Prairie Buffalo vs Hybrid Bermuda

No. mowings per 2 months Prairie Buffalo

Water use in gallons

THE NEWSPAPER FOR THE GOLF COURSE INDUSTRY

VOLUME 2 NUMBER 9 SEPTEMBER 1990

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Types of courses by length

<table>
<thead>
<tr>
<th>Length</th>
<th>Daily fee Municipal</th>
<th>Private</th>
<th>Total</th>
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<td>2,166</td>
<td>5,276</td>
</tr>
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Source: NGF

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Beating the heat

Buffalo billed as wonder grass

BY PETER BLAIS

Barton Creek Country Club in Austin, Texas, is experimenting with two varieties of buffalograss that will eventually be available nationwide and could save the golf industry millions of dollars annually in water, fertilizer, pesticide and mowing expenses.

Prairie buffalograss developed at Texas A&M University was introduced to the perimeter rough and along steep bunker faces of the new Ben Crenshaw-designed course beginning in late June, Continued on page 24

Water comes into play on several holes, including this one, at Jack Nicklaus' latest design — the private Governors Club in Chapel Hill, N.C. Nicklaus and club pro Ronnie Parker played the inaugural round at Governors Club on Sept. 5. The par 72 layout plays from four tees — the shortest over 5,267 yards and the longest 7,085. See pages 12-13 for more information on new courses proposed and approved around the United States. Photo by Chip Henderson

Isolite expected barrier-breaker

BY MARK LESLIE

Isolite is no panacea, Lou Haines is quick to say, but it could lower the body count in impending water wars.

Haines, the technical services director of New Golf Concepts, Inc., of Westminster, Colo., is optimistic that tremendous inroads will be made into America's golf courses by Isolite, which

UK is definitely no U.S.

BY BRADLEY S. KLEIN

A revolution in golf course maintenance in the United Kingdom has begun at the same time its greenkeepers are being lured to Continental Europe.

The culprit causing an Americanization of greenkeeping is television, according to Brits in the industry. The pull to the United States is strong because of the high salaries that are double and triple the $15,000 to $22,000 earned in the United Kingdom.

Many British golfers have turned their back on "the links model" and become fascinated by what might be called "the Augusta model," he said.

The role of televised tournament golf cannot be underestimated. Club members, having watched The Masters on the tube, ask their club secretary why their greens and fairways aren't picture perfect, lush and plush, he said.

Greenkeepers explain that even Augusta National is timed to peak at... Continued on page 22

Discrimination stops at supers' desk

BY MARK LESLIE

Discrimination doesn't exist on groundskeeping crews at country clubs around the nation — even those that exclude certain people as members, according to superintendents surveyed.

"Segregation and integration are just not an issue (on grounds crews)," said Gerald Faubel, president of the Golf Course Superintendents Association of America and superintendent at Saginaw (Mich.) Country Club. "I have never seen any discrimination whatsoever with regard to race or sex on a grounds crew."

Faubel's remarks followed the debacle at Shoal Creek Country Club in Birmingham, Ala., in which the club's discrimination against blacks threatened to prevent the PGA Championship from being played.

"If you found any segregation in grounds crews it would really surprise me," Faubel said.

James Singerling, executive vice president of the Club Managers Association of America and a former club manager, said clubs "never have a hiring policy."

Continued on page 19
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TPC-Conn. officials face stiff test

Renovations must be complete in time for '91 Greater Hartford Open

Renovations to the Tournament Players Club of Connecticut have begun amid worries the facility will not be up to Professional Golfers' Association Tour standards by next year's Canon Greater Hartford Open.

Eleven new and seven altered holes are being built around 268 luxury homes that will finance the $5 million renovation and pay off debts.

Pete Dye renovated the Edgewood Golf Club, which became the TPC of Connecticut in 1984. The latest renovations, three years in the planning, were drawn up by tour employees Brit Sinnamon, Bobby Weed and TPC general manager Jerry Mobley. Touring pro Howard Twitty, the 1980 GHO champion, and Roger Malhie also provided assistance. The remodeled facility will be renamed TPC River Highlands.

