade show outside the United States, scheduled for March 24-27. *Asia-Pacific* served the same role at Golf Asia '93.

Meanwhile, *Golf Course News Asia-Pacific* has also been named Official Publication of the Pan Asia Golf Conference, Nov. 22-23, in Hong Kong. This is a purely educational symposium concentrating on golf course development on the Chinese Mainland.

...

Our friends at the University of Guelph will hold the Ontario Turfgrass Symposium Jan. 5-7, 1994. American readers in the Midwest may want to consider a trip north of the border.

Year in and year out, this proves to be a fantastic program, featuring professional development conferences accredited by the Canadian and American golf course superintendent associations. Dr. John "Trey" Rogers of Michigan State University is the keynote speaker this year.

For more information on the education program and trade show, contact Kelly Wilson, Office of Continuing Education, 159 Johnston Hall, University of Guelph, Guelph, Ontario, Canada N1G 2W1. He can be reached by phone at 519-824-4120, ext. 3814; or by fax at 519-767-0758.

...

Everyone here at *Golf Course News* wishes our readers a happy, healthy holiday season. See you in 1994.

Leslie comment: Landowners' rights

Continued from page 8

that's what they can afford, who am I to stop them? The other day I was talking to a fellow a mile away who lives in an ancient mobile home. He had bought a less-ancient mobile home and moved it onto his lot, only to discover that our town has outlawed mobile homes of a certain age. He must now dispose of his "new" home and continue to live in an eyesore because of this law.

Certainly the persons who wrote this law thought they were merely keeping the town from going the way of Hobo Village. They are nice folks, these law-writers. Heck, we don't allow not-nice people in my town. We've made them illegal. The sign-maker is probably busy right now creating signs to put up at the entry roads to our town, reading: "Do not enter if you are not nice, have an old mobile home in tow, plan to build two or more outbuildings, intend to raise pigs, if you drive a gas-guzzling vehicle, or if you're from Jersey City."

Seriously, land use **should** be controlled where the environment will be harmed. But we have to use some judgment as to what is tolerable. The newly formed Council on Property Rights (see story, page 1) could be the answer. According to founder David Lucas, former owner of Wild Dunes: "Anybody concerned about protecting private property in this country should be concerned enough to make a contribution to this [organization]."

Lucas claims the issue of land-use is not about environment. "It's pseudo-science and a bunch of no-growth advocates who don't want

anybody out there without the means to drive a Volvo anywhere near them... It's to keep minorities away from them. It's very hypocritical. It's fear-driven and the state legislatures go along with it."

He adds this intriguing thought: "The people who made this country fled poverty and lack of opportunity. There was no way to climb the social ladder in these other societies. And that's why they came here. So what are we doing today but closing off those same venues? We are trying to do what European and Asian govern-

ments have done in the past. Those governments were captured by special interests and run by special interests for special interests.

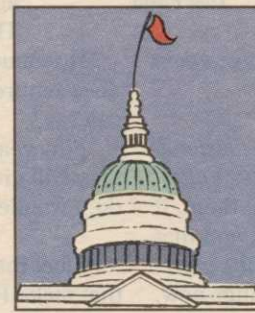
"America was a wide-open, free society. Now they're trying to put, under different guises, the same kinds of restrictions."

Although the country can't let developers run amuck, and although we can't build golf courses wherever we might like to because of the environment, Lucas **does** have a point. Generally, you cannot buy a piece of land and build low-cost housing. Rules, regulations and restrictions have made that possibility an oxymoron.

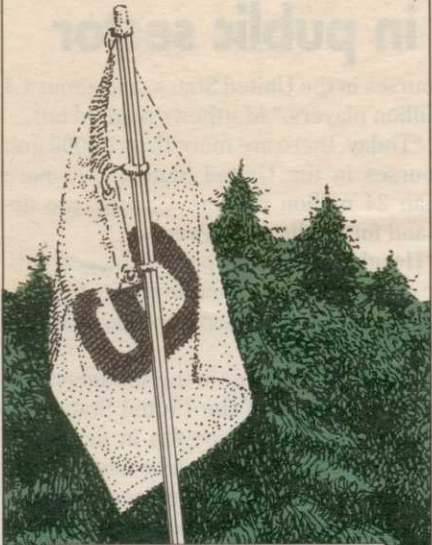
And, too often, no-growth advocates hold up projects in the courts for so long that the developers run out of money or patience.

A fellow by the name of Le Roi Jones once said, "The landscape should belong to the people who see it all the time."

I don't have any idea who Mr. Jones is. But I like his line of thinking.



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BRIEFS



BORAX ON WARPATH

CINCINNATI, Ohio — Turfgrass as well as agronomic issues will be addressed at the annual meetings here of the American Society of Agronomy, Crop Science Society of America and Soil Science Society of America, Nov. 7-12. For instance, research out of Iowa State University shows that 20 Mule Team Borax is the weapon to use against ground ivy, known as creeping Charlie, the scourge of mature, shaded turf areas. The meetings will be held at the Cincinnati Convention Center. More information is available from the societies at 677 South Segoe Road, Madison, Wis. 53711; 608-273-8080.

AGRISCIENCE, BIOTECHNOLOGY STUDIED

MADISON, Wis. — The U.S. Department of Education has awarded a \$456,780 grant to the National FFA Foundation to partially fund a study entitled Voluntary National Skills



Standards for Competency in Agriscience/Biotechnology. The 18-

month study, to be matched by the education, industrial and labor communities, will determine the skills employees will need in agriscience/biotechnology occupations. The goal is to develop voluntary educational standards in these fields which will lead to a better-prepared workforce.

TGIF LISTING ARCHITECTS

TGIF (Turfgrass Information File), the industry's largest single source of turfgrass information, has created a new listing containing members of the American Society of Golf Course Architects (ASGCA). Information from TGIF is available in hard copy or via a modem, and can be searched by author name, subject, etc. For additional information about TGIF, or the architects' directory, contact Nancy Donati, Medinah Country Club, Medinah Road, Medinah, Ill. 60157-9653; 708-773-1700, ext. 254, or Peter Cookingham.

RECYCLING PESTICIDE CONTAINERS

COLUMBUS, Ohio — Ohio State University instituted a pesticide container recycling program at its Turfgrass Research Field Day here Aug. 17. Superintendents could drop off their clean, empty pesticide containers, which Grower Service Co. will grind, granulating them for further processing. Eventually, they will be made into new containers or be put to other safe uses. The program was supported by OSU Extension, the Ohio Department of Agriculture and Ohio AgriBusiness Association.

GOLF COURSE NEWS

Are the seasons getting longer?

Superintendents in the transition zones say 'Yes'

By MARK LESLIE

Playing seasons are getting longer in some areas of the country, causing turfgrass damage of which many superintendents are not even aware.

"We have no winters," superintendent Russell Bateman said matter-of-factly of the five Baltimore Municipal Golf Courses.

"On Thanksgiving weekend at the end of November if you have days anywhere near 50 degrees, this place is packed," said Bill Neus of the semi-private Hobbits Glen Golf Course in Baltimore, president of the Mid-Atlantic Association of Golf Course Superintendents. "When I got into this business, after Labor Day

March
April
May
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October

November

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'Ten years ago we had 40,000 rounds a year. Now we're at 55,000.'

— Bill Neus

play just died. That's not even part of the equation any more.

"Ten years ago we had 40,000 rounds a year. Now we're at 55,000. On a mild winter weekend day we'll do 150 to 200

rounds of golf. And public courses will do more."

Play has gradually gone deeper into the winter and started earlier in the spring. The resulting problems are many.

"One major problem is that damage caused by winter play doesn't show until the heat stress of summer, and many superintendents don't associate it with using the course in the winter," said Jim Snow, national director of the U.S. Golf

Continued on page 18

Stone gets personal

Honors tests grasses in pursuit of the best

By PETER BLAIS

COOLTEWAH, Tenn. — Under stressful conditions in southeastern Tennessee, many new bentgrass varieties far outperform Pennncross, according to a Chattanooga-area superintendent conducting his own scientific field trials.

"You couldn't twist my arm far enough to make me seed a new course with Pennncross," said David Stone, head superintendent at The Honors Course.

Stone's assertion is based on two years of rigorous testing at his own facility. Stone's studies, in fact, remind United States Golf Association agronomist Pat O'Brien of the days when course managers routinely maintained their own test nurseries. There they grew many vegetatively propagated varieties of bentgrass to determine which performed best in their specific locale.

That practice started to disappear in the late 1950s with the appearance of Pennncross, the Green Section's Southeastern Region turf expert said. Released in 1955, Pennncross soon became the preferred bentgrass seed for golf course greens.

"It's the leading creeping bentgrass in the world today," said Tee-2-Green President Bill Rose, whose company produces Pennncross. "In some climates it's still the best."

With the abundance of new bentgrass varieties introduced in

Continued on page 15



Yount honored in Florida

The Florida Turfgrass Association (FTGA) has honored Executive Director Bob Yount, center, with its Wreath of Grass Award, given annually to a member who demonstrates commitment and hard work toward the association's goals. Charles Campbell of DowElanco Specialty Products presented the award, citing Yount's integrity and accomplishments over the years. The head of the FTGA since 1988, Yount was chairman of the 1987 Nestle Invitational Golf Tournament, general chairman of the 1991 USGA Junior Amateur Championship, and the board of directors for the Butler Chain of Lakes Conservation Association from 1982-84. Yount is flanked by his wife Phyllis and son Bobby Jr.

USGA reports on nationwide university research

Turfgrass safer than farmland, research studies confirm

By MARK LESLIE

Major university studies around the country are verifying the belief that turfgrass is a vast improvement to agricultural land in pesticide and fertilizer leaching, and researchers are even comparing differences between grasses in runoff studies.

The U.S. Golf Association Green Section's newly released annual Environmental Research Summary notes these findings along with many others in its review of USGA-funded research projects. The booklet reports results after the second year of the three-year studies.

Objectives of the overall project are to understand the effect of turfgrass pest management and fertilization on water quality and the environment; evaluate valid alternative methods of pest control to be used in integrated turf management systems; and determine

Continued on page 22



Environmental findings widespread, report says

From staff reports

Ten years and \$5 million after it was undertaken, new and better grasses that survive on less water and lower maintenance have been developed through the Turfgrass Research Program initiated in 1982 by the U.S. Golf Association (USGA) Green Section and Golf Course Superintendents

Association of America. So the USGA Executive Committee has committed its support for another five years, according to Jim Snow, Green Section national director.

Some 40 research projects improved knowledge about water-use rates of various turfgrasses and how these grasses react to moisture stress; introduced new grasses that use less water and pesticides; and forwarded understanding of maintenance practices.

Snow said: "Through the efforts of the individual turfgrass scientists and their support staff, many significant

Continued on page 22

November 1993 13

Sommerfeld, other supers find innovation on Jones Trail

By HAL PHILLIPS

BIRMINGHAM, Ala. — Nothing is written in stone at Oxmoor Valley Golf Club, where Marty Sommerfeld tends to 54 holes on the Robert Trent Jones Trail.

Sommerfeld is one of seven head superintendents looking after what will ultimately become an 18-course golf complex bestriding the Alabama landscape. Run by Sunbelt Golf Co., the venture originally gained notoriety for its innovative financing source: Alabama state pension funds. But its maintenance operation is equally unique and ever-changing.

"We really try to pool our ideas and resources to make the best business and agronomic decisions," Sommerfeld explained. "I think it's really a team concept here at Sunbelt Golf. We have very open lines of communication."

Of course, there are economies of scale. Buying 200 rakes and splitting them 18 ways, for example, is cheaper

than outfitting each course one by one. But the cooperation goes further than group buying.

When there's a drainage problem at Oxmoor, Sommerfeld picks up the phone and calls Ricky Huey down at the Jones Trail course in Mobile. Furthermore, Sommerfeld can't say enough about the

bentgrass knowledge of his Sunbelt colleagues. Everyone, he said, has benefitted from the healthy exchange of ideas on overseeding, aerifying and syringing techniques.

"We put lights on the aerifiers this year and did 36 holes in two days without interrupting play," Sommerfeld said. "We also share aerifiers. If I have a good idea in Birmingham, I pass it on. Most people are shocked to hear that."

Isn't there any rivalry at all?
"There really isn't. You have peer pressure — there's no doubt about it. But we know that if one site loses, we all lose. We're all on the same song sheet."

"The thing that can be tough sometimes is that no one has ever done what Sunbelt is doing. There's no textbook out there, so you almost have to pull everyone together to discuss the problems. Sometimes you have to learn by trial and error."

According to Oxmoor Director of Golf Kim Worrel, there is very little error. Further, Worrel appreciates Sommerfeld's in-house capabilities.

"Marty is so knowledgeable," said Worrel. "Not just from an agronomy standpoint, but from a construction standpoint, as well. He's seen it all."

"We just rebuilt the second green on the Valley course and Marty did the whole thing himself. That's quite a luxury."

Sommerfeld's familiarity with construction practices didn't happen by accident. His first job out of Michigan State's Turf Management Program was

with the Robert Trent Jones Sr.'s construction unit in Florida. When the Jones Trail needed superintendents, he was an obvious choice.

His route to the world of turf management, however, was a bit more circuitous.

Sommerfeld was raised in the northern Michigan town of Alpena, about 100 miles southeast of the bridge to the Upper Peninsula. Michiganders will appreciate the native description: "At the index finger of the right hand, laid flat," he said.

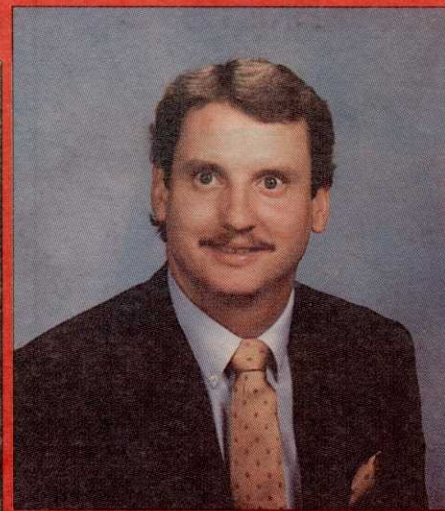
While earning his undergraduate degree in political science at the University of Michigan, Sommerfeld did some hand watering at a little nine-hole facility in Alpena. A friend at Grand Traverse Resort helped light the fire, and soon Sommerfeld was enrolled at MSU — though his football allegiance remains with Ann Arbor: "I was born with maize and blue in my blood," he said.

With his Spartan degree, he joined the Jones outfit in Florida. He eventually left to build and oversee the grow-in at the Country Club of the Legends in St. Louis.

When it looked as though the 18-course project would become a reality, the Jones people looked for one of their own.

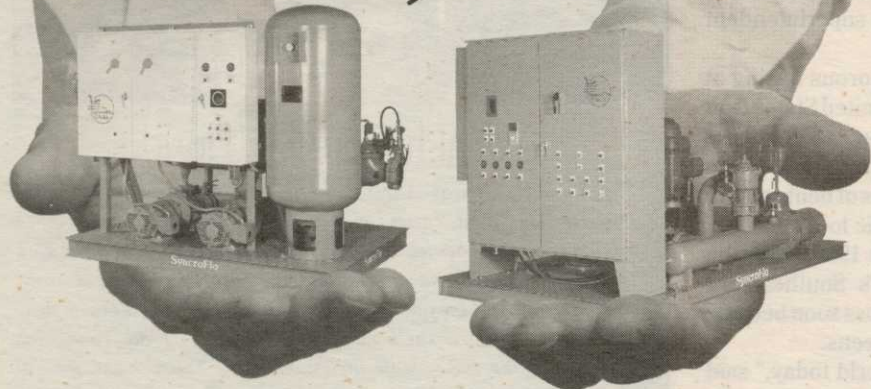
"It's really sort of a brotherhood with the Jones people, and that appealed to me," said Sommerfeld. "But what really sold me on this project was the motto: Golf for golf's sake. There are so many golf courses being built today, only for the real-estate value. Not here."

SUPER FOCUS



Marty Sommerfeld, above, is part of 16-course team on Alabama's Jones Trail. His charge is to maintain Oxmoor Valley Golf Club, left.

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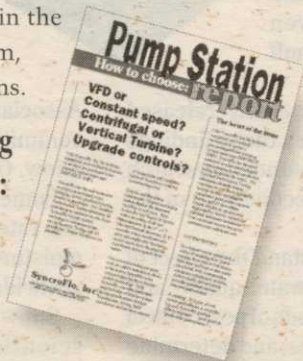
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Ohio turf show lines up speakers

COLUMBUS, Ohio — A lineup of leaders in the golf course industry will speak at the Ohio Turfgrass Foundation Conference and Show here, Dec. 6-9.

Following a full day of workshops on Monday, Dec. 6, the trade show will open Tuesday morning. Dr. James Watson, recently retired from the Toro Co., will kick off three full days of educational sessions at 1:15 p.m. on "Turfgrass in the Year 2000," followed by Richard Undersood of Space Panorama, a retired NSA official, speaking on "The Environment and Weather — Earth from Space."

Among the speakers will be Drs. Karl

Danneberger, Dave Shetlar, Ed McCoy, Bill Pound, Harry Niemczyk, Joe Rimelspach and Tom Stockdale of Ohio State University; Dr. Hank Wilkinson of University of Illinois, Champaign-Urbana.

Also, Drs. Trey Rogers and Bruce Branham of Michigan State University; Dr. Peter Dernoeden of the University of Maryland; Dr. Peter Landschoot of Penn State University; and Dr. Michael Hurdzan of Hurdzan Design Group in Columbus.

More information is available from Ohio Turfgrass Foundation at 2021 Coffed Road, Columbus, OH 43210.

Continued from page 13

the past few years, O'Brien believes many superintendents would benefit from establishing their own test nurseries to see what performs best in their specific area.

Stone decided to develop a test nursery after the hot, wet summer of 1991 left his Pennncross greens fighting for survival.

"They weren't performing up to their normal standards," Stone recalled. "The nursery green thinned out very badly. We thought this would be a good time to take a look at some of the new bentgrasses that were supposed to outperform Pennncross."

Stone contacted a number of seed companies. They provided him with 27 different bentgrass varieties, which he planted in 3-by-5-foot plots at the rate of one pound per square foot.

With the help of University of Tennessee Professor Tom Samples, Stone developed two test areas. One was in the shady (bentgrass' worst enemy) former nursery and the second in a more favorable sunny site.

To discover which varieties performed best under all conditions, Stone subjected both areas to extraordinary stresses, including daily 9/64-inch mowing, rolling and overwatering.

"I was always disappointed in university trials," Stone explained of the additional measures. "They do their best. But they just don't have the resources to mow every day or perform the maintenance practices golf courses do."

O'Brien agreed. The Green Section agronomist works out of the University of Georgia Experiment Station in Griffin, which is conducting bentgrass trials of its own.

"They just don't have the staff here to mow at that height every day," O'Brien said. "And none of the plots test for shade tolerance."

Rose also criticized existing seed trials.

"The National Turf Trials really aren't a fair evaluation," he said. "They should be better and I understand they will be this year. That's why we tested Pennlinks (another Tee-2-Green product) on actual golf courses."

Stone and Sample evaluated the samples for visual appearance and texture throughout 1992 and 1993. They paid particular attention to density measurements during the hottest months of July and August, when differences are most significant.

What surprised them most was Pennncross' poor showing compared to newer grasses.

"So many varieties performed better than Pennncross," Stone said. "It did so poorly, in fact, we wondered if the seed might have come from old fields. It didn't even do as well as the Pennncross that is already on our greens."

Added O'Brien: "It's interesting to note that the Pennncross on the course is doing very well. If you have an excellent superintendent, like Dave, who does a top-notch

job on his course, then existing Pennncross greens are still very good. But when you put Pennncross under daily stress — like low cutting, rolling and shade — it doesn't perform as well as some of the newer varieties."

Rose said Pennncross performs best on high-wear areas, like tees and landing areas. Pennlinks is better for greens and Penneagle for fairways, he added.

A variety called Crenshaw has been the top performer, Stone said. Lofts Seed Co. holds the

Universities do their best. But they just don't have the resources to mow every day or perform the maintenance practices golf courses do.'

— David Stone

rights to Crenshaw, which was developed by Dr. Milt Engelke at Texas A & M University.

"It's a fine-textured, dark-green grass that recovers fast and is extremely dense," Stone said.

"Dave told me to try to pick out the Crenshaw plots," O'Brien recalled. "I walked to them immediately. There were four plots and I was 4-for-4. It stood up extremely well to all stresses."

But there is no perfect grass. Even Crenshaw had weaknesses.

"[Left untreated] It was one of the worst for dollar spot and had a lot of brown patch when we didn't treat it," Stone said. "But it always

grew denser than the others if we sprayed it and knocked the disease out."

Other strong performers, Stone reported, were Johnson Seed Co.'s 18th Green ("It had no brown patch and excellent heat tolerance, but was the worst for dollar spot.") and Seed Research of Oregon's SR 10/20 ("It's similar to Crenshaw, but doesn't perform quite as well in the shade.").

Stone plans to maintain the test nurseries into the foreseeable future. He will use Round-Up to kill off some of the poorer-performing varieties and replant newer strains next spring.

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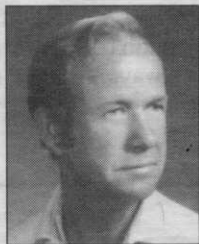
Tour of Duty

JAMES ARLIN GRANT
Innisbrook Hilton Resort
 Tarpon Springs, Fla.
JC Penney Classic
 Dec. 2-5, ABC/ESPN

James Grant is a 23-year veteran at Innisbrook, where the vice president of grounds maintenance oversees 63 holes, 1,000 acres and 140 employees.

He was involved with construction of The Island (1970), Sandpiper (1972) and Copperhead (1973) courses.

A native of Chattanooga, Tenn., he spent eight years at nearby Valley Brook Golf Course and a year at Royal Poinciana Golf Club in Naples, Fla., before coming to Innisbrook. Grant holds a two-year certificate in turf management from Mississippi State University.



J. Arlin Grant

THINGS TO LOOK FOR: This is the fourth year the Copperhead course will host the male/female team event.

RUBEN RAMIREZ
Big Horn Golf Course
 LaQuinta, Calif.
Skins Game
 Nov. 27-28, ABC

Ruben Ramirez broke into the golf course construction business as an irrigation installer, eventually working his way up to foreman. Noticing the work was steadier, he decided to become a course superintendent and enrolled in The College of the Desert's two-year turf management program. Ramirez helped build several Palm Springs area layouts, including The Vintage Club and the three courses at LaQuinta Hotel Golf Course.



Ruben Ramirez

He arrived at Big Horn as construction superintendent in 1989 and later became head superintendent.

THINGS TO LOOK FOR: Big Horn includes 72 acres of turf and 46 acres of desert landscape. Ramirez installed drip irrigation in the desert portion. More expensive than conventional irrigation, a drip system saves water and minimizes weeding of grass

The rolling hills and huge pine trees are reminiscent of western North Carolina and make the course more challenging to maintain than a typical western Florida layout, Grant said. Grant's biggest maintenance headache is mole crickets. The pesky insects eat up \$50,000 of insecticide and hundreds of man-hours each year.