Work began in March with the clearing of a 52-acre gravel pit near the Connecticut River that will accommodate the 10th through 13th and part of the 14th holes.

The major emphasis will be placed on the greens. The designers plan to give the average player the chance to roll the ball onto most greens rather than requiring a carry over bunkers. They also hope to avoid the problems on the existing back nine, which reportedly spilled up easily.

Mobley hoped to have several new holes seeded by June. But lack of rain prevented it.

"We would have had to drain the pond (near the 12th, 16th and 17th holes) and we couldn't do that," Mobley told the Hartford Courant. Added Twitty: "I was hoping the course would be a little further along, but I know everyone is committed to getting the job done. But I'm not going to throw any smoke at you that we don't have a lot of work to do."

Midwest Links buys Meadowlakes in Texas

Midwest Links, Inc. has bought the golf course and country club operations at Meadowlakes, adjacent to Marble Falls, Texas. Ralph Riley is general manager and Jim Boockmeier is director of golf. Both are stockholders in the buying corporation, along with Bob Sweeney. Meadowlakes, a semi-private club with 600 members, has an 18-hole, 6,710-yard golf course, driving range, practice green, tennis courts and a swimming pool.

Remaining lots and land adjoining the country club remain under the ownership of Meadowlakes Corp., according to Flint Sawtelle, president. Marble Falls is about 45 minutes west of Austin in the Highland Lakes area.

Money-maker pushes county execs to build second course

Wayne County (Michigan) Executive Ed McNamara believes the county can afford to build a second 18-hole golf course now that his administration has shown a second consecutive budget surplus.

McNamara, who was scheduled to meet with New York bond-rating house employees in late July, hopes the surplus will result in an improved bond rating and make the course more affordable.

McNamara estimates a new course would cost between $3 million and $9 million and occupy 120 to 150 acres of county-owned land. Two sites are under consideration, one between Middle Belt and Inkster roads, and a second next to Metropolitan Airport.

The county has already designed a course at the Inkster site, although state environmental officials previously opposed the plan because of wetlands.

McNamara has experience in golf management. He is part owner of an Inkster course and oversees three city-owned facilities while mayor of Livonia.

Moratorium stops course completion

The Columbia (Ill.) City Council has refused to lift a building permit moratorium in a proposed business park to allow golf course developer Jim Watkins to complete construction of his course.

Watkins started construction last year without a city permit. He was told to stop building in December while the city considered new zoning regulations along the (Mississippi) river bottom where the course is located.

Aldermen were sympathetic with Watkins' requests to lift the moratorium and issue him a building permit. But city lawyers advised against it.

The city council must still adopt a new zoning ordinance and hold public hearings.

A recent land-use plan completed by a St. Louis firm considered golf courses a good use for the property. But the course falls in a light-industrial zone that presently requires a variance for a golf course.

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Pictured above: The world's largest bunker — adjacent to the 13th hole on the Valley of Gizza Country Club.
**Florida Golf Council being created**

**Summit to draw government, golf industry together**

After months of discussion and continually increasing pressure on Florida golf development, industry leaders have formed the Florida Golf Council to serve as the voice of the state's golf business.

Major government and industry leaders will speak at the council's inaugural Florida Golf Summit. To be held in Orlando on Oct. 11-13 at the Grand Cypress Hotel, the summit focus on government relations.

Among the speakers will be Gov. Bob Martinez, Secretary of Commerce Bill Sutton and golf course designer Tom Fazio.

Also present will be representatives of key governmental permitting agencies, major golf associations and architectural firms, along with experts in water management, environmental permitting and financing.

As one architect said: "Golf is a $5.5-billion-a-year business in Florida and we don't have a lobbyist at the statehouse... Myrtle Beach (S.C.) spends more to promote golf than the entire state of Florida... Hopefully this will be the first step in changing that situation." To register for the summit or get further information, people may contact Nancy Oliver, Florida Golf Council, 1401 Forum Way, Suite 100, West Palm Beach, Fla. 33401; telephone 407-688-0800.