Innisbrook fortunately was north of Hurricane Andrew, which devastated southern Florida last August.

But a no-name storm packing 80-mph winds toppled 70 large pine trees on March 13. Fortunately, most were well out of play and the damage won't be evident to television viewers, he said.

MADE-FOR-TV PREPARATIONS: Grant said preparation for the Classic is fairly routine. Rough heights are raised to 2 inches.

Riding mowers are put aside and greens instead hand-mowed two or three times daily beginning six weeks before the tournament. Compactors are used to tap down traps.

encroaching on the desert. Golfers frequently enter the desert in search of errant shots. Ramirez' 20-man crew hand rakes and brushes those areas every two weeks to maintain a natural, windswept look.

Television cameras don't capture Big Horn's elevation change, 300 feet from its lowest to highest point. That elevation change makes cart paths the only way for maintenance vehicles to reach some points on the course.

It also slows maintenance work, forcing the maintenance crew to complete work on holes 1 through 8 before the first golfer normally begins play.

MADE-FOR-TV PREPARATIONS: Because of possible scalping problems on the steep aprons leading up to some elevated greens, Ramirez will forsake the triplex mower in favor of Flymos and hand-held weed whackers for the three weeks prior to and during the tournament.

Of the four golfers in the Skins field, "John Daly is the one who scares me," Ramirez said. "It will be interesting to hear what he has to say. Some of his drives will be out of the fairway."

"At 275 yards there will be rocks that he'll have to drive by. We'll do some things to try to take the driver out of his hands."

BILL HAMILTON
Sherwood Country Club
 Thousand Oaks, Calif.
Franklin Funds Shark Shootout
 Nov. 18-21, CBS/ESPN

Bill Hamilton started his turf career caring for lawns, but not just any lawns. His first job after graduating with a four-year agronomy degree from Texas A & M University was maintaining the grounds at Jack Nicklaus' North Palm Beach, Fla., home. Hamilton later worked at several Golden Bear golf facilities and had a brief stint with Landmark Land Co. before arriving at Nicklaus-designed Sherwood three years ago.

THINGS TO LOOK FOR: Hockey star Wayne Gretzky. The Great One is among the many famous members of this exclusive private club and is likely to be among the gallery. Despite its near-desert location an hour north of Los Angeles, Sherwood Country Club is a cool-season turf layout. Bentgrass graces tees, greens and fairways with bluegrass inhabiting the rough. "It's tough to grow grass here when its 100 degrees with 95 percent humidity," Hamilton said one late September afternoon. Reclaimed water is used for irrigation and has caused some salt problems in the past. Additional vertidrainage and deep-tine aerification have improved conditions this year. "We've learned from our mistakes," Hamilton said. "November should be a perfect time for our cool-season turf."

MADE-FOR-TV PREPARATIONS: The deep-pocket make-up of Sherwood's membership allows Hamilton to keep the course in tournament condition the year round. About the only accommodation to the PGA Tour will be a higher cut in the rough. "But with the best ball/alternate-shot/scramble format, I don't expect them to be playing out of the rough too often," Hamilton said.

Envirotron lab opening Nov. 19

GAINESVILLE, Fla. — Envirotron, the turfgrass research laboratory at the University of Florida, will be dedicated Nov. 19, beginning "a new era of scientific research for the Florida turf industry."

The dedication climaxes more than two years of construction of the facility which is expected to yield invaluable information on the relationship of turfgrass with biological, environmental and cultural factors, according to Florida Turfgrass Foundation Director Bob Yount. Primary goals will be study of the aspects of turfgrass culture and the impact of turfgrass on temperature modifications, noise abatements, pollution filtration and water purification.

The 31,000-square-foot field lab includes student housing to allow the university to recruit top turf scholars. The Dr. G.C. Horn Endowment will fund scholarships.

Envirotron has been funded by \$350,000 raised by the Florida Turfgrass Research Foundation, and by moneys from the state of Florida Capital Facilities Trust, Florida Golf Course Superintendents Association and other private organizations, clubs and individuals.

...

HOMMOSASSA SPRINGS, Fla. — The inaugural Envirotron Golf Classic held at World Woods Golf Resort raised \$22,500 to benefit turf research.

The Seven Rivers Chapter of Florida Golf Course Superintendents Association, led by President Glen Oberlander, developed the tournament concept. Oberlander challenged members to put together the largest single-day event in the state of Florida, with proceeds generated to support the purchase of equipment needed for the Envirotron facility in Gainesville.

The World Woods Golf Resort owner, Mr. Inoue, donated the Pine Barrens course for the four-man scramble, which drew 196 players and grossed \$35,000. Major sponsors for the event also included LESCO and AG Resources/Helena Chemical.

Contributions for the Envirotron facility should be directed to FTGA at 302 S. Graham Avenue, Orlando, Fla. 32803. For more information, call 800-882-6721.

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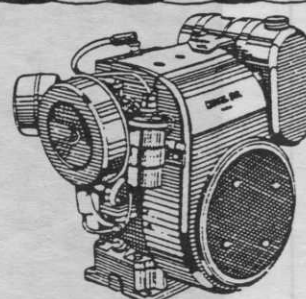
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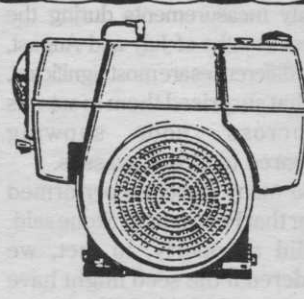
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GCSAA initiates financial aid emergency fund

LAWRENCE, Kan. — A new fund created by the Golf Course Superintendents Association of America (GCSAA) Scholarship & Research (S&R) Foundation will offer emergency financial assistance to association members who are suffering personal losses resulting from natural disasters like the recent Midwest flooding.

"This is a significant new benefit for our members," said GCSAA President Randy Nichols, CGCS. "Superintendents have always banded together to help when disaster strikes. This fund will allow us to offer immediate help to our colleagues."

The GCSAA Emergency Assistance Fund is designed to provide an immediate grant of up to \$250 to GCSAA members who need short-term financial help to compensate for personal losses resulting from a disaster.

The GCSAA board of directors voted unanimously to establish the fund with a \$5,000 "seed" gift, and a number of chapters are planning gifts to supplement the fund. The GCSAA S&R Foundation is urging individuals and companies to make "one-time" gifts to build the fund. "Our goal is to raise about \$20,000 for this to make it a permanent fund that carries over from year-to-year," said Nichols.

Lakeshore Equipment Supply Company, better known as Lesco, Inc., has donated \$5,000 to match the "seed" gift made by the GCSAA board of directors when the association established the fund.

To apply for emergency funds, members should contact their chapter presidents or call GCSAA Scholarship & Research at 700-472-7878.

Donations may be sent to GCSAA Development Department, P.O. Box 927, Lawrence, KS 66049-0927.

Maintenance budgets, trends unveiled

The 40-page National Golf Foundation report, "Understanding and Comparing Maintenance Budgets," presented many findings from its study of golf courses around the United States. Some are:

SOUTHEAST

- Many golf course owners are improving the operation of their facilities by rebuilding greens and installing modern computer-controlled irrigation systems.
- The need to keep up with the demands of higher traffic, long playing seasons, and better quality turf have resulted in the golf course reconstruction boom.
- Labor and maintenance budgets tend to be higher than most other regions of the country because mild temperatures demand year-round maintenance of turfgrasses.
- Consumptive water-use permits for the use of wells or canal water are becoming very restricted.
- The trend to use cool-season turfgrasses in Florida and other coastal areas has steadily increased since 1980.
- The popularity of winter overseeding has brought cool-season grasses to the South.
- Overall budgets range between \$309,000 and \$940,000.

MIDWEST-NORTHEAST

- Course upgrades generally include tee leveling or new tees; sand bunker refurbishing or new bunker placements; green reconstruction; and irrigation system modernization.
- Golf course budget continue to increase. Course operators and owners are aware the demand for better conditions costs more money. The main cause of increased budgets is the size of the maintenance crew. The average size of a year-round crew is eight to 11 laborers plus the superintendent, assistant superintendent and mechanic. In the past, the total year-round staff was usually seven to 10.
- Overall budgets range between

\$201,500 and \$625,000.

- Most facilities reported capital improvement and equipment replacement budgets of at least \$35,000.
- Superintendents have adopted practices to maintain poa annua rather than remove it from the course.

NORTHWEST

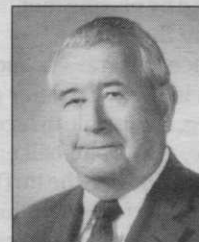
- Sand-based putting greens are now widely accepted and most of the new construction is based on the U.S. Golf Association recommendations.
- Many Western courses are now involved with overseeding programs with improved perennial ryegrasses on fairways, tees and roughs in combination with cultural practices to combat poa annua invasion. Some courses are overseeding with bentgrass.
- The improvement in perennial ryegrasses over the past 10 years has had a dramatic effect on courses in the Pacific Northwest.
- Some courses started using green aerifiers on fairways in combination with overseeding programs. Others are now emulating the success of these programs.
- Increased use of walking greens mowers, triplex or lightweight mowing of fairways, and other factors have increased labor costs at the upper end of the market.
- Overall budgets range between \$210,000 and \$998,000. Variable water costs, especially in California, impact overall budgets greatly.

SOUTHWEST

- The use of USGA-recommended sand-based greens is critical in this region due to heavy play and the use of more saline and effluent water sources.
- A facility can range in maintenance costs from \$400,000 to \$1.2 million, depending on location, season length, water cost, employees, clients' demands, and cost of power and materials.
- Labor costs range from 38 to 67 percent of the total maintenance budget.
- Budgets range from \$488,000 to \$1 million.

New fellowship will honor James Watson

LAWRENCE, Kan. — Outstanding scientists and educators of tomorrow will receive encouragement and recognition through a new fellowship program named for leading green industry member, James R. Watson.



James Watson

The Toro Co. has agreed to fully underwrite the Watson Fellowships, a new program named for leading green industry member, James R. Watson. The Toro Co. has agreed to fully underwrite the Watson Fellowships, a new program named for leading green industry member, James R. Watson. The Toro Co. has agreed to fully underwrite the Watson Fellowships, a new program named for leading green industry member, James R. Watson.

The equipment manufacturer has agreed to a minimum of \$100,000 in support over the next four years, and senior company officials say they hope to make the commitment ongoing.

Ken B. Melrose, chairman and chief executive officer of The Toro Co., said: "We are delighted to be a part of a program that will help build a stronger future for the golf course industry and be able to pay tribute to the contributions Jim Watson has made to this company. It's a great way for us to reinvest in something that is important to our professional customers and recognize a man who is very important to us."

Watson a longtime Toro executive, is semi-retired after 40 years with the company. He will serve as chairman of the fellowship selection committee.

The agreement allows GCSAA's S&R foundation to expand and upgrade the GCSAA Graduate Student Grants program announced earlier this year. With Toro's sponsorship, the number of \$5,000 fellowship grants available has been doubled to four.

GCSAA members will vote on amendments to membership bylaw

Continued from page 1

bers who feared last year's proposal to expand membership to others in the golf industry was taking the focus away from the superintendent.

This year's proposal is to "maintain the current requirement for a two-thirds majority vote to alter the qualifications and levels of privilege for Classes AA, A, B and C, while authorizing the board of directors to develop Standing Rules regarding the qualifications and levels of privilege for other membership classifications."

Explained GCSAA President Randy Nichols of Cherokee Golf & Country Club in Dunwoody, Ga.: "It's more of an accounting thing than anything else. We're not going to go out and solicit non-superintendents for our association. But we want to be able to recognize and distinguish the non-superintendents. We want to be able to say 'This guy is a mechanic, so we can begin to offer him some services.'"

Other membership amendments call for:

- Simplifying the determination of Class

B and C qualifications by making all superintendents with less than three years experience Class B members and all assistant superintendents, regardless of experience, Class C.

- Adding six new membership categories for other golf course maintenance and management personnel, club officials, golf association staff members, educators and extension officers. All are currently assigned to Affiliate or Associate classifications. The board would establish Standing Rules regarding qualifications and levels of privilege for such classifications.

Last year's bylaw proposals to change from a two-thirds to simple majority vote on bylaw changes and eliminating delegate voting in favor of a one-member, one-vote format have been dropped.

But to make delegates more accountable to the membership, the board is proposing an amendment "requiring the printing, in a GCSAA membership publication, of an official, post-election report of voting records by chapter name, and by totals of individual votes and totals of proxy votes. If

approved, the amendment would not take effect until the 1995 annual meeting.

Other amendments addressing accountability call for a two-thirds majority of the board to approve mortgages or loans that would obligate future boards, and making the submission of false information on membership applications or dues statements grounds for discipline or expulsion from GCSAA.

One other major proposal would change the secretary/treasurer position from a presidential appointment to an elected office. The secretary/treasurer has traditionally been a springboard to the presidency two years later.

A major criticism prior to last year's bylaw vote was the proposed changes had not been adequately explained to the membership, even though board members personally addressed many, if not all, the state chapters.

To improve communications this time around, the board invited chapter representatives to a late-September summit meeting at GCSAA headquarters here. The

proposed bylaw amendments were discussed, along with the many upper-level staff changes that have occurred in recent months.

"A milestone in GCSAA's history," was how GCSAA Vice President Joseph G. Baidy of Acacia Country Club in Lyndhurst, Ohio, described that meeting. Baidy served as chairman of both the delegates meeting and the Planning Resource Committee, which first met in May to begin deliberations of possible amendments.

"I was very pleased with the excellent response and discussion from the delegates and chapter representatives," he said.

"The consensus of the delegates was that these proposals go to the Bylaws Committee so they can be brought to the floor at the annual meeting. [The delegates and chapter representatives] are going to take the information back to their chapters and request their input."

Sample ballots, with exact text for each proposal, will be mailed in December to all voting members as part of the official Notice of Annual Meeting.

Longer seasons mean agronomic problems in transition zone

Continued from page 13

Association Green Section.

"Winter play does severe harm to the grass. You compact the soil and you have weeds and poor water infiltration. People wonder why and associate it with summer problems instead of being caused by playing months before, during the winter."

Since turfgrass is mostly dormant in the fall, winter and early spring, it is unable to recover from traffic, divots and ball marks during that time. So the turf thins out, leaving perfect conditions for infestation of poa annua and weeds like goosegrass and crabgrass, Snow said.

Neus said that while Hobbits Glen has always remained open year-round, the level of maintenance is noticeably different now.

"If the traps aren't frozen, they [members] expect them to be raked in January and February. They want the course as prepared as possible. We have a few winter greens that we mow and roll periodically," he said.

Added Bateman: "We're open 364 days a year. Even New Year's Day is big if it's decent weather... Our mission is to provide golf."

WINTER PLAY PROBLEMS

But providing golf has its drawbacks.

Divots, Neus said, are a massive nuisance.

"In a mild winter the landing areas get like land mines," he said. "Golfers need to take more care in the winter and they don't. Ball marks are also big problems. Along with divots in the fairways, they exacerbate the problem of poa annua when you have traffic. In a mild winter poa annua will continue to germinate and it grows into those areas..."

Since thinning and soil compaction leave a green open to poa annua encroachment, "this can be disaster if you're trying to grow bentgrass greens," said Snow. "If at all possible, try not to use the greens during the winter. Play on temporary greens."

Because more work is required to maintain courses in the winter, less time is available for normal wintertime work and a larger crew is necessary come spring, Neus said.

"Traditionally, wintertime has been our off-season when we've done tree and drainage work — non-maintenance things," he said. "Now you have to mesh it [non-maintenance work] in, whereas before you could almost go out with blinders on, not worry about the rest of the course and focus on projects."

More part-time help is also required. "Now I have a couple of part-timers right through the wintertime," Neus said. "It does make your full-time staff so much more critical. If you don't have an adequate staff, a lot of things won't get done."

"Then you run into snow. That

can screw things up, too."

BUTTING HEADS

While using temporary greens would solve many of the headaches, they are often politically incorrect in the clubhouse.

"Golfers just don't want that. When they come out in January they want to play the whole golf course. You're always butting heads," Neus said. "I don't like playing on a temporary green, either. So I understand. But it's a hard sell that winter golf is one of

the most detrimental things you can do. There's nothing good about it for the turf."

"Avid winter golfers will hang petitions in the locker room to keep the greens open. They rant and rave at green committee meetings. They don't want to hear that they are damaging the course. To them, it's a crock."

CHANGE IS PERMANENT

It does not appear this trend toward longer seasons will reverse. Terry Buchen, superintendent at Double Eagle in Galen,

Ohio, attributed it to several things that evolved in the 1970s. Golf club members never used to play other courses, he said. "Then, in the '70s, they started, and they compared. Secondly, seasons are longer. Even in true Northern climates like Chicago and upstate New York. People get cabin fever. When you get one week of fine weather in the spring, members say, 'Why can't we play?'"

"Members also want to get their money's worth. Another reason

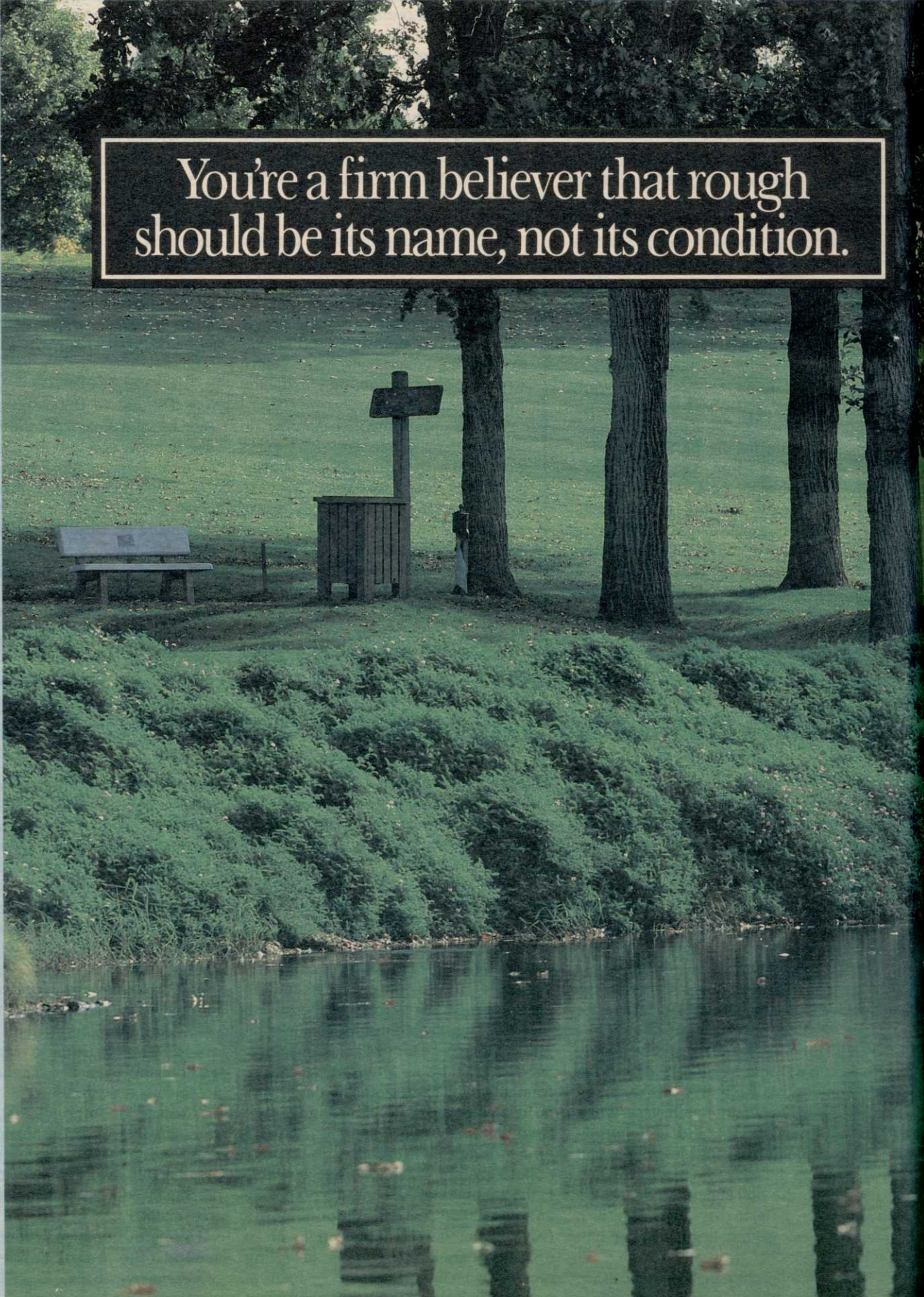
is that people sit in their living rooms in the second week of April and see the Masters on television, and want to



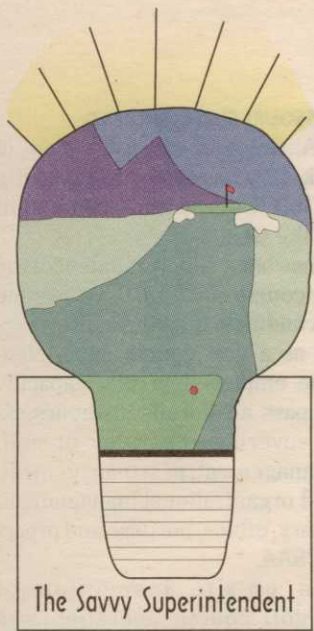
Bill Neus

Former Oregon Golf Course Superintendents Association

Continued on next page



You're a firm believer that rough should be its name, not its condition.



The Savvy Superintendent

Super's construction responsibilities specific but varied

By TERRY BUCHEN

The responsibilities of a golf course superintendent during course construction are many and varied. Here are the most crucial:

1. Communications: Act as a liaison and owner's representative between the course architect, builder, sub-contractors and the owner/developer on the construction site.

2. Specifications: Work with the course architect in preparing construction specifications, with the owner's best interests,

objectives and budget constraints in mind.

3. Irrigation: Work with the irrigation system designer in developing the sprinkler system with the owner's and architect's best interests and budget in mind.

4. Budgets: Prepare the following budgets for the owner:

- a. Grow-in maintenance budget.
- b. Post grow-in maintenance budget.
- c. Capital golf course maintenance equipment budget.
- d. Capital golf course

maintenance building structure and contents budget.

e. Capital golf course accessories budget.

5. Design: Work with the owner's building architect to develop the floor plans and objectives for:

- a. The golf course maintenance building, soil storage and irrigation pumphouse.
- b. A rain shelter and rest rooms on course.
- c. A snack bar and halfway house on course.

6. Photographs: Take photographs of all irrigation drainage work, and initial golf course construction as a permanent file for the owner.

7. As-builts: Help the golf course contractor and sub-contractors prepare permanent as-built blueprints of all construction activity, such as irrigation, drainage, underground utility lines, utility conduits, and anything else buried on site.