Pollard cited for article on Pebble Beach

Frank Pollard, a freelance writer in Hollister, Calif., won a second place for outstanding journalistic achievement in the contest Golf Course News at 7901 Parkway, Suite 450-D, Henderson, Nev., near Las Vegas.

The contribution for the event was a story that appeared in the December 1988 issue of Golf Course News.

Pollard was cited for his account of the maintenance at Pebble Beach Golf Links since its construction 70 years ago.
Congressman wants fed'l revenue from courses
Land leased to Scottsdale should produce further return, Synar claims

U.S. Rep. Mike Synar, D-Okla., is upset the Interior Department receives no revenues from federal land leased to the city of Scottsdale, Ariz., for two golf courses. The courses are part of the flood control basin and the land is leased as a flood-control project, according to the magazine "Insight."

The courses, which are managed for the city by the Professional Golfers' Association of America, charge greens fees up to $75. Income pays for course construction.

"If people in the private sector did these kinds of deals, they'd be fired," Synar said of the federal negotiators.

The Interior Department's Bob Michael, who helped negotiate the lease, said it probably should have been drawn up differently, although the government doesn't pay maintenance costs under the current agreement.

Hills moves East office

Arthur Hills and Associates' Maryland office has moved.

The new address is 6701 Democracy Blvd., Suite 300, Bethesda, Md. 20817; 301-571-9334.

Renovations lag behind schedule

Expansions of Duluth, Minn.'s Lester Park and Enger Park golf courses are behind schedule, but golfers were expected to get a break with the opening of a second nine at Enger in August.

Both courses are being expanded from 18 to 27 holes. With the new nine at Enger, both will have 18 available for play. The new nine at Lester was sodded in late July and could be ready this fall.

The $4.1 million expansion project begun two years ago was supposed to be completed in July. It was delayed by bad weather and a lack of snow cover last winter that caused severe turf damage at Enger.

Erosion problems have also plagued both courses.

In addition to the new holes, several tees and greens were modified at Lester and new irrigation systems installed at both facilities.

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Golf Course News
American expertise goes to Japan

BY MARK LESLIE

Dramatic climatic changes, high maintenance costs and lack of turfgrass education are major problems for the burgeoning golf industry in Japan, according to four Americans who recently returned from a teaching visit to that country.

"If golf is to become a game of the masses as in the U.S.A., construction and maintenance costs will have to be reduced many-fold," said Dr. C. Richard Skogley, a turfgrass expert who retired from the University of Rhode Island this year.

Skogley accompanied Mike Robinson, president of Seed Research of Oregon; David Fleming, golf course superintendent, consultant and architect from El Cajon, Calif.; and Armen Suny, a superintendent and consultant from Castle Pines Golf Club in Castle Rock, Colo. More than 500 of Japan's 1,500 superintendents turned out to hear the Americans speak on golf management. The seminars, sponsored by Seed Research of Oregon and its Japan agent, Kenko Commerce, were held in Tokyo, Nagoya, Osaka, Kumamoto and Sapporo.

Fleming, president of the new Golf Properties Management, Inc., said: "A lot of new information was presented on greens management, overseeding, plant breeding and research. Change in methods generally takes time for acceptance, and the first step toward change is the delivery of new ideas and information."

"I think we have left food for thought and, hopefully, better turf management, and better golf courses will be the result."

"There's no formal education there at all for superintendents," Robinson said. "A couple of colleges have horticultural courses, but very little instruction in turf management. That's part of the breakdown."

Robinson, who plans to repeat the educational tour, said the Japanese superintendents were "very receptive" to his group. "They're trying hard and are very proud of their courses, but in some cases they've had bad advice," he said.

Robinson referred to the great number of greens not properly built. Fleming agreed. "There seems to be mixed to slight interest in the USGA (U.S. Golf Association) construction method," he said. "In such a country, with abundant rainfall, the focus is more on drainage than anything else. Whereas the USGA green features a perched water table as well as controlled infiltration rates."

"I believe the results of a USGA spec green, and an aggressive top dressing program would prove to have excellent water infiltration, coupled with healthy, less disease-susceptible turf."