8. Environment: Coordinate environmental impact studies.

9. Helping hand: Assist the total effort by: locating local sod sources, building a permanent putting green for the marketing department, testing the sand-soil mix for the greens, obtaining bids by contractors, making final selection of a contractor, scheduling construction, installing electricity for the irrigation pumphouse as soon as possible, hiring a staff and growing in the course as soon as possible.

Be friendly and cooperative with the owner, architect and contractor.



Roughs can be beautiful.

And playable. If you've

got the time. Toro's

Groundsmaster® 455-D

cuts that time in half.

Because it's the first

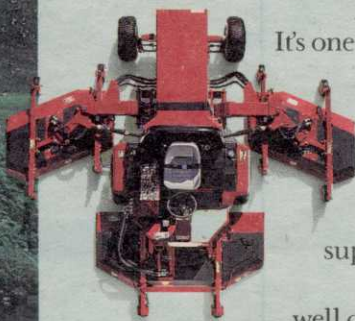
rotary mower designed

specifically for golf course roughs.

Extremely maneuverable, it gives you a consistently superb quality of cut at higher heights. Even around trees, bunkers and other obstacles. That means you have more time to spend on other areas of your course.



Groundsmaster® 455-D.
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Hagy joins Diamond Run

PITTSBURGH — Richard A. Hagy has been appointed superintendent at Diamond Run Golf Club.

Hagy began his career in golf course maintenance at the famed Augusta National Golf Club in Augusta, Ga., home of the Masters. Following his seven-year stint at Augusta, Hagy accepted the position of assistant golf course superintendent at Woodcrest Country Club in Cherry Hill, N.J. in 1988. He then accepted a similar position at The Club at Nevillewood, in suburban Pittsburgh, in 1991.

Longer seasons

Continued from previous page

President Mark Snyder, of Salishan Lodge Golf Links in Gleneden Beach, Ore., said: "It is safe to say, the Northwest reflects many other areas of the country in terms of increased play. Typically, it is very weather-related. If the weather's nice, the parking lot is full. If not, it's empty."

CONTRAST AND COMPARE

Yet, if superintendents want to debate closing their courses, they might present evidence from one New Jersey municipal facility.

Snow said this 36-hole facility had severe goosegrass problems in the summertime and decided to close one 18-hole course during the winters. "The difference between the greens was unbelievable," he said. "The goosegrass almost went away on the one course, while the other continued to have severe goosegrass problems. It dramatically illustrated the effects of thinning on the turf."

Northeast

PHRAGMITE FIGHT CONTINUES

The Delaware Division of Fish and Wildlife is making matching-grant funds available to landowners to combat

phragmites, a fast-growing, extremely hard reed which has taken over large areas of wetlands in the state.

Phragmites, which are forcing out other valuable plants, have an extensive root system and can present a fire hazard during the winter.

The DFW is accepting applications from landowners who want to join the program and set up a two-year herbicidal treatment. Research has shown that phragmites can be controlled in most areas by spraying the Monsanto's Rodeo herbicide during the late summer over two consecutive years.

Under the cost-share program, the landowner will pay about \$30 per acre for the first year's treatment and \$19 per acre the second year. From five to 200 acres are allowed. Approximately \$55,000 is available this year. Last year, more than 600 acres were treated.

PINIELLA KEYS N.Y. EVENT

ROCHESTER, N.Y. — The New York State Turfgrass Association in cooperation with Cornell University has announced that Lou Piniella, manager of the Seattle Mariners, is the keynote speaker for the annual Turf and Grounds Exposition. The conference will be held at Riverside Convention Center, Nov. 9-12. Piniella will address the attendees at 9:30 a.m. on Wednesday, November 10.

The Turf and Grounds Exposition provides turfgrass professionals with a chance to sharpen their skills, find solutions to their problems and network with peers. The 1992 conference set a record with over 1,700 attendees and 300 trade show booths. This year's program includes seminars on Nov. 9 and split sessions Nov. 10-12.

Pesticide applicator recertification credits are available for New York, Vermont, New Hampshire and Pennsylvania. C.E.U.'s from the Professional Grounds Managers Society, International Society of Arboriculture, the Golf Course Superintendents Association and the New York State Parks and Recreation Society are awarded.

The seminars area Turfgrass Management: Back to Basics, featuring Cornell and SUNY faculty; Residential Landscape Design, presented by leading practitioners; Risk Management, presented by Dr. Frank Rossi; Regulatory Issues involving federal motor carrier regulations and spill prevention, containment and clean-up; and Irrigation Efficiency, presented by Dr. Ken Solomon, Center for Irrigation Technology. Registration for the irrigation seminar only is through the GCSAA (call 913-832-4444).

The complete conference program, registration form and exhibitor registration information are available from NYSTA, P.O. Box 612, Latham, NY 12110; or call 1-800-873-TURF or 518-783-1229.

Mountains

ARBORIST FEATURED IN WYOMING

CASPER, Wyo. — Dr. Alex L. Shigo, an internationally renowned arborist, will be featured at two sessions at the Wyoming

Groundskeepers and Growers Association's (WGGA) Annual Conference and Trade Show here, Jan. 26-28.

Shigo will speak from 9 a.m. to noon and 1:30 to 4 p.m. Jan. 27.

The show, at the Casper Events Center, will also include talks on athletic field drainage, equipment repair and maintenance, irrigation, turf maintenance, playground equipment, safety, and the Americans with Disabilities Act.

More than 50 exhibitors are expected.

More information is available from Tammy Young of WGGA at 307-637-7060.

North Central



ILLINOIS TURF SHOW SET

ST. CHARLES, Ill. — More than 40 turf specialists, 16 idea-filled workshops and 150 exhibits of new turf products and services will be featured when the Illinois Turfgrass Foundation holds the 10 anniversary North Central Turfgrass Exposition (NCTE), Nov. 29 to Dec. 1, at the Pheasant Run Resort here.

"This year's exposition will have something for everyone," said ITF President and NCTE Chairman James D. Ashby. "The exposition will address the needs of seasoned turfgrass professionals and will include four sessions of a 'Back to Basics' program being given as part of a comprehensive educational certification program being developed by the ITF.

"The program is part of what ITF hopes will become a vehicle for accreditation in the area of turfgrass management."

The NCTE will feature sessions addressing the needs of golf course mechanics and superintendents, sports and non-sporting turfgrass managers, landscape contractors and designers and lawn care professionals.

On Tuesday, Nov. 30, association President James Ashby will present the winner of the 1993 ITF Distinguished Service Award during a special ceremony to be held during the afternoon NCTE General Session.

Registration and program information for the North Central Turfgrass Exposition may be obtained by contacting Nancy Jones or Jack Lagershausen at the Illinois Turfgrass Foundation, One Illinois Center, 111 E. Wacker Drive, Suite 200, Chicago, Ill. 60601-4298; telephone 312-616-0800.

MISSOURI SUPER CERTIFIED

William A. Bologna, superintendent of Hodge Park GC, has been designated a Certified Golf Course Superintendent (CGCS) by the GCSAA.

Bologna has been superintendent of the Kansas City course since 1989. To become certified, a candidate must have five years experience as a golf course superintendent and be employed in that capacity. They must pass a rigorous six-hours examination covering the rules of golf, turfgrass management, pest management, financial and organizational management, and the history, ethics, purpose and procedures of GCSAA.

Also, an on-site inspection of Bologna's golf course operation was conducted by two currently certified superintendents-Kalman Horvath, CGCS, of Overland Park; and Nels Lindgren, CGCS, of Kansas City.

KANSAS STORAGE TANK LAW PASSED

The Kansas Department of Health and Environment (KDHE) has adopted new regulations requiring owners and operators of above-ground storage tanks to register and obtain a permit to continue operation of the tanks after Jan. 1.

Most tanks larger than 660 gallons and which contain petroleum or hazardous products are covered by the law.

Exempt are tanks smaller than 660 gallons, ones that are used for agricultural chemicals such as fertilizers and pesticides, and those which contain compressed gases such as propane.

The state Legislature in 1992 passed a storage tank act requiring the KDHE to set up and operate a trust fund to help tank owners pay for environmental cleanups when petroleum products are spilled or leak from tanks.

The agency must also obtain information about the location, ownership, and contents of storage tanks, and to adopt federal standards for installation, maintenance and operation of tanks.

The regulations will affect some 6,000 to 8,000 tanks statewide, KDHE officials estimate.

TOP RATED HARD FESCUE

Genetic Color

Ratings Of Hard Fescue Cultivars (1-9=dark green)



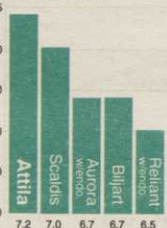
Canopy Height

Of Hard Fescue Cultivars (in inches)



Leaf Spot Ratings

Of Hard Fescue Cultivars (1-9=no disease)



1991 NTEP Data

ATTILA HARD FESCUE HAS:
LOW MAINTENANCE
LOW FERTILIZER REQUIREMENTS

**EXCELLENT COLD TOLERANCE
GOOD DROUGHT TOLERANCE
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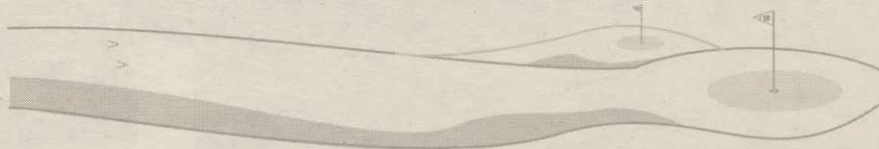
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HARD FESCUE

Attila gives you all of the benefits you would expect from a Hard Fescue, and more. In fact, Attila showed its superiority over other popular varieties in recent national tests. Attila was #1—had the darkest genetic color rating of Hard Fescues. And Attila was #1 in winter color of all Fine Fescues, including Hards, Fine and Chewings!

What drives a man who constructs golf courses?



The love of golf. The pride of a job well done.

And what's his tool of preference? The Dyna-Drive™ rotary surface cultivator. Of course.

John Cotter, president of Wadsworth Golf Course Construction Company, Plainfield, Illinois, is proud of Wadsworth's work. Some of that pride is because of the Dyna-Drive.

John says this about Dyna-Drive. It follows the contours of a course better than a disk. It doesn't compact the soil like heavier equipment. It's sturdy, built to last. And it pulls with only an 80 horse tractor.

Maybe that's why Wadsworth owns five of them with more on

order. He adds that more people would buy Dyna-Drives if they could see them in action and that architects, engineers and designers should specify them. We appreciate his honesty.

We can't add much to John's comments except its tines are self-cleaning, and it comes with no PTO, wheels, axles, tires or gearbox so it's truly low maintenance.

See one for yourself and get on the right course. See your local dealer or contact:



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Southeast

SLATE OF NOMINEES READIED

Nominees for the Georgia GCSA board of directors have been selected for 1994. Elections will be held at the GGCSA annual meeting, Nov. 7-9, at Kiawah Island Resort, Kiawah Island, S.C. Candidates include Chuck Underwood, CGCS, Northwood Country Club (incumbent); Steve Wilson, CGCS, Druid Hills Golf Club (incumbent); Debra Clark, GCS, Brickyard Plantation; Sam Crowe, GCS, Monroe Golf and Country Club; Craig Ketelsen, GCS, Orchard Hills Golf Club; and Wade Thomas, GCS, Indian Hills Country Club. Four candidates will be selected.

The present board of directors includes President William Shirley, CGCS, The Idle Hour Club; Vice President Mark Esoda, CGCS, Atlanta Country Club; Immediate Past President Mark Hoban, CGCS, The Standard Club; Jim Dusch, GCS, Atlanta National Golf Club; Ralph Hinz, GCS, The Landings; Bob Perry, GCS, Griffin Country Club; Franz Workman, CGCS, Valdosta Country Club; and the aforementioned Chuck Underwood and Steve Wilson.

For further information contact Karen White, executive director, GGCSA, at 706-769-4076.

SUMMER CONCLAVE A SUCCESS

The 1993 Georgia GCSA Summer Conference, held Aug. 1-3 in Augusta, was termed a tremendous success, with 155 in attendance.

Highlights included a BBQ dinner and tour of the Augusta National Maintenance Facility, golf at the West Lake Country Club, and a riverboat cruise and dinner along the Savannah River. Eleven educational presentations plus a new product information session rounded out the event.

SOD GROWERS GIVE \$35,000

TAMPA, Fla.—The Florida Sod Growers Cooperative, Inc. (FSGC) donated \$35,000 to the Florida Turfgrass Association Research Foundation during the Florida Turfgrass Association's (FTGA) 41st Annual Conference and show here.

More than \$113,005 was presented to the FTGA by the FSGC, the Florida Golf Course Superintendents Association and various other groups for the FTGA's efforts in the turfgrass research facility, the Envirotron, and their statewide turfgrass survey.

The check was presented to FTGA Executive Director Bob Yount by Bethal Farms Manager and FSGC President, Will Nugent, during the FTGA trade show annual awards luncheon. The money will go towards completion of the FTGA's, \$76,000 turfgrass survey.

Dr. John Hyadu and colleagues

at the University of Florida are conducting this comprehensive statewide survey. It will determine the total economic impact the turfgrass industry has in the state of Florida.

The FTGA Conference and Trade Show, whose theme was "Turfgrass Treasure," reported an all-time attendance high of 2,000. Four hundred booths were occupied by 2,005 exhibitors from around the world, including the United States, Canada, and England.

IMAGE ENHANCEMENT

Steve Wright of Alaquia Country Club in Longwood, Fla., is chairing a new committee for the Central Florida Golf Course Superintendents Association (CFGCSA) which will focus on "image enhancement."

The chapter hopes to improve its image to club members, neighbors and the general public.

"I firmly believe we must respond in a positive manner or our profession will decline," said new CFGCSA President Charles Blankenship of Zellwood Station Golf and Country Club.

TURFGRASS PROGRAM

Orange County, Florida's Westside VoTech has graduated 10 students from the central Florida area.

The students, who have completed the program's four required courses, are Bob Uppenkamp of Interlachen Country Club, Michael Abbott and Harrison Manis of Wedgefield Golf Course.

Also, P.J. Ronyecz of Polo Park, James Massey and Mark Teder of Metrowest CC, Robert Schnaudigel of Bay Hill Club, Terri Strickland and Ben Propst of Winter Pines, and Larry Woods of Halifax Plantation.

West

OREGON DEQ TARGETS OILY WASTE

PORTLAND, Ore. — The Oregon Department of Environmental Quality is proposing to renew a general permit used to regulate the discharge of oily wastewaters and to include the control of storm water.

The DEQ reported that some fueling operations and bulk petroleum storage facilities which have not been covered by permit in the past will be permitted outright, with some limitations.

The permit covers storm-water runoff, ground-water dewatering discharges, draining of water from storage tanks, and other discharges associated with petroleum storage, formulation or packaging facilities. It can also include oily discharges from motor pools or other facilities which can generate an oil discharge.

A series of public hearings will be conducted from Oct. 11-19 at Pendleton, Bend, Portland, Medford and Salem. More information is available from the DEQ at 503-229-5696 or 800-452-4011.

OREGON DEQ REORGANIZES

The Oregon Department of Environmental Quality is reorganizing, shifting staff from the Portland headquarters to field offices to place increased emphasis on field operations.

"Placing additional staff in the field will provide a substantially greater level of local presence for technical assistance, pollution prevention programs and inspections," said DEQ Director Fred Hansen.

When the transition is complete, about 60 percent of the DEQ program staff will be in field offices.

The DEQ also merged the Environmental Cleanup Division and the Hazardous and Solid Waste Division.

INLAND NORTHWEST SHOW SET

SPOKANE, Wash. — The 7th Annual Inland Northwest Turf and Landscape Trade Show will be held at the Spokane Interstate Fairgrounds on Jan. 27, with more than 30 companies exhibiting and demonstrating the latest technology in turfgrass

equipment, products and supplies.

The sponsoring Inland Empire Association of Golf Course Superintendents Association (IEGCSA) has arranged the event for superintendents and their crews, turfgrass industry employees, commercial and private landscapers, groundskeepers, nursery owners and other lawn care professionals.

All proceeds will benefit turfgrass research and education.

More information is available from Julie Boyce, IEGCSA trade show coordinator, at 1708 N. Lee St., Spokane, Wash. 99207; telephone 509-534-4161.

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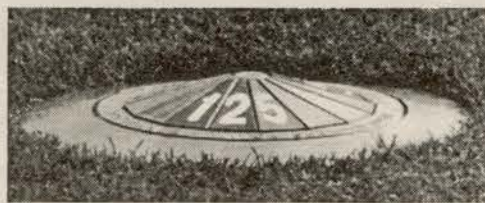
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Advances made in turfgrasses

Continued from page 13

the human, biological and environmental factors that golf courses influence.

From scrutiny of nitrogen and phosphorus compounds to pesticides, the news was good for the golf industry.

A wide-ranging study at the Michigan State University found "turf systems are much more efficient users of nitrogen compared to agricultural systems."

Washington State University scientists reported that in one study "despite the relatively high percentages of nitrogen leached, the leachate concentrations never exceeded 10 mg L-1."

University of Nebraska and Iowa State University examinations of four pesticides in stands of Kentucky bluegrass showed an "apparent increase in degradation rate for these compounds in the turfgrass system compared to degradation rates for the same compounds in agricultural systems."

University of Florida experiments conducted on

chlorpyrifos, isazophos and isophenphos found no compounds in significant amounts within leachate samples.

Meanwhile, University of Georgia investigators said their research "suggests that turf systems are much more efficient at reducing soluble pesticide leaching compared to agricultural systems."

Yet they recommended that application of nitrogen or pesticides to unamended, coarse sandy soils should be avoided. Modification of these sands with peat or other organic material will serve as a very effective means of

reducing subsurface loss of pesticides and nutrients.

The report said the greatest percent of subsurface loss of nitrogen was observed for the sand and sand/peat mixtures of soil compared to loamy-sand, sandy-loam or silt-loam soils.

"Addition of the peat to sand significantly reduced the amount of nitrogen loss through subsurface leaching compared to sand alone," the report said.

Among other findings:

- Researchers are establishing composts that suppress *Pythium* and *Typhula incarnata* diseases. "In field studies, some composts

are as effective as standard fungicides in suppressing *Pythium* root rot and *Typhula* blight on creeping bentgrass putting greens."

More than 100 strains of actinomycetes are being evaluated for disease-suppressive properties

- Runoff of nitrogen on sloped fairway plots occurred more quickly and with greater peak flow from the ryegrass than creeping bentgrass.

- No significant difference was noted for leaching of the soluble and insoluble 2,4-D compounds under either field or greenhouse lysimeters.

- Scientists are isolating "beneficial" microorganisms that are antagonists of disease-causing microorganisms as alternatives to chemicals.

The 23-page summary is available from the USGA Green Section, Golf House, Far Hills, N.J. 07931.

Environmental report aired

Continued from page 13

accomplishments were made. Water management, and our knowledge about how much water golf turf species use, have greatly improved. New bentgrasses, Bermudagrasses and buffalograsses already have been released to sod and seed producers and are making their way onto golf courses."

In his summary of the 10-year results, Snow reported:

- Improved greenhouse techniques were developed for making nutritional comparisons among new turfgrasses.

- Clipping removal from creeping bentgrass/poa annua fairways was found to favor bentgrass competitiveness.

- Hollow tine cultivation ranked equal to or higher than solid tine cultivation. Both reduced soil compaction.

- Promising zoysiagrass and bentgrass selections with good salt tolerance were identified, but buffalograss proved very sensitive to salt.

- Tifway Bermudagrass fared better than Meyer zoysiagrass and centipedegrass when compared in both moderate and high water usages and in periods of severe moisture stress.

- Screening techniques were developed for resistance to *pythium* blight and root rot, brown patch, dollar spot, spring dead spot, summer patch and necrotic ring spot pathogens.

- A monoclonal antibody test was developed for rapidly diagnosing the presence of necrotic ring spot and spring dead spot pathogens in turf.

- Some 30 new fungal endophytes which may impart insect resistance were isolated from turfgrasses.

- Biologically active materials called pheromones were isolated from mole crickets to either attract or repel crickets under golf course conditions.

FROM THE LEADER BOARD TO THE DRAWING BOARD

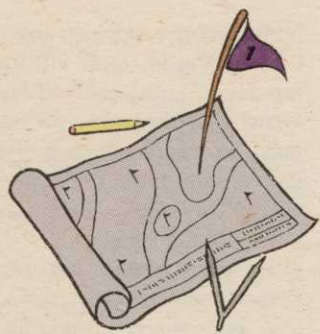
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BRIEFS



POELLOT NAMES VICE PRESIDENTS

SARATOGA, Calif. — J. Michael Poellot, principal of JMP Golf Design Group, Inc. based here, has announced the promotion of three employees. Senior designers Brian E. Costello, Mark E. Hollinger, and Robert W. Moore Jr. have all been named vice presidents at JMP.

FORSE MODIFYING LEHIGH CC

ALLENTOWN, Pa. — The William Flynn-designed Lehigh Country Club is undergoing a facelift. Ron Forse of Forse Design in Uniontown is handling the modifications, while MacCurrach Golf Inc. of Jacksonville, Fla., is the contractor. Forse said he is restoring the edges of the existing bunkers and "re-establishing" many fairway bunkers which had been covered over and lost since the course was built in 1928. The greens, which are about 90 percent poa annua, will be gassed and reseeded to bentgrass, in a program overseen by superintendent John Chassard.



Ron Forse

course was built in 1928. The greens, which are about 90 percent poa annua, will be gassed and reseeded to bentgrass, in a program overseen by superintendent John Chassard.

FOSTER OPENS OFFICE

Keith Foster & Associates has moved to a new address. It is 3110 N. 16th St., Phoenix, AZ 85016; telephone 602-279-4232; fax 602-279-6115. Foster reported he has signed six contracts — two in Phoenix, two in Denver, and others in Las Vegas and Lexington, Ky. Meanwhile, he is working on projects in Columbia, Mo., and Seattle, Wash., and construction was ready to begin this fall at courses in Tucson, Ariz., and Laughlin, Nev. The Laughlin facility is being developed by Don Laughlin at a casino town on the Colorado River.

DAVE FLATT JOINS DAD LARRY

OVERLAND PARK, Kan. — Flatt Golf Services, Inc. announces that Dave W. Flatt has joined the firm as golf course architect. He is responsible for golf course design, drafting support and construction inspection. Flatt has been working in the golf industry since he was 14. Before joining FGS, Inc., he was employed by the Wadsworth Construction Co. in Plainfield, Ill., a leading golf course construction company, from 1989 to 1993. While with Wadsworth, he prepared and placed bids on irrigation systems, supervised and coordinated installation of irrigation systems and coordinated irrigation inventories with irrigation suppliers.

GOLF COURSE NEWS

Novice designers aim for lasting impressions

Course design a thing of dreams for many, but few get to try their hand at it

By MARK LESLIE

Whether a youthful dream or a mid-life business decision, golf course design is the child of many mothers. Among novice course architects, this is also true.

For William Bradley Booth, designing a golf course began as a dream when he would draw golf holes during 8th-grade study hall.

For then-52-year-old attorney Ken Tomlinson, his design of award-winning Tidewater Golf Club and Plantation was a business decision by a man with "an eye for balance."

For Randy Russell, a course manager with course construction background and a degree in turfgrass management, the design of his community's municipal track just fell into his lap.

They join a small but famous band of amateur designers whose names live on in the courses they designed.

George Crump stands as an equal next to the great names in golf design despite his creating only one course in his life. But that was Pine Valley in Clementon, N.J., considered by many the best course on the globe.

Jack Neville had a decade in the sun, designing Pebble Beach in 1918, but he never was truly a "professional" architect.

Polls invariably list Pine Valley and Pebble Beach among the top four or five courses in the world. Yet they were designed by amateurs in the art, science and business of golf course architecture.

When Tomlinson completed Tidewater in North Myrtle Beach, S.C., in 1990, his design won instant acclaim, becoming the first track ever to be named Best



The 12th green, foreground, and 13th fairway and green in the distance illustrate the environmental sensitivity of Tidewater Golf Club and Plantation in North Myrtle Beach, S.C. Cherry Grove Beach sits across the ocean inlet to the right.



New Public Course by both *Golf Digest* and *Golf Magazine*.

The three novice designers agree:

- Golf course architects are generally underpaid, not overpaid.

- Design is a science as well as an art form. Science plays a crucial role in design, adding a difficult major chore: education in the fields of agronomy, irrigation and engineering.

- Help from experts is critical to success.

- Courses should "naturally" fit into the land.

- They would "do it again" in a second.

TOMLINSON CREDOS

Tomlinson has gained the most notoriety among first-time designers in recent years. He credits his success to an incredible seaside property, a bevy of

helpful experts, and "the good Lord blessing me with an eye for balance."

"They talk about the beauty of the course," Tomlinson said. "I just didn't screw it up."

A fine golfer who has long been involved in golf projects from the financial side, Tomlinson nevertheless said designing Tidewater was not a dream come true. "That would make a great story line," he said. "But I bought that land because a golf course and residential development made sense there. And I designed and built my own course because I felt it made good business sense.

"In my judgment, courses that have stood the test of time were done without artificial mounds all over the place. When you looked at the green, you'd see putting surfaces. I was convinced people

Continued on page 29

Q & A

Tom Weiskopf:
As serious about
design as play

Considered a serious threat to win every time he stepped onto the golf course during his PGA Tour prime, Tom Weiskopf, 51, has been winning accolades with partner Jay Morrish since they first teamed in 1984 to design golf courses. As a player, Weiskopf has shined in the "laboratory of golf," winning 15 PGA Tour victories, the 1973 British Open and many other championships. As a co-designer, he has won marquee billing with Morrish for such tracks as Troon Golf & Country Club in Arizona and Shadow Glen outside Kansas City, Kan. They became the first Americans to design a course in Scotland — the just-opened High Road



Course at Loch Lomond, which Weiskopf said is "absolutely the best course we've done or will ever do." Managing Editor Mark Leslie caught Weiskopf at home in Paradise Valley, Ariz., busy at work on a design project but looking ahead to his annual time of upland bird hunting with his hunting dog, Hawk.

Golf Course News: You have a reputation as being dedicated to learning the agronomy and technology of the course design profession.

Continued on page 27

Mizuno trouble
continues in
U.S. and Japan

LAS VEGAS, Nevada, U.S.A. — Ken International Co., formerly owned by embattled Japanese golf tycoon Ken Mizuno, agreed in mid-October to forfeit about \$65 million in assets as part of a plea bargain on criminal charges, reports United Press International.

The firm pleaded guilty to laundering millions through expensive pieces of U.S. real estate that were fraudulently obtained by over-selling memberships at Ibaragi Country Club in Japan. Ken International also agreed in its plea in U.S. District Court to forfeit \$260 million of assets, although the government can currently account for just \$65 million.

According to the U.S. Attorney's office, Ken International advertised it would sell only 1,830 full memberships in the Ibaragi club, but instead sold about 52,000 membership for the equivalent of \$800 million. U.S. federal prosecutors indicated Mizuno, now on trial in Tokyo on separate fraud and tax-evasion charges, used Ken

Continued on page 29

Property rights proponent says 'tail wagging dog' in the U.S.

Continued from page 1

lots, Lucas discovered what he called a government gone awry, with "the tail wagging the dog."

Landowners from coast to coast have seen golf course proposals squashed by agencies like South Carolina's Coastal Commission, and similar private environmental groups. They might take notice of the newly incorporated Council on Property Rights, in which Lucas has pulled together a high-powered team to put a stop to what he feels is government's environmental steamroller.

The 46-year-old Mount Pleasant, S.C., resident is devoting his full time to the council. "The American property owner is a sleeping giant. We want to wake him up so that when he growls these [government officials and public boards] will listen to him. If he doesn't wake up, he will die the death of a thousand cuts, no question about it," he said.

Lucas envisions the Council on Property Rights as an umbrella organization for the hundreds of property-owner groups scattered around the country.

"Hopefully, this will take some of the pressure off golf course owners, and other developers, too. It will give city councilors and other lawmakers pause to think," said Lucas, who received a \$1,575,000 settlement from the Coastal Commission.

"In the settlement," Lucas said, "the state paid me, took the two lots, and is selling them for people to build houses on. That's what they fought for five years to keep me from doing. They rationalized that it's just two lots and there are houses on both sides of it, so it makes more sense to sell it. We said, 'You hypocrites. That's exactly what we argued in the beginning.'"

Despite the importance of the Supreme Court case, Lucas said he has talked to real-estate developers who weren't even aware of it.

"People need to know about it. There was a lot of publicity going in, but a dearth after it," he said.

In the Council for Property Rights, "people now have an instrument to use ... to get reasonable treatment," said Ray Finch Jr., part owner of Emerald Dunes golf course in West Palm Beach, Fla.

ISSUES OUTSTANDING

Regulation may soon get much worse, Lucas warned, claiming the Clinton Administration's agenda is three-pronged:

- The Clean Water Act is up for renewal. "The administration wants to strengthen it. It wants to regulate and prohibit more," he said.

- The Endangered Species Act, which will list some "800 critters, from minute beetles to grizzly bears,

Continued on next page

Supreme Court ruling set stage for landowners' council

The Council on Property Rights was born from the U.S. Supreme Court decision in *Lucas v. South Carolina Coastal Council*.

The High Court declared on June 29, 1992: "Regulations that deny the property owner all 'economically viable use of his land' constitute one of the discrete categories of regulatory deprivations that require compensation without the usual case-specific inquiry into the

public interest advanced in support of the restraint."

When Lucas sold Wild Dunes golf facility in Charleston, S.C., in 1986 he bought two residential lots on nearby Isle of Palms for \$975,000, intending to build single-family homes like those on adjacent parcels. But in 1988 the state Legislature enacted the Beachfront Management Act, which barred Lucas from building. He filed suit, winning

in state trial court and being awarded more than \$1.2 million, but losing in the state's appeal to the state Supreme Court.

Reversing that decision, the U.S. Supreme Court ruled that by preventing Lucas from building on his land, the Coastal Commission accomplished "a taking of private property ... requiring the payment of 'just compensation.'"

"The state legislature cannot

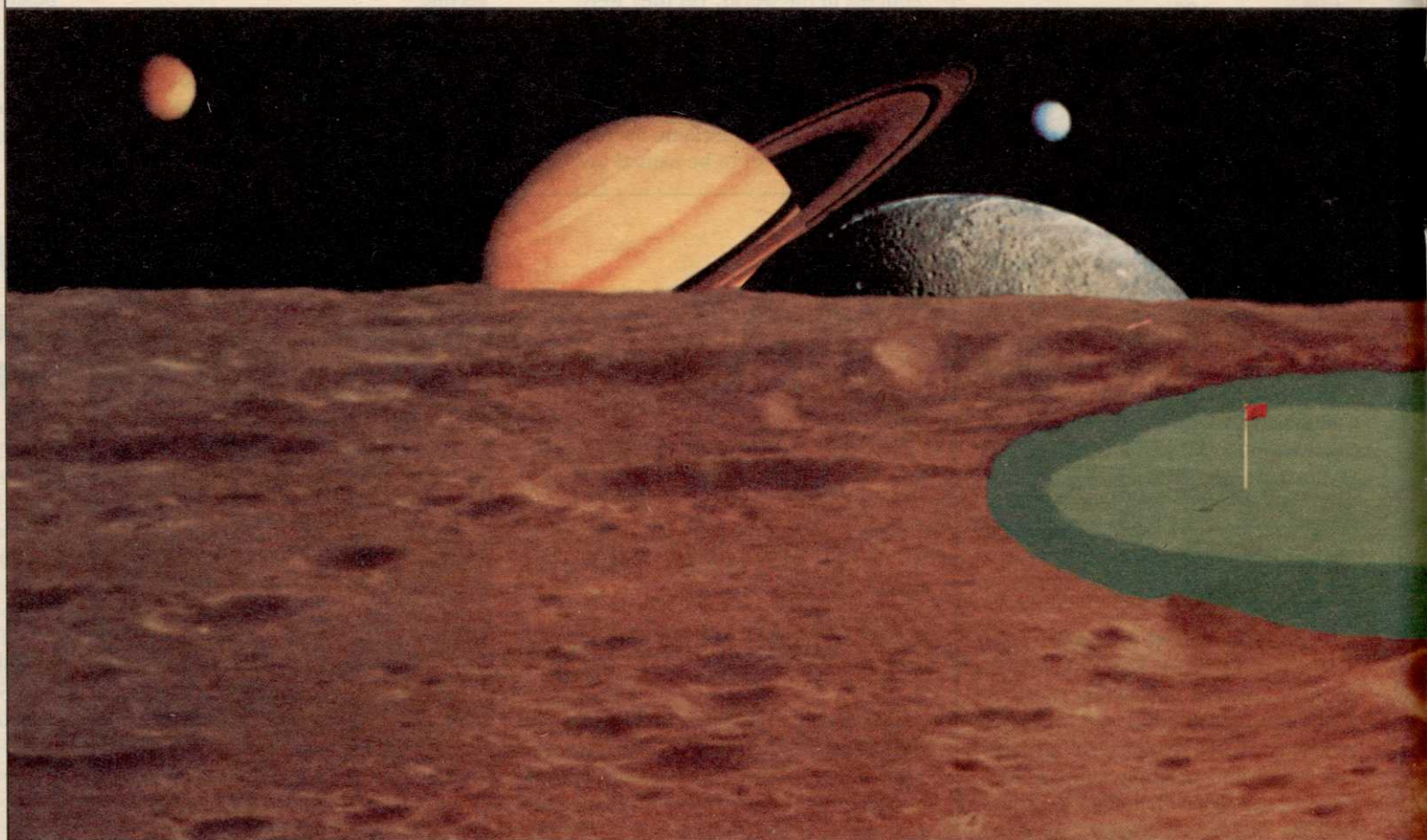
outlaw certain activities unless it is rooted in the common law of nuisance," Lucas said. "If you follow that through, you can make an argument that zoning laws are not there to do away with a nuisance. They are unconstitutional in that they discriminate against particular property owners. How can you have class discrimination like that? Why is one piece of property discriminated against?"

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Experts from trenches of Washington join the fray

Founder and Chairman of the Board David Lucas said a bipartisan group of professionals has been assembled to operate the new Council on Property Rights.

Bill Roundtree, a long-time Washington lobbyist who has represented British Petroleum Co., is president. Chief Operating Officer Bob Richards recently served three years as head of the Alexandria (Va.)



David Lucas

Williams and Jensen, a law group lobbyist; Jack Bonner and Associates, political activists

Chamber of Commerce. The council will work with several Washington, D.C. firms, including

who have phone banks to turn people out to vote; the John Hussey public relations firm; Ann Stone and Associates of Alexandria, Va., a mass-mailing fund-raiser; and the CATO Institute, a Libertarian-type think tank.

A bipartisan property-rights caucus will also be formed in the Congress and Senate, Lucas said.

"We have people who have

been in the trenches, Democrats and Republicans, conservatives and liberals. We even understand that the ACLU [American Civil Liberties Union] might be interested in joining us," Lucas said.

Until the Washington headquarters opens, the council is using Lucas's address:

P.O. Box 706, Mount Pleasant, S.C. 29465; telephone 803-884-3892.

Lucas charges 'drawbridge mentality'

Continued from previous page

each one with its own manual on how to treat them — some running to 300 pages."

• A National Biological Survey. "They intend to survey every living thing in America — not just to identify where it lives, but the ecosystems that support it. Pending this action in Congress, the government will be able to come onto your property without a search warrant."

Tie these things together, along with a rewritten wetlands law, Lucas said, and "There won't be one acre of property free of government control left in America."

Lucas declared the issue is not one of environment, but rather power and control by no-growth advocates.

He said that not all, but most of this group "don't care about people who need houses, and want them to go away."

"It's the old drawbridge mentality: 'Build a wall around us. We don't want these people here.' When you stop people from being able to buy a decent house at a reasonable price, you shut down the economy... So you perpetuate the cycle."

Lucas said this is not just a small issue. "It's the root cause, in the last 30 years, of what's been happening to this country. Ronald Reagan took the stops off and encouraged developers and builders to do business, and we had a wonderful decade. Bush came in with his people at the EPA. And now Clinton's group has it locked down tighter than a hat band," he said. "By the time Al Gore gets through with us, what's going to be left to develop?"

AN ALTERNATIVE

The Council on Property Rights intends to act on legislation. Taking the lead from California's Proposition 13, it will also push ballot initiatives as a way to change regulations.

"We want to show minority groups this is nothing more than the continued violation of civil rights," Lucas said. "Who suffers the most from slowdown of economic growth? Do you think major corporations do? It locks out the little guy. Only the big guy with a big cash-flow can afford to take the hit and pass the costs on. The medium and small guys go out of business and the big guy gets a better market share. That's why Exxon and other big corporations contribute to Sierra Clubs. They talk about property rights groups being backed by big business when, in fact, one of those organizations — Sierra Club — has a yearly budget bigger than all the 500 small-property land-rights groups put together..."

"The most endangered species in the U.S. is the private property owner. That's the endangered species I'm out to protect," Lucas said.

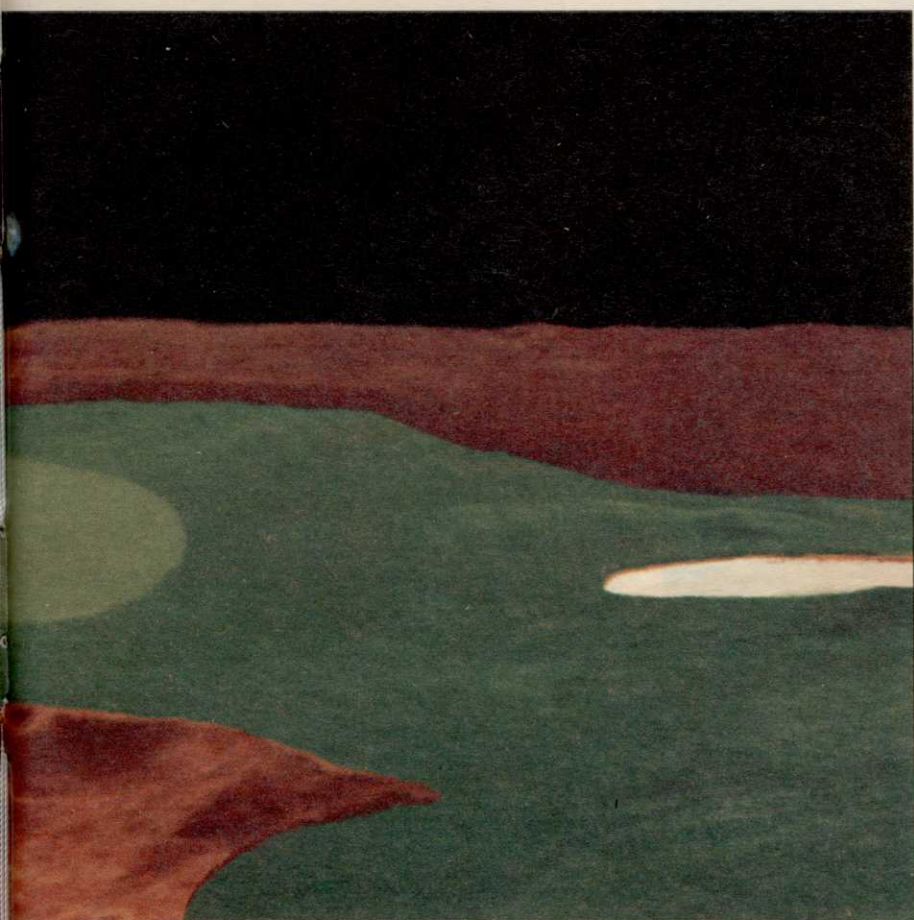
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Riverwood site challenges Bates and super Hamm

PORT CHARLOTTE, Fla. — Riverfront Lakes. Marsh. Mature pine trees. Gene Bates incorporated them all into his new Riverwood Golf Club here.

The front nine holes of the semi-private track are open, and the back nine is projected to open in November.

Bates' officials said the course has exceeded expectations. While it was first thought it was designed for senior players, it has attracted the younger players because of its challenge to all skill levels. Greens and bunkers were placed to make the layout impressive, but not intimidating, from the five sets of tees that play from 4,810 to 6,890 yards.

The back nine runs along the Myakka River. Its holes are cut out of a lot of wetlands and environmentally sensitive areas. Its learning center provides many options, with an 18-hole putting course, practice bunker areas, an area for approach, chips and sand-wedge shots, and a multi-level driving range.

The Mariner Group of Ft. Myers, under chairman and CEO Robert Taylor, developed the facility and Deans Construction built the course.

Superintendent Scott Hamm, who came to Riverwood during construction from Cape Coral Country Club, is facing the challenge of overcoming high salt content in the course's irrigation water. He is using an injection system to neutralize the salt's pH and leach the salts through the soil, and is applying gypsum and potassium every 45 days.



The 5th hole at Riverwood Golf Club is a par-3 that plays to a large, oblong green with a hump in the middle. It plays from 97 to 153 yards over five tees.

Photo by J.L. Talley Photography

Kavanaugh blends waterfalls, wetlands at Orchard Valley GC

AURORA, Ill. — A blend of natural challenges including meandering wetlands, lakes and waterfalls mix with roughs and waste bunkers in Orchard Valley Golf Course, the new Fox Valley Park District track.

The par-72 championship layout — designed by Ken Kavanaugh of Aurora and built by Wadsworth Golf Construction Co. of Plainfield — stretches from 5,162 to 6,745 yards over four sets of tees.

"My primary motivation in the design ... was to transform the landscape into a variety of memorable golf holes for all abilities to enjoy," Kavanaugh said, adding that Orchard Valley "has exceeded my original expectations as the premier daily-fee course in the Midwest."

He said Fox Valley Park District had committed to "provide the Chicagoland golfer with a fair and challenging golf experience of the highest quality."

New nine being added at Sand Creek CC

CHESTERTON, Ind. — Sand Creek Country Club has begun work on nine new golf holes on the southeast quadrant of the more than 500-acre property.

Designed by consultant Jerry Mobley and Austin, Texas golf course architect Charles Howard, the new holes incorporate the varied landscape while remaining

consistent with Sand Creek's original 18, designed by Ken Killian and Dick Nugent.

Howard said, "You have more terrain to work with. This land has 35 feet of elevation difference."

"It's a very interesting part of the design. It will be the main difference in the perspective of the golf holes."

Architects, builders lists available

Golf Course News' annual listings of golf course architects and builders in North America are available by sending \$5 for each list to: Lists, *Golf Course News*, P.O. Box 997, Yarmouth, ME 04096.

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Q&A: Weiskopf

Continued from page 23

Tom Weiskopf: I think it's very important. If you're going to put your name on something, that product represents your feelings and personality. The monetary reward shouldn't be your only motivation. Your name is on it forever. It's not like putting your name on a golf club.

GCN: It might be said that with the Troon courses, Double Eagle, Shadow Glen and other courses you've designed, that as great a player as you are, your design career may eclipse your Tour career.

TW: I hope it does.

GCN: Which do you enjoy most — playing or designing?

TW: I wouldn't say one outweighs the other. They are similar. They are both competitive, challenging, and demand a lot of hard work. Execution is involved in both. Unless you could win a major [tournament] or some majors, your name won't stay in history. With golf course design, if you can create an acceptance and reputation, it will outlast you far beyond what your golf could ever do — because that's your personality, the part of you that still remains.

GCN: How has being a great golfer affected your design? Some pros have been charged with designing courses too hard for the average golfer.

TW: I take a 180-degree stand on that. My input into the strategic aspect of what goes into our golf courses is nothing more than my vast experience of playing the greatest courses and, probably more importantly, remembering and watching the other players and the types of shots they hit on these specific courses under very demanding conditions; watching the ball react, either in its entry into the fairway corridor or its movement along the green while either being putted, chipped or pitched; or watching the ball trying to stay in a certain area where the pin was, regarding the contour of the green and the area they were playing to with that specific club. A great golf hole is a fair challenge that demands proper execution but is not overly demanding. The average player can play it.

GCN: What effect have your playing and design careers had on one another?

TW: My playing career will never be substantial as long as I remain as involved as I am in design. By substantial I'm talking about playing a full schedule of 20 to 25 events. I only played 12 this year.

GCN: Do you have a Tom Weiskopf fingerprint?

TW: No. Nobody has a fingerprint, because what's been done in golf has been done in golf forever. What remains to be accepted in golf as being good will always be good. What remains controversial has always been controversial. And you find both of those aspects in St. Andrews. That's why it's the world's best golf course. The whole thought process started there and went on from there — was perpetuated.

Maybe Desmond Muirhead has a trademark. He does those goofy things that look like fish, but you have to be up in a hot-air balloon or flying over at 100 miles an hour to figure out what they are, right?

GCN: What part of the course do you most enjoy designing?

TW: The strongest challenge to me is to build good short par-4s. From 290 to 400 yards. Those are my favorite holes. It's very hard to put enough challenge for a good player in a very short par-4. A good player has so much ability to easily play the hole without using a driver. And he has the precision in his short game, from 150 yards

and in — that's where he excels in most cases. You must challenge him.

GCN: How do you do it?

TW: I'm never going to tell. I just know what's been done and what I like. I'm just plagiarizing what's been done successfully in the past. A lot of people think of a Weiskopf-Morrish trademark as always putting a potentially reachable par-4 on all our courses. That came from St. Andrews. I've driven the ball to the green on 9, 10, 12 and 18.

GCN: What dimension does Jay add to the Weiskopf-Morrish team?

TW: Jay does the routing. He evaluates the property from a selection standpoint. We use two big criteria: Who are we doing business with? Are they good people, substantial people? Do they have a good concept and are they in a good marketplace? And, just how good is the property? You can't make chicken salad out of chicken —

Jay does all the working drawings. And they are so good that if we never set foot on site they'd turn out to be doggone good golf courses. If you have excellent working drawings, and you're not doing them on napkins, the owner can go to Mr. Banker and he knows exactly what his golf course is going to cost.