Suny said Japan's superintendents need to top dress and verticut their greens more and more. He added: "Turf managers need to learn more about overseeding. It appears to be a foreign concept." Climate is a major problem, Robinson said. The northern part of the country has conditions similar to Canada, while the southern end has two situations - the very hot and humid areas at lower elevations that struggle with diseases, and the nearby mountainous region that has few problems.

Skogley said the Japanese turf industry "needs to take some action to show and demonstrate the safety of properly used pesticides."

Chiba Prefecture has taken steps to outlaw all insecticides and herbicides.
Bass Group expands golf course division work

Golf course developers and operators Arthur Jeffords, Edward Ewing and Donald O'Quinn have joined Marion Bass Investment Group to direct its new golf course development division.

The division, Bass Golf, Inc., will manage a series of investment funds that will build and manage golf courses in metropolitan and resort areas, principally in the Southeast.

Jeffords and Ewing, vice presidents of Bass Golf, have extensive experience in golf course development and management, according to Marion Bass, president of Bass Golf and chairman of Marion Bass Investment Group.

They will also assist golf course owners and developers with professional services ranging from overall property development and construction to operational management.

O'Quinn serves as director of golf course construction for Bass Golf. In his 30-year career, he has worked with Arnold Palmer, Jack Nicklaus, Gary Player and Pete Dye in creating some of the world's best known courses, including Harbour Town Golf Links in Hilton Head, S.C.; Kiawah Island (S.C.) Links; and Amelia Links in Amelia Island, Fla.

PGA professional Jeffords heads golf course development and management for Bass Golf.

Jeffords was formerly a principal in Jeffords, Ewing & Associates, a golf management and development company based in Murrells Inlet, S.C. He worked with architect Tom Fazio to plan and build Wachesaw Plantation Club, a private course in Murrells Inlet, S.C.

Jeffords is president of the Wachesaw club.

Jeffords was associated with Sea Pines Plantation of Hilton Head Island for more than 12 years when he served as director of golf for the resort's four golf courses and as head professional at Harbour Town Golf Links.

Ewing heads research, site selection and negotiation activities for Bass Golf. Ewing was formerly a principal with Arthur Jeffords in Jeffords, Ewing & Associates.

At Wachesaw Plantation Club, Ewing was responsible for all operations and served as controller for the $80-million golf and residential development. Ewing served as a CPA specializing in golf and residential projects with Welker, Harris & Co. and the international accounting firm Coopers & Lybrand.

O'Quinn previously served as executive vice president of Sea Pines Co. He was in charge of sports operations and golf course development, building eight courses in five states and Puerto Rico.

He also served as chairman of the PGA Tour's Heritage Golf Classic.

Japanese

Continued from page 6

cides on new golf courses because of spills and incidents of misuse resulting "from lack of education," Robinson said. There are threats of similar action in other prefectures.

As Fleming said: "There seems to be a lot of pressure to manage without the use of protective chemicals. We were given a list of available chemicals that seemed adequate for good course management...There is a real need for an education program on the new breed of agricultural chemicals with shorter half-lifes and less persistence in the soils. There can be safe co-existence with the environment and the proper use of protective chemicals."

To Skogley's comment that maintenance costs are extraordinarily high, Robinson explained, "You have twice as many people on the grounds crews there, but they don't have the same equipment we do."

He said some new Japanese courses have the latest machinery while others don't.

Without modern equipment, groundskeeping is "very labor intensive," he said, mentioning one course he toured where four women were walking beside one another hand-spraying fertilizer.

Regarding grasses, Suny suggested the Japanese use more Bermudagrass and improve their northern and mountain courses by growing perennial ryegrass and bentgrasses in the fairways — an idea that must be sold into "a bluegrass mentality."

Skogley added that Japan should be a market for colonial bentgrasses and fine fescues for fairways and tees, and for fine fescue mixtures in roughs and banks.

"Ryegrasses have unlimited potential for all fairway and tee overseeding, possibly in combination with colonial and fine fescues, particularly as you move north," Skogley said.