GCN: Who's your favorite architect?

TW: I don't have one. I don't look at it that way. I have an extensive art collection. I don't care if anybody else likes it but me. I think all of us in this business are artists. And that 170 or 180 acres out there, that's a canvas. I don't think it's fair for any of us to say, "I don't like that." I think it is only fair to question something if you think it is too penal or not fair in regard to strategic value. For instance, if you're asking a guy to hit a 2-iron to the 7th hole at Pebble Beach, then you've got a right to say something.

GCN: You've seen penal holes that should have never been built?

TW: I've seen a lot that are much too demanding even for the best to ever play the game. Still, you should never sacrifice the potential for a golf hole just because the average guy can't play it. The high-handicapper can't play the 8th hole at Pebble Beach. Do you sacrifice the potential

of a marvelous, aesthetically dramatic and challenging golf hole because some people can't play it? I say, "No, don't ever do that." But let's hope there's only one or two on a golf course.

GCN: Do you take maintenance into consideration?

TW: We've never built a golf course that's a maintenance nightmare. Our style doesn't dictate that... We're all trying to get back to the way they were building golf courses in the '20s, '30s and '40s — maintainable courses that are natural looking and playable. It's a cycle and we ought to stay there.

GCN: Do you think you will?

TW: I think everybody will. Five years ago, I said the best golf courses that will compete and be compared to those after World War I will be done in the 1990s. That's because we are back to that style. There are unions, hourly wages, construction costs, maintenance costs, equipment costs, water availability — everything else. And we're all smarter. The more you do, the smarter and better you should become.

There are also more good teams out there — teaming the professional with the architect. There are [Tom] Kite and [Bob] Cupp, [Ben] Crenshaw and [Bill] Coore, [Arnold] Palmer and [Ed] Seay. Two heads are always better than one.

GCN: What would be the perfect future for you?

TW: What I'm doing right now. Being highly selective. We only do three or four courses at a time. I want to play some, and do a lot of hunting and fishing — which I do — and be with my friends — which I do. That's all I've done the last 10 years and I've never been happier. I've found my niche, finally.

GCN: Have you thought about going into broadcasting?

TW: No. I have no interest.

GCN: Teaching videos?

TW: No.

GCN: Putting your names on clubs and golf shoes and shirts and jackets?

TW: No.

GCN: Nothing outside of designing and playing?

TW: That's it.

Mizuno selling properties

Continued from page 23

International to transfer about \$265 million in "fraudulently obtained proceeds" from Japan to the United States between 1989 and 1991. Forty-seven separate transactions were allegedly used to launder the money.

Approximately \$100 million of those funds were transferred to Mizuno's purchase of the \$52 million Indian Wells Country Club and Hotel near Palm Springs, Calif.; the \$10 million Royal Kenfield Country Club in Henderson, Nev.; a private DC-9 jet; a \$2.8 million house and a \$2.3 million condominium in Beverly Hills, Calif.; and three houses and a vacant lot in Hawaii.

A spokesman for Ken International's attorney said Mizuno spent about \$100 million to buy the U.S. assets, but noted their current value is approximately \$65 million. "He clearly overpaid on the improvements on some of the properties," the spokesman said.

About \$43 million will be returned to fraud victims and U.S. creditors will receive \$10 million. The U.S. government will receive 10 percent of the asset sales plus court costs. Federal prosecutors indicated the case is the second-largest, non-drug forfeiture case in U.S. history.

What happened to the remaining \$165 million that was transferred by Mizuno to the United States remains under investigation. The Las Vegas Review Journal has reported that Mizuno lost as much as \$60 million at Las Vegas Baccarat tables between 1989 and 1991.

Both Mizuno and his company were previously declared insolvent by courts in Japan and the U.S., giving bankruptcy estate administrator Kengo Ohashi authority over the disposition of the U.S. properties.

Mizuno, who has been charged in Japan on separate counts of tax evasion and fraud, is free on bail while awaiting his trial. Seven other Japanese who were charged in the scheme have been convicted and sentenced.

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Central Florida Turf

Golf Course Construction & Renovation

Courses approved in the United States the past 3 months

Location	Contact	Location	Contact	Location	Contact	Location	Contact
Arizona		Georgia		Louisiana		Ohio	
Phoenix	Dan Pohl	Gainesville	Grant McKinley	Many	Dave Bennett	Marlboro Twp.	Robert Frase
Arkansas		Hawaii		Massachusetts		Massillon	Marty Young
Mountain Home	Steve Hutchinson	Lihue	Grove Farm Prop.	Southwick	Robert Muir Graves	Oklahoma	
Pine Bluff	Ken Winger	Idaho		Minnesota		Quartz Mountain	Paul Chapman
California		Idaho Falls	Bill Neff	Atwater	Charlie Zaeska	Oregon	
Goleta	J. O'Shaughnessy	McCall	Robert Muir Graves	Virginia	Garrett Gill	Hillsboro	Jim Petersen
Murietta	Tom Pinch	Illinois		Mississippi		Pennsylvania	
Palmdale	Ted Robinson	Arlington Heights	Richard Hayden	Holly Springs	Ed Conner	Adams	Arnold Palmer
Roseville	Robert Graves	Aurora	Ken Kavanaugh	Montana		Carlisle	Pam Fisher
Sacramento	David Freeman	Carlyle	Don Horrell	Bigfork	Jack Nicklaus	South Carolina	
Sacramento	Dye Designs	Chicago	Chas. Tourtellotte	St. Regis	Keith Hellstrom	Clemson	Larry Allen
Simi Valley	Simi Ranch Prop.	Park Forest	John Joyce	Nebraska		Myrtle Beach	James Benton
Connecticut		Schaumburg	Vince Meranda	Hooker County	Coore/Crenshaw	Texas	
Middlefield	Gary Player	Indiana		Nevada		Austin	Gene Faulk
Florida		Kokomo	Jerry Matthews	Carson City	Robert Graves	Virginia	
Ft. Myers	Arthur Hills	Iowa		New Jersey		Williamsburg	Tom Clark
Naples	L. Ray Brill	Ankeny	Rod Lein	Ramsey	Mark Mitchell	Wisconsin	
Naples	Arthur Hills	Kentucky		North Dakota		Fond du Lac	Dick Nugent
Ocala	D'Ann Avery	Greenup	Mike Hurdzan	Jamestown	Marland Bersch		

Courses planned in the United States the past 3 months

Location	Contact	Location	Contact	Location	Contact
Alabama		Oskaloosa	Marvin Armstrong	Thomasville	Vaughn Black
Athens	Mayor Dan Williams	Ottumwa	Marvin Armstrong	North Dakota	
Hazel Green	Frank Campbell Jr.	Kansas		Williston	Stephen Kay
Littleville	Gary Roger Baird	Manhattan	Jim Gregory	Ohio	
Alaska		Louisiana		Akron	Fred Krum
Ft. Wainwright	Gail West	Bossier Parish	Jack Nicklaus	Grafton Twp.	Garron Zwiezinski
Arizona		Shreveport	Ron Garl	Oklahoma	
Scottsdale	Jack Nicklaus	Maine		Moore	Gen O'Bryant
Scottsdale	Brian Curley	York	Brad Booth	Tulsa	Steve Wallace
Tusayan	Sierra Verde Estates	Maryland		Oregon	
California		Easton	Bob Rauch	Ashland	Rec. Dir. Ken Mickelsen
Alpine	Jerry Slavonia	Massachusetts		Ashland	Jerry Pate
Fresno	Sienna Corp.	Adams	Stephen Brown	Beaverton	Arnold Palmer
Glendale	American Golf Corp.	Bridgewater	Michael Hurdzan	Lebanon	Bill Robinson
Lodi	Jay Morrish	Duxbury	Town Mgr. Tom Groux	Pennsylvania	
Sea Ranch	Robert Muir Graves	Lee	Dayton Delorme	Carlisle	Art Olsen
Simi Valley	Simi Ranch Properties	Waltham	PW Dir. Jack Snedeker	N. Braddock	Ferdinand Garbin
Temecula	Tom Skalar	Michigan		York	Dick Nugent
Walnut	Ted Robinson	Ann Arbor	Fred Barkley	Rhode Island	
Colorado		Centreville	Jerry Matthews	Newport	Art Hills
Broomfield	Bill Branyan	Dearborn	William Kilpatrick	South Carolina	
Carbondale	David Howerton	Robinson Twp.	Bruce Matthews	Hilton Head	Mark McCumber
Commerce City	Keith Foster	Warren	Ronald Bonkowski	Myrtle Beach	Hale Irwin
Longmont	Robert T. Jones Jr.	Minnesota		Myrtle Beach	Robert Blackburn
Steamboat Sp.	Richard Browne	Biwabik	Mike Gentile	Woodruff	Tom Jackson
Florida		Missouri		Tennessee	
Brooksville	Tom Fazio	Columbia	Richard Poe	Mt. Pleasant	U. Grant Browning
DeLand	Bill Gilley	Columbia	Tom Glosier	Rogersville	Warren Ragsdale
Destin	Guy Clark	Jefferson City	Gary Kern	Texas	
Naples	John Agnelli	Jefferson City	Larry Flatt	Austin	Coore & Crenshaw
Naples	Dove Point Dev. Corp.	Springfield	Dan Kinney	Baytown	Roy Johnston
Pensacola	Karl Boyles	St. Joseph	City Mgr. Patt Lilly	Baytown	Blue T Golf
Pensacola Bch	Monte Blews	Montana		Garland	Jerry Andrews
Punta Gorda	Gary Player	Kalispell	Robert Trent Jones Jr.	S. Padre Is.	Jim Chisholm
Scottsmeer	N/A	Nevada		Westlake	Frank Zaccanelli
Stuart	Gary Player	Las Vegas	Brian Curley	Utah	
Georgia		Minden	Jeff Dingman	Kaysville	John Thacker
Augusta	Roy Simpkins	New Hampshire		Layton	Forsgrens & Assoc.
Griffin	Ed Kanemasu	Kingston	Francis Colanton	Provo	Richard Parkinson
Macon	Larry Justice	New Jersey		Salt Lake City	Gene Bates
Savannah	Ted Kleisner	Chesterfield	Gary Player	Virginia	
Young Harris	N/A	Morris County	Armon Magliaro	Fairfax Cnty	Paul Engmann
Illinois		New York		Washington	
Durand	F.A. Sonny Paz	Delhi	Mary Ellen Duncan	E. Wenatchee	Pacific Golf Dev.
New Lenox	William McCollum	Highland	David Roehrs	Lacey	Gary Blume
Springfield	Bruce Carter	Liberty	Soung Kiy Min	Mount Vernon	Larry Willman
Indiana		North Carolina		Tacoma	Patrick Healy
Edinburgh	Carl Crider	Beaufort	Ault, Clark & Assoc.	Wisconsin	
Lafayette	Duane Dammeyer	Catawba	James Tarlton Jr.	Farmington	David Truttmann
Paoli	Ken Able	Conover	John Hemmings	Green Bay	Bob Lohmann
Iowa		Mebane	Rick Robbins	Janesville	Ron Burdick
Des Moines	Rick Flatt	Pinehurst	Gary Player	Plover	Steve Kaminski

Richardson and Snyder resurrect Arizona layout

By MARK LESLIE

SURPRISE, Ariz. — With the help of Baptist money, two California brothers and golf course architects Jack Snyder and Forrest Richardson, a golf course has been resurrected in this town between Sun City and Sun City West.

Just when the north nine holes at the Coyote Lakes Golf Club were seeded back in 1986 the project went bankrupt. Five years later, brothers Michael and Craig Brown breathed life back into the facility. The Browns moved their development business from California to Arizona, and checked out the property, which they discovered had grown up and gotten ragged.

The Ted Robinson-designed course had few signs of life, especially since the south nine holes had largely eroded and lost shape from the weather.

The Browns gained funding from the Baptist Foundation, hired Snyder and Richardson to rejuvenate all 18 holes into a public track, and made the resurrection official — naming the golf course after spotting a coyote beside a lake on the site.

"We did a major modification," Snyder said after opening the course on Oct. 11.

"We reshaped the greens and tees quite a bit and moved the lengths around considerably."

The course sits in the flood plain of the Agua Fria River and lakes come into play on several holes. Due to extensive original excavation on the land, 15 of the holes are in a depression, and surrounding homesites sit above the course.

The layout plays from 4,800 to 6,200 yards over the four sets of tees.

Golf Management International is operating the facility.

Novice course architects have firm beliefs on design

By MARK LESLIE

Golfer-friendly, eco-friendly and economic — that's what novices in the design game believe in.

"I want to make sure I've used as many of the natural features as I can," said William Bradley Booth. "I want to enhance those features, as opposed to being contrary to them... I want the shot values to feel natural, too."

At Austin, Texas' new municipal course, designer Randy Russell will use 57 acres of manmade lakes as "wet ponds to filter out nutrients and pesticides if we make any mistakes." The course will be irrigated with reclaimed water. Prairie buffalograss, which requires little or no irrigation, will be planted in the roughs.

Environmental and natural sensitivity was tantamount at Tidewater Golf Club and Plantation in North Myrtle Beach, S.C., which has five holes on the Intercoastal Waterway and four on the ocean

inlet at Cherry Beach.

"Golfers [at Tidewater] are going to feel at peace, at harmony with nature, not like they're out in a violent ocean," said designer Ken Tomlinson.

Booth described his design philosophy as "naturalized."

"I like to see things blend. I think some of the greatest architects were able to make their courses look natural, but were also very subtle," said the Maine man, who described himself as a "foot-to-soil" designer.

"A lot of people can do a routing just looking at a contour map. But I find those to be very contrived golf courses. This particular site is extremely hard. It's a woodland site with an elevation change of almost 200 feet. When you have that kind of elevation movement, it's very difficult to find golf holes. And unless you put foot to soil you really can't know what it's going to feel like once you get a golf hole out there."



W. Bradley Booth

Tomlinson said: "My philosophy is, if it doesn't make sense don't do it. Tidewater has no buried elephants or chocolate drops. I tried to make it look like I didn't do anything — like it naturally flowed. In some places it didn't. I'm proud of the 3rd and 4th holes along the marsh. They were as flat as a pancake, so we had to work in some areas to make it look natural."

Tomlinson sees balance as crucial to his design. "I want to see if a hole is asymmetrical — in balance, but done so because of a mixture of shapes and forms," he said. "I think you're born with

'I want to enhance [natural] features, as opposed to being contrary to them... I want the shot values to feel natural, too.'

— W. Bradley Booth

that ability. I can look at a fairway or green and tell if it's in balance. You can't take credit for that."

Good golfers, all, these designers know another important factor to architecture: how to execute great golf shots.

"You have to know how to hit great golf shots in order to design great greens to reward the very best golf shot. That's the scientific part of the playing strategy," Tomlinson said.

"Every single shot at Tidewater is there for a purpose. You can elect to hit it to a place you get rewarded on the next shot, or you can bail out. But

I'm going to force you to have a good time. What appears off the tee to be an easier, safer place, could get your blood pumping on your next shot.

"I think I'm in a vast minority in that regard. Architects I've talked to say people don't want a hard golf course. If they shoot 80 at home they want to be able to shoot 80 elsewhere. I don't believe that. I think it's a game, it's for fun and I want to get their blood pumping."

Russell said his maintenance background is very important. "A well-maintained course will hide a lot of design flaws," he said. "If an architect gives a superintendent a lot of problems in order to make a course dramatic, the superintendent is left trying to make it look nice."

"On the other hand, it's going to be a dull world if you strive strictly for maintenance. You have to strike a balance and that's determined by the use."

For some, course design is a dream come true, for some it 'just happens'

Continued from page 23

would love that look and feel. I saw courses people were building today. They were wonderful. But I don't like manmade obstacles. I wanted to make sure people liked my course and would play it. And, rather than asking celebrities to change their style of architecture while I was paying them, this was more simple."

Asked if he were going to design another course, the practical Tomlinson said: "It's a mistake that I haven't designed another here at Myrtle Beach. It would have networked well businesswise."

Although he likes the idea of working for himself ("I got paid very well."), Tomlinson said that "without question" he would design another course — in an area that does not compete with his.

"I've enjoyed what I've done very much," he said. "Now that I've done it and sacrificed as much as I have to learn the technical aspects, it makes sense from a business standpoint to do it, especially here. People would say, 'Let's see what this crazy lawyer has done this time.'"

What about elsewhere? "That, I would love to do. For someone who would appreciate the natural look of Tidewater," he said.

Tomlinson does admit to other reasons than business for wanting to put his fingerprint on another tract of land.

"It's lasting. Most of my life has been spent in generating money. Once you spend it, it has no lasting effect. A golf course is there forever," he said.

NOT A NEW GAME FOR RUSSELL

The idea of designing a municipal golf course for his employer — the city of Austin, GOLF COURSE NEWS

Texas — was a welcome challenge for Russell, division manager of operations for parks and maintenance.

Russell put his turf management degree to work with O.M. Scott and for five years with [Ron] Kirby-[Gary] Player and Associates. He then joined Austin's payroll 15 years ago. He said he had input into design concepts with Kirby-Player, but mostly field work.

When Austin decided to reclaim a 194-acre sewage treatment plant property, the golf advisory board decided to keep project costs down and name someone inhouse to design the course.

"It sounded like the most fun," Russell said. "I have done a couple of small remodeling jobs on my own out here — one to correct drainage problems, and a full-scale remodeling of Swope Park in Kansas City."

Russell said the board also believed he "understood golf in Austin and we'd get the right kind of course... Having operated golf courses, I have an added perspective: making the course maintainable and fitting it to your clientele and purpose. Golf course architects know that and understand that. But it's harder to relate to unless you've worked on the other side. I've been a pro, an architect and an operator."

Does Russell envision Austin's new course, on which construction began in mid-October, as a springboard to a new career?

"It depends on how this one comes out. If it's successful, like I hope and think it will be, I wouldn't rule that out," he said. "Getting the first one in the ground is crucial, and 'remodels' don't do that. As for a career change? I'd think about it very seriously. There's no question

I'd enjoy doing it. The other question is, could I make a career doing it?"

BOOTH TAKES PLUNGE

A career is exactly what Booth intends to make out of designing — and earth hasn't even been turned on his first job.

A club assistant pro 20 years ago and the owner of the turf management company, Lawn Technologies, in York, Maine, Booth said course design "has been a life-long ambition of mine and probably of a lot of people. But I've felt I had the talent for it. The thing about golf course architecture is, you need the first one."

"Many people get to the point in their financial careers where they can do it themselves. I was never in that position. So I feel very fortunate to have an opportunity — and an opportunity in my backyard to boot."

The developer of The Ledges in York heard that Booth had remodeled the 18th hole at York Golf and Tennis Club while he was green chairman. "He called me in. We interviewed. He liked my philosophy (I'm a very foot-to-soil person — foot-to-soil). And he hired me," Booth recalled.

Ground should be broken on The Ledges next spring.

Booth gives major credit to his "mentor," former American Society of Golf Course Architects President Geoffrey Cornish of Amherst, Mass. "Geoff came in for a consultation at York Golf and Tennis Club," Booth said. "When we asked him to remodel the 18th hole he looked at me and said, 'I think you should do that.'"

Cornish has continued to help Booth. Booth took the Cornish-Robert Muir Graves golf course design class at Harvard University, and Cornish has advised on routing and other specifics.

DEMANDING JOB

Golf course design is taxing physically as well as mentally, and that is exacerbated when you don't have scientific background, these three found.

"I studied night and day," Tomlinson said. "I may have learned more in the last eight years about golf courses than others do in a lifetime because I worked so hard. And I had a lot of help. I talked to everybody. I constantly relied on the USGA [United States Golf Association] and its books for help. Now I'm on

the USGA Green Section Committee."

Golf course architects are not overpaid, Tomlinson added. "If I were trying to build \$1 million homes, a Nicklaus or Palmer name, for instance, would sell them. If you want to appeal to the more affluent market, I can't imagine going any other way."

"I think you just have to evaluate each instance. You can't generalize. There were times when I would have loved to have Rees or Bobby [Robert Trent Jr.] Jones, or [Jack] Nicklaus there to help me."



Redhawk Golf Club, Temecula, California, Hole #12, 168 yard, Par 3

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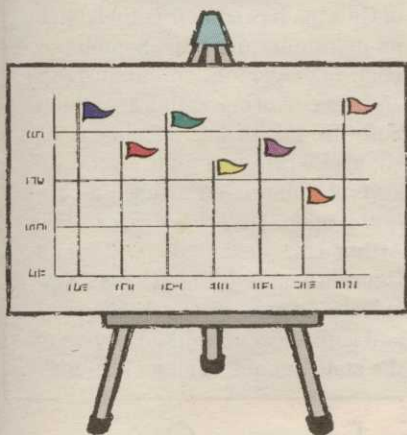
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BRIEFS


**RTC NAMES MATRIX INTERIM
MANAGER AT JUMPING BROOK**

CRANBURY, N.J. — The Resolution Trust Corp. has named Matrix Hospitality to manage Jumping Brook Golf Club until the government can sell the property. Jumping Brook is a daily-fee facility designed in 1925 by former A.W. Tillinghast associate Willard Wilkinson. Matrix is a major New Jersey investment development company and manages two other golf courses — Forsgate Country Club in Jamesburg, N.J., and Commonwealth National Country Club in Horsham, Pa.

ROSENBERG TO RUN HOMESTEAD

HOT SPRINGS, Va. — Hospitality industry veteran Gary Rosenberg has been named president and chief operating officer of The Homestead, a historic 102-year-old resort recently taken over by Club Corporation International subsidiary Club Resorts Inc. Rosenberg has been with Club Resorts for three years, most recently at Pinehurst (N.C.) Resort and Country Club, where he spent a year assessing the company's special projects and business development opportunities worldwide. The Homestead also named Wayne Nooe director of golf operations.



Gary Rosenberg

NEW MONIKER FOR GENEVA RESORT

LAKE GENEVA, Wis. — Reflecting the extensive renovations underway, Marcus Hotels Inc. is changing the name of Americana Lake Geneva Resort to The Grand Geneva Resort and Spa. Work is scheduled for completion next spring at the facility, located roughly midway between Chicago and Milwaukee. The two courses will be upgraded and a new clubhouse added.

OECHSLE TAKES OVER BAYOU CLUB

LARGO, Fla. — Theresa L. Oechsle has been appointed vice president and general manager of Bardmoor/Bayou Club, Ltd., according to an announcement by Henry Crown and Co., majority owner of the Bayou Club. A native of the Washington, D.C. area, Oechsle for the past 10 years has held management positions with several of the country's leading real-estate development firms. For the past three years, Oechsle has served as general manager of the Country Club of Mount Dora, a 780-unit residential golf course community north of Orlando.

Fairways Group acquires clout, capital following KSL purchase

By PETER BLAIS

Lost in the hype surrounding KSL Recreation Ltd.'s Bastille Day purchases of high-profile PGA West and LaQuinta Hotel Golf Course was a potentially more important acquisition the company made eight days earlier.

On July 6, KSL (an affiliate of international merchant banking firm giant Kohlberg Kravis Roberts & Co.) took over The Fairways Group. The Manassas, Va.-based firm manages a dozen courses in five Eastern states.

But that is just the beginning. Through Fairways, KSL expects to become one of the largest owners and operators of "affordable" golf courses in the country.

"We want to grow from 12 to something in the 30 to 50 range over the next several years," said Eric Affeldt, Fairways' vice president of business development.

"We'll focus on the 4,000 or so golf courses that might be available east of the Mississippi. There are many properties for sale and we are one of the best capitalized companies in the industry."

What Fairways is willing to spend on a property will be determined on cash-flow potential, rather than some standard financial ratio such as cap rate or a multiplier of gross revenues, Affeldt said.

Despite the economic slowdown in the early 1990s, "a lot of people put too much money into their courses and want more than they are worth back," the acquisitions specialist said.

Affeldt said Fairways will concentrate its purchasing efforts on hub cities of 250,000 or more people. The firm will seek several courses in each market, allowing it to establish "managerial efficiencies" permitting the sharing of management expertise and equipment among neighboring prop-

Continued on page 31



A ranger at Otter Creek explains the PaceSetter program to a pair of patrons.

Marketing Idea of the Month

PaceSetter program moves golfers 'round the course faster, with a smile

By PETER BLAIS

COLUMBUS, Ind. — Many courses pay lip service to speed of play. But Otter Creek Golf Course here is actually doing something about it.

Gleaning the best from similar programs while throwing in a few wrinkles of its own, Otter Creek's PaceSetter program has shaved 60 to 90 minutes off the time it takes many golfers to play 18 holes. That's made for happier golfers.

Meanwhile, rounds played have jumped 6 percent the past two years, from 25,000 in 1991 to 26,500 this year. That increase came despite 1993's wet weather.

Happier customers and more \$65 green fees. Nice combination.

"The difference between other programs and ours is that we've tried to make it people friendly," said General Manager Michael Hatten. A long-time food and beverage manager before taking over Otter Creek, Hatten brought skills honed in that customer-service-oriented industry to Otter Creek's table.

"Speed of play programs have always had kind of a police mentality. It seems to be that way across the country. Here we promise to help golfers get around the course in no more than 4-1/2 hours. They really seem to appreciate it."

The golf industry is notorious for assuming people know what to do and how to speed play, Hatten said. But that isn't necessarily so. In fact, by asking

Continued on page 34

Palmer Management, Pacific Golf join forces

California-based Pacific Golf has teamed with Orlando, Fla.-based Arnold Palmer Golf Management Company (APGMC) with an eye toward expansion.

Pacific Golf, with the backing of Apex Investment Partners, a Chicago-based venture capital firm, has made a substantial investment in APGMC. The transaction is the first step in a plan to acquire and lease over 50 million dollars of golf facilities, according to Apex principal John Regan.

Peter Nanula and Blake Sonne, the co-founders of Pacific Golf, have assumed leadership of the recapitalized company. Nanula will be responsible for pursuing and evaluating all new business opportunities. Blake Sonne is APGMC's new chief operating officer, heading the company's day-to-day operations and the development of marketing strategies.

Mergers & Acquisitions

NGP snaps up second property: Southwyck

HOUSTON — National Golf Properties (NGP) has acquired Southwyck Golf Club in Pearland. The property, which is NGP's second acquisition since its initial public offering in August, was acquired from Realty Advisory Group Inc. for \$4.2 million.

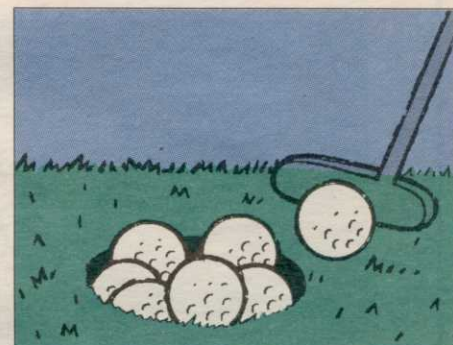
A self-administered real estate investment trust based in Santa Monica, Calif., NGP owns 25 daily-fee courses, 13 private country-club courses and 11 resort courses in 17 states.

Located south of Houston, the 7,015-yard public course, which has won three consecutive National Golf Foundation Achievement Awards (1990, 1991 and 1992), is the home course of the University of Houston golf team and has hosted numerous local Professional Golf Association events.

The management contract for Southwyck Golf Club has been awarded to American Golf Corp.

...

NGP announced a \$0.164 per share dividend on its common stock for the quarter ending Sept. 30, the company's first dividend since its initial public offering in August.


**KEYSTONE, INTRAWEST LOOK
TO BOLSTER YEAR-AROUND RESORT**

KEYSTONE, Colo. — Officials of Keystone Resort and Intrawest Corp. of Vancouver have formed a joint venture as a prelude to added development at the ski and golf resort. Intrawest reportedly is Canada's largest developer of mountain resort real estate, and Keystone is a popular ski and golf resort, with its Keystone Ranch Golf Course. Intrawest Chief Executive Joe Houssian said his company will explore development to strengthen the resort's year-round amenities.

CW Golf Partners to manage Chester Washington GC

LOS ANGELES—CW Golf Partners has acquired the management lease for the Chester L. Washington Golf Course from the County of Los Angeles, a move designed to improve the course and benefit inner-city youth.

CW Golf Partners is a joint venture between American Golf Corp. and three prominent African-Americans—businessman and former Cleveland Browns line-backer Sidney Williams, Los Angeles Raider quarterback Vince Evans and business consultant Edward K. Waters.

Under the agreement, Williams and Walters collectively own 20 percent and Evans 5 percent of the partnership. AGC controls the remaining 75 percent. Williams, Walters and Evans have the option to double their interest to 50 percent after five years.

"We are extremely pleased to have acquired the management lease for Chester L. Washington Golf Course," read a partnership statement. "We are committed to restoring the course and increasing the number of recreational opportunities available to inner-city residents and children of our community."

During the first 18 months, CW Golf Partners will invest \$900,000 to renovate the irrigation system, rebuild lakes and cart paths, and install protective fencing. Where possible, work will be awarded to ethnically diverse contractors.

To help the area's youth, CW Golf Partners will donate 1 percent of annual greens fees and golf cart revenues to help the Watts/Willowbrook Boys and Girls Club and to fund an annual charity golf tournament at the course with the Los Angeles Department of Parks and Recreation.

As part of the 25-year management lease, CW Golf Partners will also maintain Jack Thompson Golf Course, a nine-hole layout popular with inner-city junior golf programs.



EAGLE HARBOR UNVEILED THIS MONTH

Eagle Harbor Golf Club, a semi-private course designed by Clyde Johnston, is scheduled to open in Jacksonville, Fla. the weekend of Nov. 13, with member play and a bash that Saturday night. East West Partners, headquartered in Richmond Va., will manage the project. East West also manages Brandermill Country Club in Midlothian, Va., and Uwharrie Point Golf Club in Denton, N.C. Eagle Harbor is a par-72 layout measure 6,840 yards. PGA touring professional Lanny Wadkins is among the partners invested in Eagle Harbor.

SENTELL JOINS GC OF GEORGIA

ALAPHARETTA, Ga. — Golf Club of Georgia has named Todd Sentell its marketing director. Sentell has been manager of communications and director of marketing at Antinori Software Inc. of Atlanta since 1990. He also wrote two golf novels and several golf-related articles for *Atlanta* and *Golf Illustrated*. The Arthur Hills-designed Golf Club of Georgia won *Golf Digest's* Best New Private Course in the U.S. award and is the second-ranked course in the state behind Augusta National.

The Fairways Group

Continued from page 31

erties.

Affeldt pointed to the Washington, D.C. area as an existing example of the type of arrangement the company envisions. Fairways currently operates three courses near the nation's capital — Prince William Golf Club and Montclair Country Club in Northern Virginia and Patuxent Greens Country Club in Laurel, Md.

Fairways also operates Countryside Golf Club in Roanoke, Va.; Monroe Valley Golf Club in Jonestown, Pa.; Shalimar Pointe Golf & Country Club in Shalimar, Fla.; Tiger Point Golf & Country Club in Gulf Breeze, Fla.; Northgreen Country Club in Rocky Mount, N.C.; Broad Bay Country Club in Virginia Beach, Va.; Marlborough Country Club in Upper Marlboro, Md.; Liberty Golf Park in Eldersburg, Md.; and Scenic Hills Country Club in Pensacola, Fla.

Fairways owns 11 of the facilities and leases one.

"We prefer ownership situations," Affeldt explained. "It provides stability. Many companies prefer strictly management situations. It's so much easier to get into the business if you don't own. To acquire courses takes capital, and not everyone has that."

Chairman of the Board Charles Staples is the company founder. He also holds the titles of president and chief executive officer.

Staples has 31 years experience in the golf industry, spending a dozen years as a head pro and superintendent at various facilities before getting into course management. He founded U.S. Golf Properties in 1978, which evolved into Fairways. A Class "A" member of the PGA of America, he has lectured widely on course management and wrote the PGA book *Buying or Leasing a Golf Course* in 1985.

Joining Staples on Fairways board of directors is Michael Shannon. Shannon was president of Vail Associates from 1985 through 1992. Under his leadership, Vail went from a \$100 million real estate/recreational enterprise in the Colorado Rockies to a \$400 million operation that is ranked among the top ski resorts in the nation. In 1992 he teamed with Henry Kravis of Kohlberg, Kravis Roberts & Co. to establish KSL.

The management team includes Affeldt, Vice President of Operations R. Daniel Mays, Vice President of Finance/Accounting Keith Litrenta, controller Eileen Moore and Director of Capital Projects Janette Schoenberger.

The management team at the course level is headed by a property manager at each location. The superintendent, golf pro or food and beverage manager holds the post, depending on who has the best management skills, Affeldt said.

NCA testifies on clubs' tax-exempt status

WASHINGTON, D.C. — The National Club Association (NCA) has submitted testimony to the House Ways and Means Subcommittee on Select Revenue Measures. The subcommittee, chaired by Rep. Charles Rangel (D-NY), is holding hearings on a variety of unrelated revenue measures.

Included in the hearings is a proposal to deny tax-exempt status to social clubs that discriminate on the basis of gender and strengthen rules relating to discrimination by social clubs. The proposal would also deny the present preferential tax treatment for tickets to certain charitable sports events if held at a club or facility that discriminates based on race, color, gender, or religion.

In its testimony, NCA stressed that it does not endorse discrimination, but rather, urges club members to adopt policies of selective membership which fulfill the conceptual goals and purposes of the particular club. "Joining a club is not a rejection of those who do not belong. It is simply a private decision on how an individual will spend some of his or her time," said Elizabeth Kirby Hart, NCA vice president for legal and government relations.

"The freedom to select one's fellow members is the essence of freedom of association in the context of a private social club. Government intrusion upon the membership selection process encroaches upon this freedom," Hart added.

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NGF Operations

Continued from page 1

and for the predominantly non-profit private facilities, it runs 5.6 percent. In net operating income, the national average for municipals is \$179,000, compared to \$144,000 for daily fee and \$118,000 for private facilities.

The last survey that even approaches the extent of this one was published in 1987. Everything is covered, from maintenance equipment purchases and irrigation upgrades to golf car rentals to clubhouse and course remodeling.

Clubhouse improvements seem more important to owners than golf courses. On a national average, daily-fee facilities spend an annual average of \$56,400 for clubhouse construction/renovation the past five years, compared to \$37,800 for reconstruction/renovation of their golf courses.

"The clubhouse is more immediately visible," Norton reasoned. "Some daily-fees have membership bases ... and their members are also in tune with clubhouse amenities."

The survey made other interesting discoveries among daily-fee facilities:

- The country's hot spots — southern Florida and southern California and western Arizona — made fewer improvements in their courses, maintenance buildings, clubhouses and infrastructure than anywhere else in the country over the last five years?

"That's because they have newer facilities," Norton said.

- On the other hand, nine out of 10 ownerships in the Atlantic Coast region from Massachusetts to Maryland have done renovation work on their courses in the last five years.

"That's because they are older properties," Norton said.

- More courses in the area from northern New England through northern Michigan and Wisconsin than anywhere else — 93 percent — made capital purchases of maintenance equipment and golf cars in the last five years, averaging \$49,400 a year.

That statistic eludes explanation, Norton said.

- The Rockies Mountains east through the Dakota and Nebraska is the "youngest" area in the country in terms of golf courses.

Does that mean it's a prime area for would-be developers to investigate? Norton warned: "There ain't no slam dunks. You have to be highly selective, very sure you've got a population base. Some areas you think might be a bad place to build, would be prime if you have the concept. Areas that look good, might not be. Every location must be looked at for its own merits."

- Golf car use is not required in seven of every 10 courses in Northern California and the coasts of Washington and Oregon.

- In Northern regions there is a trend toward smaller golf car fleets and the easing of golf car usage requirements. The average fleet size in the region was 58 cars, of which

71 percent were leased.

"That area has a long history of golf," Norton said. The Northeast, Midwest and Northwest are a walking mecca, whereas the Sunbelt is a golf car-dominated area.

"The reason is that the courses in the North tend to be older and have an older tradition that includes walking. Newer courses have a higher debt service."

- Texas, Oklahoma and New Mexico have the lowest median golf car fee (\$8) anywhere in the country.

- Average annual expenditures over the last five years nationwide include \$20,300 for maintenance

building construction/renovation; \$49,400 for maintenance equipment/golf car purchases; \$28,000 for irrigation installation/upgrade; and \$20,500 for infrastructure improvements.

"This [survey] is the format we will take into the future. We will get trend data when we do it again in two years," Norton said. He added that the NGF will begin to do the surveys every other year: the municipal survey one year and daily-fee and private surveys the next.

The reports are available from the NGF at 1150 South U.S. Highway One, Jupiter, Fla. 33477; telephone 407-744-6006.

CMAA survey paints frightening picture

ALEXANDRIA, Va. — The Club Managers Association of America (CMAA) has announced results of a survey on the projected effect of losing dues and meals deductions.

The survey was commissioned in response to the Omnibus Budget Reconciliation Act of 1993 (S.1134), which would reduce the deductible portion of business meals and entertainment expenses from 80 percent to 50 percent and

would also eliminate the deduction for club membership fees. The survey shows that the legislation could result in:

- A loss of more than 12,500 full-time and 11,000 part-time employees, for a total of 23,500 employees in the 3,000 clubs represented by this sample;

- A loss of more than \$273 million in full-time payroll and \$100 million in part-time payroll, for a total of \$373 million in these businesses.

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of both cultivars: the color, texture, density, disease resistance, and heat and drought tolerance are outstanding.

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important to superintendents, golfers, architects, and greens committees.

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Neyrey, Marr join Desert Mountain

SCOTTSDALE, Ariz. — R.R. "Dick" Neyrey has been appointed president of Desert Mountain Properties, the organization responsible for developing Desert Mountain's 8,000-acre residential and recreational community in Scottsdale.

Neyrey reports to the executive committee of the joint venture, which includes Bill Deihl, Lyle Anderson and others. Desert Mountain is a joint

venture between DM Land Corp., a subsidiary of Mobil Land Development, and Sonora Partners Limited Partnership, a local development company owned by Anderson.

Meanwhile, David Marr III has been appointed vice president, The Tradition, for Desert Mountain Properties. Marr will be responsible for marketing of major sponsorships, business planning and overall tournament management.

Marketing Idea

Continued from page 31

questions, Otter Creek discovered many golfers didn't know it was acceptable for recreational players to bend the games formal rules. Doing so, they soon discovered, made the game more enjoyable for them and trailing foursomes they may have been delaying. Communication, specifically letting customers know about the program and inviting questions, are the keys to its success, Hatten said.

A sign announcing PaceSetter hangs outside the entrance to the

pro shop making golfers immediately aware of the program. Reminders are posted at the snack bar, in the rest room, on score cards and at various points along the course.

Pamphlets are available explaining practical ways to speed play — everything from placing clubs on the side of the green nearest to the next hole to playing your ball first before helping others locate lost balls. While collecting greens fees, cashiers explain the program and inform golfers the ranger and starter will discuss the 15-minute-per-hole time limit.

Ranger and starter introduce

themselves and review PaceSetter at the first tee. A foursome captain is appointed and held responsible for keeping the group on time. An orange tag is placed on his bag, designating him the leader. Groups are sent off at 10-minute intervals.

The ranger checks with the captain at the 4th and 9th holes. If the group is on time at the first checkpoint, the ranger thanks the captain for doing his job. If not, he asks the captain to try to pick things up. If the group is back on schedule at the turn, the ranger rewards the foursome by giving each golfer a \$1 token redeemable at the snack bar.

"Positive reinforcement is very important," Hatten explained.

Eighty percent of golfers follow Otter Creek's rules, Hatten estimated. The other 20 percent may have problems keeping pace. But most make every effort to do so. Hatten said that only four out of every 100 golfers are likely to squawk about the program.

Formal training sessions, which include role playing, help rangers deal with those people, Hatten explained.

Say someone complains he's paid his money, a lot of money in his estimation, and isn't about to hurry around the course. The ranger is trained to explain how one person can hold up everyone behind him. If the group is playing from the championship tees and obviously finding them difficult, he might suggest moving to one of the forward tees. If all else fails, he is free to offer the group a full refund.

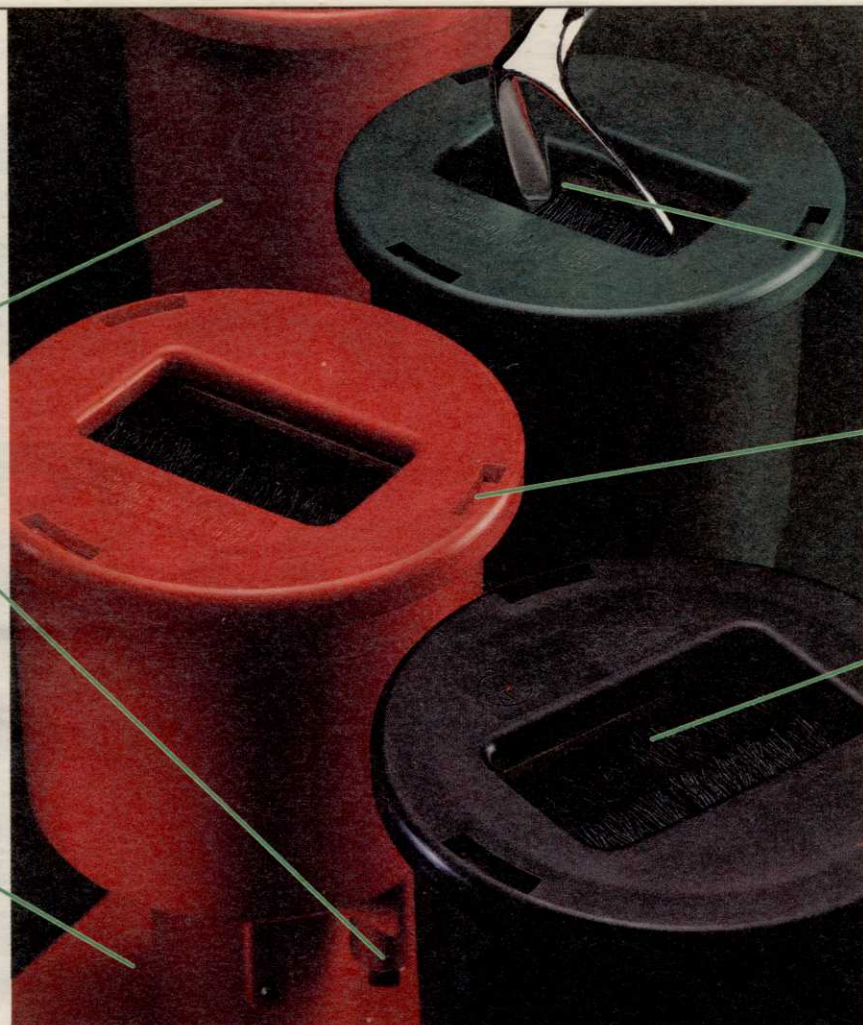
But sometimes, even that doesn't work, Hatten said. The ranger is trained not to confront the obstinate golfer. Instead, he is told to contact the head pro, 11-year veteran Greg Bishop, who personally reinforces everything the ranger has explained. If the group still can't keep pace, they are again offered a full refund and encouraged to return at a less busy time.

"We've never had to kick anyone off the course," Hatten said.

While confrontations between golfers and rangers occasionally occur, cooperation is more common. "For example, say a ranger comes on a foursome with a lost ball," Hatten explained. "First he makes sure that everyone else hits while he helps search for the lost ball. After the others have hit, they can join the hunt."

"If they can't find it within five minutes, the ranger has two options. Eighty percent of golfers aren't playing a formal match. So the ranger offers the golfer a new ball with the Otter Creek logo, encourages him to take the penalty and hit from the fairway. If the golfer wants to tee up again, the ranger drives him back to the tee, explains the situation to the following group, stays while the golfer tees off again, and then helps him catch up with his group."

"Normally, people are willing to take liberties with the rules of golf if someone gives them permission. We tell them it's okay and it helps speed play."



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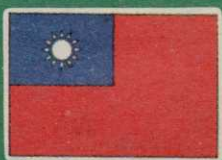
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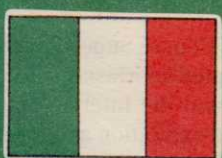
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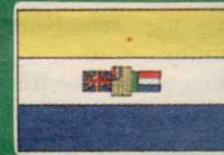
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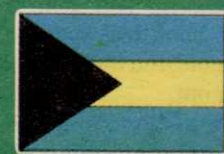
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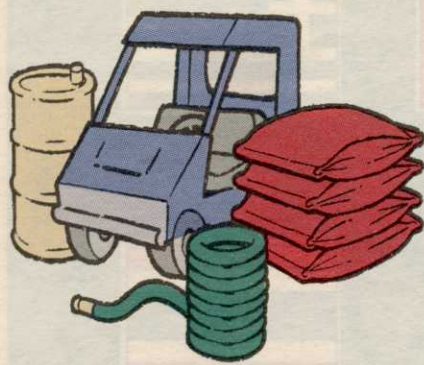
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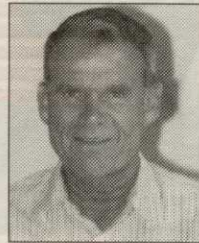


NG, HAYES JOIN ENVIRONMENTAL CARE

CALABASAS, Calif. — Arnold Ng and James Hayes have both joined Environmental Care Inc. Ng was appointed the new national sales manager overseeing the sales and marketing programs in branches throughout the U.S., while Hayes is now responsible for the development and expansion of the water management programs division. Ng has 12 years of professional sales and marketing experience at Xerox, Xerox Learning Systems, and The Klabin Company. Hayes brings national operations and marketing experience from firms such as the Steiner Corp., Community Linen Services, where he was vice president and partner, and Corporate Video Services, of which he was president.



Arnold Ng



James Hayes

MIDGETT JOINS BRIDGE BUILDERS

FRANKLIN, N.C. — Ken Midgett has joined the staff at Bridge Builders, a division of Fox Lake Construction. Midgett, who has been involved in all phases of golf course construction during his career, will oversee all construction activities for Bridge Builders. For more information, call 1-800-874-9403.

CURLAN GETS CALIFORNIA EPA OK

SACRAMENTO, Calif. — Curalan fungicide, a product of BASF Specialties Products, has received registration for use in California from the state's Environmental Protection Agency. Curalan, with the active ingredient vinclozolin, is labeled for use on all turfgrasses and ornamentals. It is designed to prevent and control dollar spot, brown spot, leaf spot, pink and gray snow mold, red thread, pink patch and melting out.

E-Z-GO, BRUEDAN JOIN FORCES

CHESTER, N.Y. — E-Z-GO Textron, the golf car/utility vehicle manufacturer based in Augusta, Ga., and Bruedan Corp., one of the largest golf car distributors in the nation, have reached a distribution agreement that will cover much of the Northeast United States. Bruedan will now represent E-Z-GO in Connecticut, Rhode Island, Massachusetts, Vermont, New Hampshire, Maine and parts of New York. Bruedan has sales and service locations in Bolton, Conn., Swansea, Mass., and its headquarters here.

Gas golf cars may get 2-year reprieve in Calif.

By HAL PHILLIPS

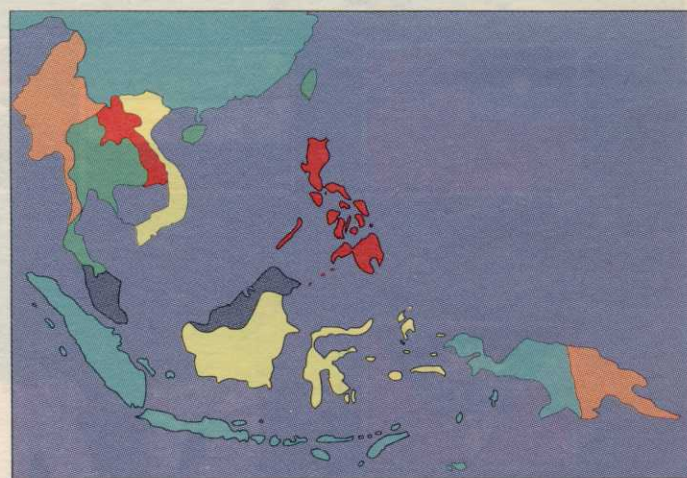
SACRAMENTO, Calif. — The official word from the California Air Resources Board (ARB) is this: No decision has been made on the classification of gasoline-powered golf cars; more specifically, when they will be banned.

Gas-powered golf cars will be phased out in California — the question is "When?" A timetable on the elimination is expected from the ARB sometime this month, according to an ARB spokesman. However, unnamed sources inside the California bureaucracy have indicated board members are leaning toward a two-year extension of the deadline. This would mean elimination of gas-powered cars would be required by Jan. 1, 1997, as opposed to the previous deadline: Jan. 1, 1995. [According to the National Golf Car Manufacturers Association, there are approximately 14,000 gasoline-powered golf cars employed in California.]

This extension would mark a change of heart from the ARB — but both sides have changed their respective minds and positions in the four years this issue has been debated.

In 1990, NGCMA successfully petitioned to be classified outside "first-tier" regulations, which apply to lawn and garden equipment. In 1991, when it appeared gas-powered golf cars would be regulated more harshly than "first-tier" vehicles, the NGCMA reversed itself and petitioned again for "first-tier" status. As late as 1992, NGCMA was under the impression the ARB would, indeed, grant golf cars "first-tier" status. However, in August 1992, ARB suggested a Jan. 1, 1995, deadline for the elimination of gas-powered golf cars, whereas "first-tier" vehicle remain in service until Jan. 1, 1998.

The Jan. 1, 1997 deadline — should it come to pass — would be a compromise. Industry executives and air-quality bureaucrats agree gas-powered golf cars will eventually be banned in California. However, until ARB renders a decision, the question remains, "When?"



GCSAA limits role in Asia

By HAL PHILLIPS

LAWRENCE, Kan. — The Golf Course Superintendents Association of America (GCSAA) has opted for a lesser role in Golf Asia '94, leaving Connex Private Ltd. and the International Management Group (IMG) to manage the exhibition and trade show on their own.

According to IMG spokesman Bart Collins, much of the *status quo* remains: GCSAA will conduct the golf course maintenance seminars prior to the Singapore trade exhibition. However, the program will be less elaborate than originally planned, he said, and the association will not be involved in show management.

"I think the association has a little more insight about what our mission is over there," explained Randy Nichols, GCSAA president. "We, as an association, feel it's very important we continue our mission of educating people over there... And for our vendors, we feel it is very important to offer these sessions to draw people in to look at their products."

"But last year our education program lost some money over there. We probably offered too much."

Continued on page 38



NEW PRODUCT OF THE MONTH

The Groom Master from Ransomes America Corp. is not a new product. But Landscapes Unlimited, a golf course construction firm based in Lincoln, Neb., has found a new use for it. Traditionally used for bunker maintenance, the Groom Master is being used for greens construction (above). For more new products, see page 41.

Seed companies focus on golf course support

BOUND BROOK, N.J. — Lofts Golf Course Service and Support Division will now offer a complete seed and fertilization source, backed with the technical support required of a grow-in situation.

The Lofts/Tee Time Grow-In Program, developed by Lofts' Director of Research Dr. Richard Hurley, combines the company's turfseed varieties with the line of Tee Time fertilizers manufactured by The Andersons of Maumee, Ohio.

The program was designed to address the unique soil conditions encountered while constructing new golf courses. For more information, contact John DeMatteo at Lofts Seed at 908-560-1590.

POST FALLS, Idaho — Jacklin Seed Co. has introduced JacklinGolf, a service and technical support team dedicated to the needs of golf course architects, builders and authorized distributors.

JacklinGolf's specially trained staff is made up of turfgrass specialists and research personnel, all dedicated to providing expertise and technical support necessary to assist with any golf course turfgrass decision or problem. The service can be accessed by calling 1-800-760-4321.

Miles offers market support program

KANSAS CITY — Miles, Inc. Specialty Products has announced a new market support program for distributors of its turf and ornamental pesticide products. Distributors of Miles-marked products will now be eligible for the manufacturer's new promotional allowance program.

The allowance, calculated as a percentage of a distributor's total use-year purchases and based on proof and promotional expenditures, can be used to fund advertisements in state and local publications, support state and local association activities, as well as university research efforts.

Association activities that qualify for funding include speakers, luncheons, research foundations and special projects. University research funding should be directed to schools in the distributors area of business. For more information on the Miles Turf & Ornamental Market Support Program, contact the Miles, Inc. field sales representative or distributor in your area.

...

In other Miles news, Jim Dotson has accepted the position of research product manager for turf and ornamental products. Since joining Miles in 1982, Dotson has been involved in product research on many levels, most recently as field research and development coordinator for Specialty Products in the northeastern U.S. In his new role here at Miles corporate headquarters, Dotson is heavily involved in research involving Merit insecticide, which awaits EPA registration.



Jim Dotson, research product manager

Jacobsen offers three autumn finance plans

RACINE, Wis. — Jacobsen Financial Services has announced three special fall finance programs for the U.S. and Canada.

The first program, "Cash in May, Same as Today," allows Jacobsen customers to take delivery on any amount of new Jake equipment from now until Jan. 31, 1994, and pay for the equipment in May 1994.

The second program, "No Pay 'Til May," allows customers to take delivery on any amount of new Jacobsen equipment between now and Jan. 31, 1994, and make no payments until May 1994.

The third program, "Select-A-Term," allows customers to take delivery on any amount of new Jacobsen equipment between now and Jan. 31, 1994, and select the finance terms and payment plan that best fits their turf equipment budget.

Both "level" and "6-on/6-off" payment schedules are available for the "No Pay 'Til May" and "Select-A-Term" finance programs. All three are conditional sales contracts which require a minimum 10 percent down payment. For more information, contact Jacobsen Financial at 414-637-6711.

BALCOM JOINS HYUNDAI IN ELK GROVE

SANTA ANA, Calif. — Hyundai Golf Cars, U.S.A. has appointed Bruce Balcom as regional sales manager for the Northern California market. Headquartered in Elk Grove, Balcom will develop on-course contacts and supervise sales and service throughout Northern California. Balcom had held positions with Melex and E-Z-GO for more than 12 years, and managed golf car dealerships in California and Arizona.

Golfturf & RGF to develop golf products jointly

NORTH PALM BEACH, Fla. — Golfturf, a division of Golden Bear International, Inc., and RGF Environmental Systems have announced their intention to develop environmental products for the golf course industry. Golfturf will consult with RGF on the development and application of equipment, facilities and systems for golf courses that will enhance environmental programs.

"The golf course industry works hand-in-hand with the environment, and we want to develop even more ways to create positive impacts on the surroundings of the golf course," said Edward Etchells, president of Golfturf.

RGF, a worldwide manufacturer of waste-water recycling and environmental products, is developing a full line of environmental compliance products for golf course superintendents and maintenance professionals. Golfturf will assist in the development and aid in the actual application of devices for ongoing use at golf courses.

RGF and Golfturf projects include: Wash-water recycle equipment, an ozone pond—purification system, pesticide storage facilities (the Ultra Shed System), and a hands-free mix and load device.

Woods acquires Du-Al Manufacturing

OREGON, Ill. — Woods Equipment Company, a manufacturer and marketer of tractor-powered mowers, cutters and other accessory implements, has acquired the assets of Du-Al Manufacturing Company, a manufacturer of tractor-mounted front-end loaders, backhoes and trenchers, for an undisclosed amount.

The acquisition strengthens Woods' market position considerably: simultaneously broadening its tractor-related product offerings and retail distribution.

"The addition of Du-Al's front-end loaders and trenchers to the Woods product line allows us to provide our dealers with a full line of tractor-related implements," said Tom Laird, president and chief executive officer of Woods Equipment Co. "This will significantly improve our ability to win in the marketplace."

Du-Al manufactures 12 different models of front-end loaders for various tractor sizes ranging from 11 to 200 horsepower. A wide

variety of custom mountings enables its loaders to fit approximately 1,200 different models of both new and used tractors.

In addition, Du-Al manufactures a state-of-the-art line of commercial size backhoes adaptable to farm tractors and skid-steer loaders.

The acquisition increases Woods' presence in the marketplace, adding approximately 300 new Du-Al dealers to Woods' existing base of 3,800. Woods also acquires the Du-Al manufacturing facilities in Sioux Falls, South Dakota where the front-end loaders are manufactured.

Woods also adds tractor-mounted trenchers to its product line and increases its offering in backhoes as a result of the purchase.

Du-Al Manufacturing Co., based in Sioux Falls, South Dakota, is a stand-alone division of Core Industries Inc., a publicly-traded (NYSE) company.

Pickseed Canada moves offices to Lindsay, Ontario

LINDSAY, Ontario, Canada — Pickseed Canada Inc. has relocated its Canadian head office here.

The company, a sister firm to Pickseed West in Tangent, Ore., had been operating from Richmond Hill, Ontario, for more than 43 years. But the pressures of urban growth caused owners Tom and Martin Pick to reestablish the company's rural roots.

In September 1993, head office operations, seed production, and wholesale distribution were transferred to the Lind-

say office. The new building boasts more than 92,000 sq. ft. and sits on 16 acres west of Highway 35 on the north side of Highway 7.

Other Pickseed Canada operations include the Seed Corn Business Unit and Research Station at Tilbury, Ontario; and sales & distribution offices in Edmonton, Winnipeg and Saint-Hyacinthe, Quebec. Mapleseed Inc. of Oakwood, Ontario will remain a separate company but will likely relocate to the Lindsay plant later this year.

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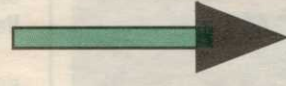
The Official Golf Publication of Golf Asia '93 and Golf Asia '94

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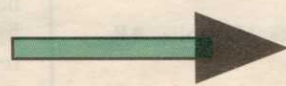
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GCSAA diminishes role at Golf Asia '94

Continued from page 36

Nichols noted that his organization has closed its Asia-Pacific office in Singapore. The GCSAA, however, will continue to associate itself with Golf Asia through solicitation of its client base in the United States. GCSAA has also agreed to organize a consolidated shipment of exhibitor material to Golf Asia '94, following its trade show in Dallas next January.

"We want to have a relationship with GCSAA," said Collins, who works from the IMG office in Singapore. "But it's out of our hands. Randy Nichols felt the association needs to get back to basics."

"The market here, which includes Golf Asia, is still evolving. It wasn't all that long ago that GCSAA was prepared to go it alone in the region. At least we've succeeded in consolidating the two shows."

Indeed, GCSAA held a separate, competitive trade show in Singapore a week prior to Golf Asia '93 in March. But soon after Connex and IMG jointly formed Golf Asia Exhibitions Ltd in May, GCSAA signed on as a third partner.

In late August, however, GCSAA Executive Director John Schilling — the driving force behind the association's Asia-Pacific interests — resigned. GCSAA's decision to diminish its role in the region was an-

nounced soon thereafter.

[Schilling's new company, Lawrence-based St. Andrew's Corp., will exhibit at Golf Asia '94, according to Schilling.]

Nichols was asked whether the association's diminished role in Asia-Pacific was a reaction to concerns voiced by U.S. members.

"What we have heard from the membership are financial concerns," he said. "They don't want us to take the resources they've built up and blow it overseas. But they need education in that region and we feel it's part of our mission to provide it."

WIS-CON HAS NEW ASIAN PARTNER

Fuji Heavy Industries Ltd., a manufacturer of low-horsepower engines based in Japan, has severed its North American distribution agreement with Wis-Con Total Power Corp., effective Nov. 13, 1993. A new company, Robin America Inc., will market Fuji's low-horsepower gasoline and air-cooled diesel engines through current and newly appointed distributors. Dae Heung Co. Ltd. has taken Fuji's place, reaching a long-term supply agreement with Wis-Con.

Golf Asia Notebook

Golf Course News official publication for March '94 show

SINGAPORE — *Golf Course News Asia-Pacific* has once again been named the official golf publication of Golf Asia '94, the region's largest golf exhibition and conference, scheduled for March 21-27, here at the International Merchandise Mart.

Golf Course News Asia-Pacific was also official publication of Golf Asia '93. It will serve in a similar capacity at the Pan Asia Golf Conference, Nov. 22-23, 1993, in Hong Kong.

Information can also be sent to the United States office, 38 Lafayette St., Yarmouth, ME, 04096. Telephone: 207-846-0600; fax — 207-846-0657.

...

Raw indoor exhibit space at Golf Asia '94 is \$5420 per square meter. Minimum booking for raw space is 24 square meters.

The indoor exhibit space and shell scheme rate is \$5490 per square meter. The minimum booking for the shell scheme is 12 square meters.

For more details and booking information contact Show Manager Connex Private Ltd. in Singapore by phone at 296-6961; or by fax at 293-5628.

...

According to Catherine Mahoney, manager of Export Promotion Services at the **United States Department of Commerce**, there are 157 golf courses under construction or in the pipeline to be completed by the year 2000.

Within the next four years, she said, the potential golf course development market will be estimated at US\$8 billion.

Synthetic Industries adds production line

RINGGOLD, Ga. — To meet the rapidly growing demand for its nonwoven geotextiles, Synthetic Industries has now installed a second polypropylene production line in its recently completed plant here.

Opened in 1992, this modern manufacturing facility, with its state-of-the-art equipment, now has doubled production capacity of its needle punched, non-woven polypropylene geotextiles. This broad line is engineered for use as liner cushions, subsurface drainage systems, asphalt roadway overlays, and erosion control involving rock rip rap. Synthetic Industries' Construction Products Division also manufactures and markets a full line of woven geotextiles and a full line of erosion and sediment control products.

Literature is available from Construction Products Division, Synthetic Industries, 4019 Industry Drive, Chattanooga, TN 37416. Phone: 615-892-8080. Fax: 615-499-0753.

LANDCADD software offered on IBM RISC

ENGLEWOOD, Colo. — Golf course designers and land planners can now choose LANDCADD's environmental software currently available on IBM's newly announced RISC System/6000 models using PowerPC technology. LANDCADD has announced it will port its software products to the IBM RISC Systems/6000 platform.

Many federal agencies are standardized on the IBM RISC System/6000 as it is a POSIX compliant operating system. This agreement will allow these government entities and future LANDCADD customers to use LANDCADD and AutoCAD software on the fastest available workstation in the industry.

The agreement and technical developments between LANDCADD and IBM were unveiled at the UNIX Expo in New York City in September.

Lesco earns a spot in Platinum Tee Club

LAWRENCE, Kan. — Lakeshore Equipment Supply Company, better known as Lesco, Inc., has donated \$5,000 to match the "seed" gift made by the GCSAA board of directors when the association established the Emergency Assistance Fund.

The fund was created to provide emergency assistance to GCSAA members who have suffered personal losses as a result of natural disasters. The fund was prompted by the recent Midwest flooding, but will remain a permanent source of assistance.

With the gift, Lesco becomes the newest member of the GCSAA Platinum Tee Club, a group of companies, golf clubs and golf associations that contribute \$5,000 or more annually to help fund GCSAA S&R operations. Last year, Platinum Tee Club members contributed more than \$200,000 in support of GCSAA programs. Lesco will be honored for the contribution during the 1994 GCSAA International Golf Course Conference and Show in Dallas next February. Donations should be sent to: Disaster Relief Fund, GCSAA Development Department, P.O. Box 927, Lawrence, KS 66049-0927.

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CIRCLE #132

Milorganite meets federal waste standard

MILWAUKEE — The Milorganite Division-MMSD has announced that its Milorganite fertilizer has met the requirements of federal law 40 CFR Part 503.

Issued by the Environmental Protection Agency as part of the Reauthorization of the Clean Water Act, 40 CFR Part 503 regulates the disposal and reuse of biosolids by establishing Exceptional Quality criteria.

According to Milorganite Director of Marketing Alan Nees, "Exceptional Quality products contain similar heavy-metal levels to other fertilizer products and have been processed to ensure pathogen control and product stability. Actually, Milorganite has met most of the EQ criteria for years. But until the 503's were issued, no standard for quality of biosolids existed."

Stone Environmental golf service available

MONTPELIER, Vt. — Stone Environmental, Inc. now offers pesticide consulting services to golf courses seeking permits for pesticide use from the Vermont Department of Agriculture (VDA).

According to Stone principal Christopher Stone, the company will provide scientific and regulatory expertise to Vermont's golf course turf managers who are developing the comprehensive pest management plans now required by the VDA to qualify for permits.

Initial consultation is free, according to Stone.

For more information, contact Michael Lewis at 802-434-2630.

Precision Labs offer decontamination kit

NORTHBROOK, Ill. — Precision Laboratories, Inc. now offers a decontamination kit that fully complies with a recent EPA regulation which expands worker protection standards.

According to the regulation, which will be enforced beginning April 15, 1994, employers must provide their pesticide handlers with equipment for decontamination. Employers who deal with fertilizer and chemicals, as well as those in the professional and landscape markets are potentially affected by the law. Precision's decon kit enables employers to fully comply with this law. For further information on compliance, call 1-800-323-6280.

In wake of Zoecon merger, Sandoz retools specialty division

DES PLAINES, Ill. — Sandoz Agro, Inc. is attempting to strengthen its presence in the growing turf, ornamental and industrial vegetation management markets through a reorganization of the company's specialty division. Sandoz's merger earlier this year with affiliated Zoecon Corp., an animal health and specialty products company, has led to the creation of an expanded sales and marketing team for specialty products.

"The merger enables us to draw

from the resources of two strong organizations to create a new team within the division that is even more customer- and market-focused," explained Mark Hodgson, vice president of the company's Specialty Division. "The team combines the talents of people from both Sandoz and Zoecon who have a wealth of industry knowledge and experience."

Sandoz Agro's specialty business unit now encompasses a broader range of products for pest management. In addition to turf,

ornamental and IVM industries, the division now includes public health and professional pest control products, which will remain under the Zoecon label.

Joining Sandoz as Director of Specialty Products is Carl Tanner, who was most recently manager of Zoecon's Specialty Products Division at the company's former headquarters in Dallas. He will oversee marketing, advertising and public relations products in all five division industries.

Ronald P. Fister, director of

Specialty Sales, will continue to supervise national sales of the company's turf, ornamental and IVM products. Ed FitzHarris is national sales manager of Zoecon's professional pest control lines.

The team's three business managers — Jeffrey Cook, Gary Clayton and Manny Martinez — likewise bring expertise in a variety of industry and product management programs. In addition, Aida Oliver has been named to the newly created position of marketing services coordinator.

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holding capacity up to 12% in USGA-type mixes and up to 30% in all-sand mixes.*

Improves Fertilizer Efficiency. Its extremely high CEC increases nutrient holding capacity and reduces leaching losses of potassium and micronutrients (usually very mobile in sand-based systems).

Improves Quality and Vigor. In tests at Michigan State University, SAND-AID "improved turf quality as well as stress tolerance." Its "effectiveness increased over time and the more intense the stress, the more obvious" the benefits.

Jump-Starts Microbial Activity by serving as an immediately available food source for soil microbes. SAND-AID's rapid organic fraction helps reduce vulnerability to diseases associated with high sand content/ low organic matter like Root Pythium, Curvularae, Take-All Patch and Summer Patch.

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*Tests conducted on USGA-type rootzone mixes in 1991 and 1992 by Turf Diagnostics and Design, and independent testing laboratory. ©1993, Emerald Isle, Ltd.

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Gentile-Murray to rep for Geoflow

Geoflow, Inc., manufacturers of subsurface drip irrigation products, has retained Gentile-Murray Associates to represent it throughout Southern California, according to Karen Ruskin Ferguson, marketing vice president.

Tom Gentile and Rich Murray, principals of Gentile-Murray Associates, will provide sales and technical support for irrigation and

landscape designers utilizing subsurface drip irrigation methodology.

Geoflow drip line is unfused with Rootguard, a chemical designed to prevent root intrusion into the emitters making subsurface drip irrigation dependable and easy to use.

For more information, contact Karen Ruskin Ferguson at 415-331-0166.

Collins joins Pest Management

HADLEY, Mass. — Pest Management Supply Inc. has named Dr. Don Collins director of sales for the firm's Weather Intelligence Division. Collins will be responsible for introducing the benefits of on-site weather monitoring for irrigation and insect, disease and weed management to golf course superintendents, turf managers. Collins, who previously worked for Neogen, will be based in Pest Management's Midwest sales office in St. Louis, Mo.

Fungisol gets conditional EPA approval

LOS ANGELES — The J.J. Mauget Company has announced that Fungisol debacarb fungicide has been conditionally re-registered by the Environmental Protection Agency (EPA) while additional tests are being conducted. The re-registration is based on an extensive agency review conducted over the past three years.

"It may be assumed that the degree to which the Mauget micro injection system mini-

mizes human and environmental exposure was a factor in the decision to re-register Fungisol," said Dale I. Dodds, Mauget president and general manager. "It continues to be an extremely important defense against leading pathogens that infect shade trees."

The product began EPA review more than three years ago as part of the government's plan to reduce the number of pesticidal compounds entering the environment.

Wessel promoted at Reemay, Inc.

OLD HICKORY, Tenn. — Reemay, Inc. has announced that Monica Wessel has been promoted to the position of international sales manager for the firm's International Business Unit. Wessel had spent the last three years as Reemay's marketing communications manager. Replacing Wessel as marketing communications manager is David Molesworth, who moves up from his spot as sales representative for Typar HouseWrap. Molesworth has experience in manufacturing supervision as well as television production and advertising. For more information, call Reemay 615-847-7000.

Golf Course Expo

Continued from page 1

Green Section, the nation's university research community, and certified golf course superintendents.

Speakers in the Management Program will include industry leaders experienced in managing and marketing profitable, progressive golf operations; continuing the tenor and tradition of the Public Golf '92 and '93.

"At *Golf Course News*, we're not merely in the newspaper business — we're in the communications business," said von Brecht. "Events like Golf Course Expo allow industry members to meet, learn from each other and assess products in the marketplace. We feel superintendents and owners at daily-fee facilities haven't really had those opportunities — until now."

Golf Course News is owned by United Publications, Inc., a publisher of specialized business press based in Yarmouth, Maine. The Conference Division at United, led by Rebecca Quinlan, organizes no less than seven conferences and trade shows each year, including Public Golf '93 and Systems Support Expo, a computer exhibition and symposium which drew 5,000 people to Boston's World Trade Center in May 1993.

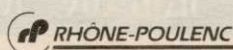
For more information on Golf Course Expo, contact the Conference Division at 207-846-0600.



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Brightstar Perennial Rye from Turfseed

"BrightStar Perennial Rye-grass, as the experimental cultivar GH-89, has set a new standard for dark color as well as very high turf quality ratings," says Dr. William A. Meyer, vice president for research at Turf-Seed, Inc. "BrightStar topped the NTEP Perennial Ryegrass Trials in 1992 for color, and has added a new dimension to winter overseeding trials across the South.

"BrightStar has the other qualities expected from a new generation ryegrass: High endophyte level, low vertical growth, good

disease resistance and a reduced need for fertilizer and chemical tools," says Meyer, "but its extremely dark color sets it far apart from cultivars presently available. We expect BrightStar to be the perennial rye the others will shoot at."

BrightStar is available in Alliance and Sonoran Brand Ryegrass blends, and as single cultivar in limited quantities this fall. For more information or the name of a distributor in your area, call Tom Stanley, Turf-Seed, Inc. marketing director at 1-800-247-6910.

CIRCLE #301

Par Aide signage — polite, to the point

Any golf course superintendent who's faced the frustration of players failing to note course signage will appreciate the new signage system from Par Aide. Touted as a way to "Tell 'em where to go and what to do — politely," the signs are designed to get the message across, efficiently.

Made of bullet-proof Lexan plastic, the signs are easy-to-read and fade resistant. High performance industrial adhesive bonds the signs to impact-

resistant PVC stakes and eliminates the need for assembly tools. A variety of signs are available with pertinent, concise messages on a highly visible 6-inch x 11-inch surface.

For more information on Par Aide's Course Signage System, contact Par Aide Products Company at: 3565 Hoffman Road East, St. Paul, MN 55110. For the name of the Par Aide dealer nearest you, call 612-779-9851.

CIRCLE #302

Turfline roller fits Jake, Toro

Turfline, Inc. has just patented its True-Surface Vibratory Greens Rolling System, which is designed as an attachment to Toro and Jacobsen riding mowers.

The physical weight of a True-Surface Roller is designed to approximate the physical weight of a standard, triplex greensmower. The hydraulic motors provide a source of vibration to create the needed weight to roll a green or tee — without the excessive weight of competitive models.

The two, 22-inch rollers are designed to better follow contours than 36-inch riding rollers. For more information on the True-Surface system, call Turfline, Inc. at 1-800-443-8506.

CIRCLE #303

Oil designed for mower engines

Phillips 66 Co. has introduced a newly formulated 2-cycle motor oil, INJEX™ TC-W3, for increased protection and improved operation of both air- and water-cooled 2-cycle engines. INJEX is intended for use in both oil-injected systems and in fuel systems requiring gasoline/oil mixtures. The oil is designed to reduce piston scuffing and ring sticking in both air- and water-cooled marine outboard engines as well as in other 2-cycle engines such as those used in golf course equipment.

INJEX 2-cycle oil, blended with a new ashless additive package, reduces ring sticking because of its improved detergency, the company said.

For more information, please contact Phillips 66 Lubricants Division, 418 Credit Union Building, Bartlesville, Okla. 74004. Telephone: 1-800-766-0050.

CIRCLE #304

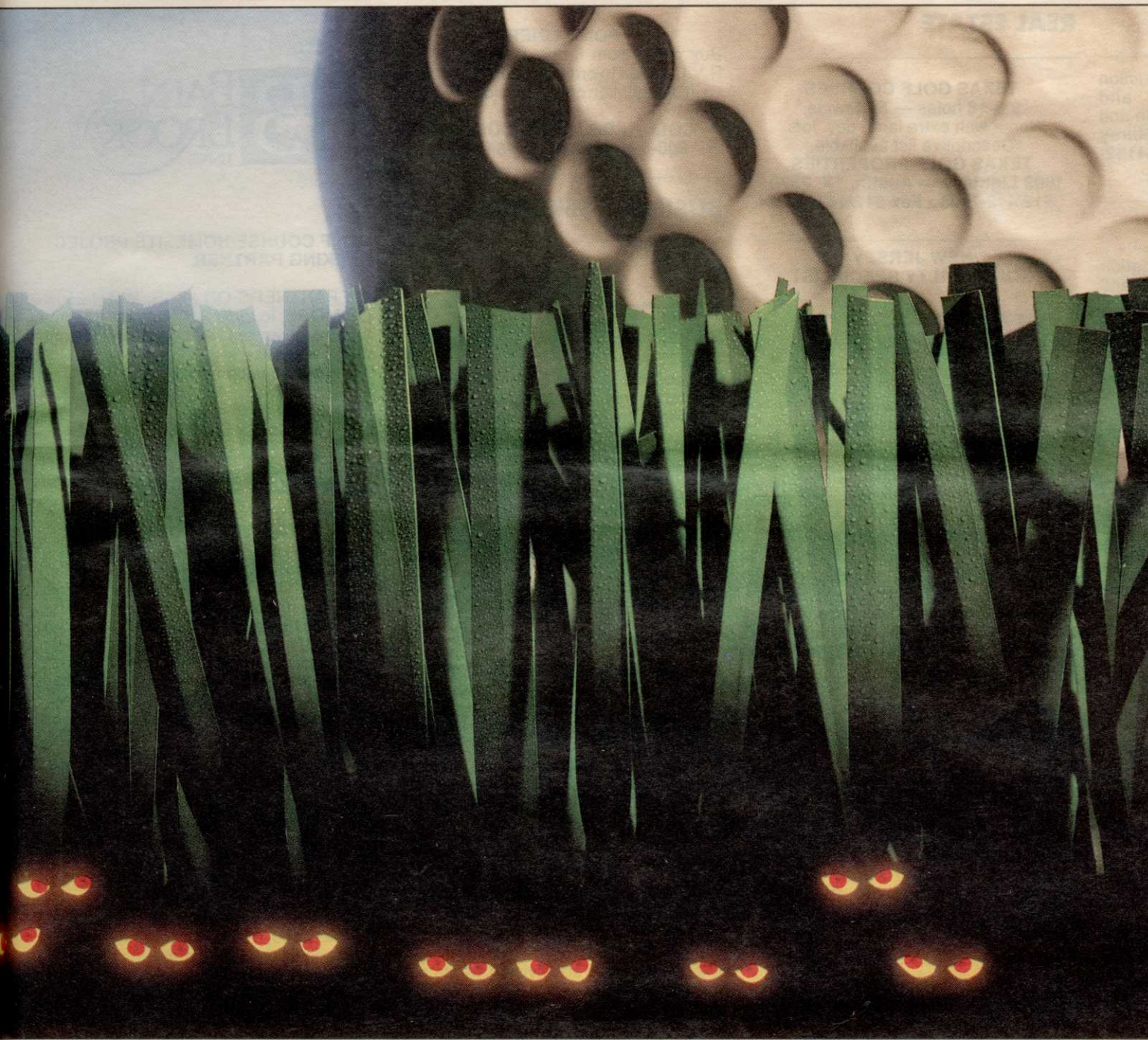
Smithco Super Rake, super quiet

The Super Rake bunker groomer from Smithco uses advanced engineering features to reduce sound levels and provide quieter operation. The rake's combination of a new, quiet engine and a noise-dampening hood design deliver substantially lower sound levels during operation.

The Super Rake now utilizes a new, super quiet Vanguard 16-hp engine, known for its quiet operation. Then new operator-friendly engine is standard equipment. The rake's new hood design uses heavy fiberglass to reduce sound. Together, these new features result in sharply reduced operational sound.

Another new feature on Super Rake is its single pedal control. For more information, contact Smithco at 11 West Avenue, Wayne, Pa. 19087; or call 215-688-4009.

CIRCLE #305



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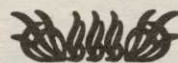
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November

14-16 — *Golf Course News Public Golf '93 Conference in Charleston, S.C.* Contact GCN conference group at 207-846-0600.

14-17 — *Clemson Golf Turfgrass Conference and Championship in Myrtle Beach, S.C.* Contact 800-476-GCSA.

14-18 — *Professional Grounds Management Society's 82nd Annual Conference in Baltimore.* Contact 410-584-9754.

15 — *GCSAA seminar on Maximizing Turfgrass Disease Control in Myrtle Beach, S.C.**

15-16 — *GCSAA seminar on Golf Course Restoration, Renovation and Construction Projects in St. George, Utah.**

15-16 — *Oregon Turf and Grounds Maintenance Exhibit in Portland.* Contact D.L. Tom Miller at 503-635-6867.

15-18 — *Green Industry Expo/93 in Baltimore.* Contact 404-973-2019.

17 — *GCSAA seminar on Turfgrass Stress Management in Oklahoma City.**

19 — *GCSAA seminar on The Microbiology of Turfgrass Soils in Tehachapi, Calif.**

20-21 — *GolfDaytona Beach Golf Expo in Daytona Beach, Fla.* Contact Dick Clark at 904-239-7065.

29-30 — *GCSAA seminar on Environmental Considerations in Golf Course Management in Omaha, Neb.**

30-Dec. 2 — *Southern Turfgrass Ass'n Annual Conference and Show in New Orleans.* Contact 901-377-7194.

December

1-2 — *GCSAA seminar on Golf Course Restoration, Renovation and Construction Projects in Fond du Lac, Wis.**

1-3 — *40th Rocky Mountain Turf Conference and Trade Show in Denver.* Contact 303-688-3440.

7-8 — *GCSAA seminar on Golf Course Restoration, Renovation and Construction Projects in Birmingham, Ala.**

8-9 — *GCSAA seminar on Basic Turfgrass Botany and Physiology in San Diego, Calif.**

10-11 — *GCSAA seminar on Protection of Water Resources in San Antonio, Texas.**

13-14 — *GCSAA seminar on Environmental Considerations in Golf Course Management in Baltimore.**

15-16 — *GCSAA seminar on Disease Identification and Control in Pleasanton, Calif.**

1994

January

3-5 — *Wisconsin Turfgrass & Green Industry EXPO in Madison.* Contact Frank Rossi at 608-262-1490.

3-Mar. 11 — *Winter Session, Rutgers Professional GolfTurf Management School New Brunswick, N.J.* Contact 908-932-9271.

5 — *GCSAA seminar on Golf Course Safety, Security and Risk Management in Winston-Salem, N.C.**

5-7 — *Second Annual Turfgrass Management/Park Maintenance Training School in Albany, N.Y.* Contact 800-873-TURF.

6-7 — *GCSAA seminar on Plant Nutrition and Fertilizers in Atlanta.**

10 — *GCSAA seminar on Maximizing Turfgrass Weed Control in Cromwell, Conn.**

10-13 — *34th Virginia Turf and Landscape Conference and Trade Show in Richmond.* Contact Bruce Tharp at 804-340-3473.

11 — *GCSAA seminar on Wildlife Management and Habitat Conservation in Cromwell, Conn.**

11-13 — *Eastern Regional Nurserymen's Ass'n Trade Show in Kiamesha Lake, N.Y.* Contact 203-872-2095.

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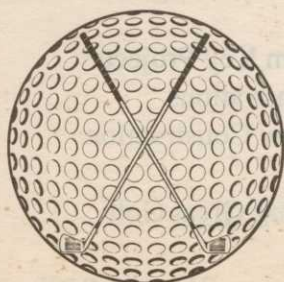
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CIRCLE #157

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Cincinnati. *

13 — GCSAA seminar on Practical Tree Management in Oak Brook, Ill. *

13-14 — New Hampshire Turf Conference in Manchester. Contact Thomas Rowell at 603-742-5117.

14 — GCSAA seminar on Wildlife Management and Habitat Conservation in Oak Brook, Ill. *

18 — Arkansas Turfgrass Ass'n Conference and Trade Show in Little Rock. Contact Angie McSwain at 501-663-8810.

18-19 — GCSAA seminar on Golf Course Construction Techniques and Management in Pittsburgh. *

18-19 — International Sport Summit in New York City. Contact Peter Cantor at 301-986-7800.

18-20 — 64th Annual Michigan Turfgrass Conference in Lansing. Contact Kay Patrick at 517-321-1660.

19 — Professional Turf and Landscape Conference in White Plains, N.Y. Contact Carol Mueller at 914-636-2875.

20-22 — American Sod Producers Association Midwinter Conference and Exposition in Scottsdale, Ariz. Contact Tom Ford at 708-705-9898.

20-22 — Mid America Horticultural Trade Show in Chicago. Contact 708-526-2010.

27 — Inland Northwest Turf and Landscape Trade Show in Spokane. Contact Julie Boyce at 509-534-4161.

31-Feb. 7 — GCSAA Annual Conference and Show in Dallas. Contact 800-472-7878.

February

6-10 — Club Managers Association of America Annual Conference and Show in San Antonio, Texas. Contact CMAA at 703-739-9500.

16 — GCSAA seminar on Turfgrass Stress Management in Suffern, N.Y. *

Continued on next page

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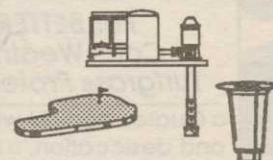
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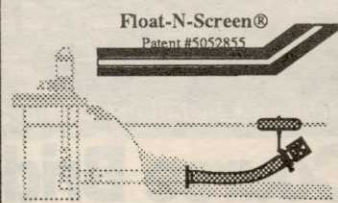
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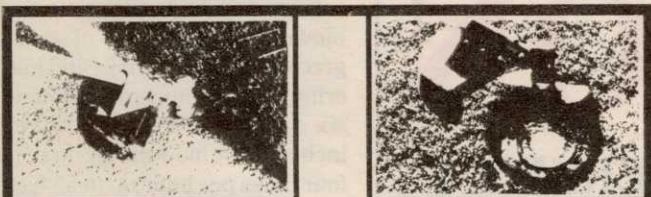
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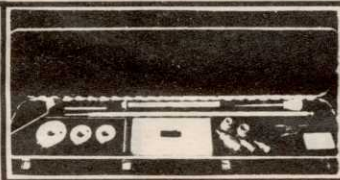
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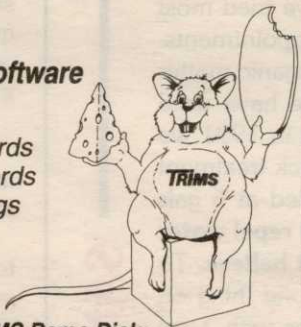
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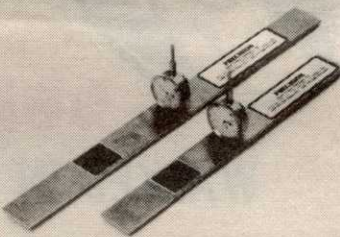
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CALENDAR

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21-22 — GCSAA seminar on Golf Course Design Principles in Boise, Idaho. *

23-24 — GCSAA seminar on Protection of Water Resources in Gaylord, Mich. *

March

2-3 — GCSAA seminar on Basic Principles of Turfgrass Management in Normal, Ill. *

11 — GCSAA seminar on Maximizing Job Satisfaction in Phoenix. *

14-15 — GCSAA seminar on Managerial Productivity in King of Prussia, Pa. *

17 — GCSAA seminar on Implementing Strategies and Plans for Turfgrass Environmental Systems in Minneapolis. *

22-23 — GCSAA seminar on Golf Course Design Principles in Palm Springs, Calif. *

* For more information contact the GCSAA Education Office at 800-472-7878 or 913-841-2240.

Air-conditioned mist the key to thriving bentgrass greens in Florida

'When you turn the misting system on with the blowers, you get cool air blowing across and it's phenomenal — very effective... We have eight or nine Toro 640s around every green that can produce a very low amount of water and high mist. When temperatures exceed 90, we mist for 30 seconds every hour on the hour until it drops to 88 or 87 degrees.'

— Superintendent Dave Lowe, Plantation Club

By MARK LESLIE

PONTE VEDRA BEACH, Fla. — When other Floridians in the 1980s were trying to grow bentgrass on their greens and watching it die, superintendent David Lowe and head mechanic David Smith were tinkering at the new Plantation Club, here. When others abandoned bentgrass and returned to the standard Bermudagrass, Lowe and Smith kept tinkering.

Today, The Plantation Club's bentgrass greens are thriving,

thanks to their ingenuity. Their secret goes beyond the usual bentgrass survival programs of adjusting cutting heights, applying fungicides, ventilating, misting, and watering localized dry spots ahead of time.

Lowe and Smith have added a crucial twist to the ventilation factor. Instead of the conventional — and noisy — fans many superintendents place in nearby woods or mount in trees, they are using air conditioner blowers they have converted to oscillate.

"Basically, it's a blower that you find up in attics of commercial buildings that blow into the ductwork," Lowe said. "We put a transitional piece on the front — about 24 inches long and 14 to 16 inches wide at the opening. That funnels the air out and gives you static pressure."

"We mounted it on a pedestal and put on a wheel bearing assembly," Smith explained. "Then I took a small gear motor and put it on with linkages and arms, and attached them to the system so that it oscillates."

Lowe said he has three to five blowers on the edge of every green, cooling the grass and lowering the soil temperature four to six degrees to a depth of three inches. They blow the air three to four miles per hour up to 55 feet.

From June 1 to Oct. 1, when daytime temperatures run from 88 to 100 degrees and humidity many days is 80 to 100 percent, Lowe runs the blowers 24 hours a day. "We can turn the typical 70- to 75-degree nighttime temperatures into 55 to 60 degrees," he said.

"They cause the turf to survive during the day and actually thrive at night. That nighttime care makes the difference because, typically, bentgrass will not grow when you reach July."

"This is a major, major player in our bentgrass program," Lowe said. "When you turn the misting system on with the blowers, you get cool air blowing across and it's phenomenal — very effective."

"We have eight or nine Toro 640s around every green that can produce a very low amount of water and high mist. When temperatures exceed 90, we mist for 30 seconds every hour on the hour until it drops to 88 or 87 degrees."

The beauty of the blowers, he said, is the fact they're "very, very quiet. They don't disturb golfers or homeowners who live close to greens."

...

Lowe said he set up the blowers much like an irrigation design that leaves no space uncovered.

"When we spaced them, we took an anemometer, which measures wind velocity, and went out on the green," he said. "Our goal was to have three to four mile-per-hour wind at 50 feet. When we lost that, we put in another blower."

The blower Lowe and Smith selected to handle their 7,000- to 9,000-square-foot greens puts out 7,550 cubic feet per minute. Smaller and bigger blowers are available.

Over the last four years, they have made constant improvements, like to the oscillating motor, which wasn't strong enough. "We had to go to a bigger, DC motor and put on a control transformer to change it from DC to AC and control the speed of oscillator," Smith said, adding, "Now we have it where we want it."

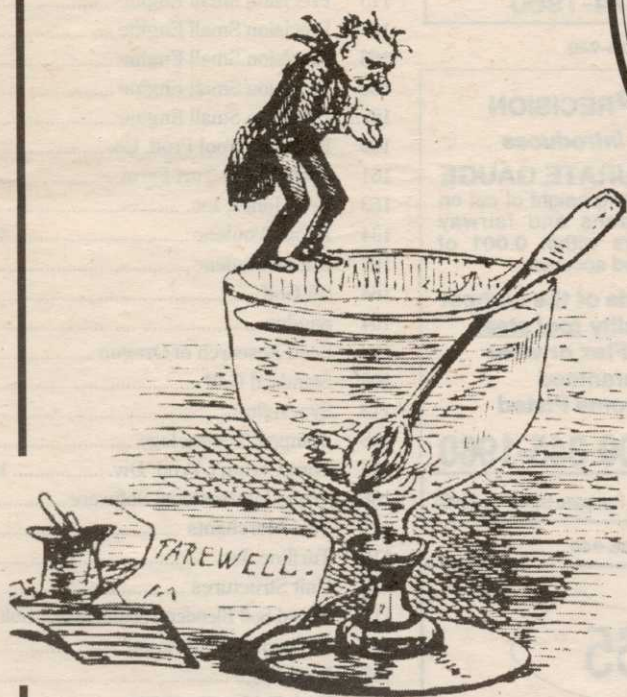
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GCSAA

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For mowing performance features, nothing else can make this cut.

Superior greens start with superior greens mower features. And the all-new Greens King® 422 is loaded with them.

Exceptional side-to-side, front-to-rear balance and a more compact roller base help accentuate your greens' details, rather than your mower's limitations.

Our new 11-blade, electronically balanced reel delivers an unbelievably smooth cut, even down to 5/64." Plus, our exclusive Turf Groomer® option simply produces faster, truer, healthier greens than any imitator.

Clutch performer.

No other walking greens mower can touch the 422 for reliability. Our all-new clutch has been tested out to the equivalent of 70 years of operation, without any adjustment or lubrication.

The same eye for quality extends throughout this unique machine—from our space-age, long-life bearings and

bushings, to the most durable drive belts made, to the powerful, high-efficiency 4-hp, 4-cycle OHV Honda engine.

With features like drop out drive drum, reel and bedknife, and easy, slide-apart traction roller with built-in differential, the Greens King 422 cuts maintenance time as neatly as it cuts grass.

See for yourself why it's a whole new ballgame, ask your Jacobsen distributor for a complete demonstration.

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