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Tour's gone overboard: roughs too tough

I've probably commented all too often on course conditions at PGA Tour events. I even commented on the British Open. For the most part, my thoughts have been positive. Not so this time.

With all due respect to superintendent James Simmons, the PGA directives for course conditions were much too severe at Shoal Creek. A local sports writer said it just wasn't exciting watching (in person or on television) players of this caliber chop the ball 20 to 100 yards out of the rough to get it back in play, then hit the green, only to have the ball run through the green into more thick rough. I even saw a Payne Stewart shot hit a metal encroachment barrier and deflect onto the green — in better position than had it not hit the barrier.

Wayne Grady played great golf, but the golf course was too severe. It wasn't enjoyable for the contestants or the spectators.

I hope all tournament governing bodies will take a hint from this 1990 PGA Championship and realize that a 7,200-yard layout with tight fairways and firm greens is tough enough without man-eating rough.

As we head into the busy fall season, Golf Course News is planning for 1991 to give you an even better publication for the golf industry.

Even though the economy seems somewhat unsteady, plans for golf facilities are moving ahead — and so is Golf Course News.

In the next couple of issues I'll let you know what's in the hopper for next year. In the meantime, enjoy this issue and be sure to pass it along to industry friends who may wish to receive a monthly issue.

Sincerely,
Charles E. von Brecht
Publisher

COMMENT

All are equal

Discrimination. Segregation. Prejudice. Bigotry. Whatever you call the mindset that has ruled at exclusionary country clubs, it is distasteful. It should leave a foul taste in the mouths of everyone in golf which, since its inception, has been a game for the masses.

Before we were Americans, or Russians, or Irishmen... before we were Protestants, or Catholics, or Jews or Hindus... before man became any of those things that divide us in bigotry today, we were men and women, all of us, created by God.

"The Lord is no respecter of persons," the Bible tells us, so who do we think we are to treat a person of one race better, or worse, than a person of another race?

It is good that the PGA Tournament Policy Board has established that no PGA Tour, Senior PGA Tour or Ben Hogan Tour event will be held at any golf club that has membership practices or policies that discriminate on the basis of race, religion, sex or national origin.

We can hope and pray that the words of Rev. Abraham Woods will come true. The local SCLC president said that with the agreement by Shoal Creek to allow black members, the start of widespread changes was under way. "It seems as so goes Birmingham, so goes the nation. The ripples have gone around the country and this sounded the death knell to exclusionary clubs...," he said.

Otherwise, we can learn a lesson by rereading the chapter in U.S. history about the Ku Klux Klan, which claimed it was not exclusionary with words like: "We antagonize no man's religion more than they do ours; it's an honest plea for equal recognition. We are not anti-foreigners; we simply require that our members be native-born Americans." — Mark Leslie

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To The Editor:

I was intrigued by the article “Mastering the ‘masters’ an intriguing pursuit” in the July edition of Golf Course News. So often over the years contemporary architects have redesigned the works of the masters such as Donald Ross and others.

In the 1930s, 40s and 50s there was little need for justification for the remodeling work in that the architects were hired by the clubs (usually the greens chairman) to make material changes to the courses to fit the individual desires of those in charge.

In the ‘50s and ‘70s the battle cry was “modernization,” whatever the devil that means. In the ‘80s and ‘90s there have been many changes that have been passed off as labor-saving and responses to technology. Now Brian Silva has come up with “sympathetic renovation.”

In my opinion, this is all nonsense. For the last four decades Geoffrey Cornish and in the past five years Brian Silva have done remodeling work on Donald Ross layouts. In nearly every case both of these architects have superimposed their design work on the courses of the “master.” There has been little or no attention given to the original plans, the Ross mystique or the overall balance that existed in many Ross works.

As a Ross fanatic I have played dozens of his courses in New England and the Northeast. I have gotten to the point where I can recognize from afar the handiwork of Geoffrey Cornish on a Ross design. This is relatively easy because it just doesn’t fit.

As for Mr. Silva, I see absolutely no element of “sympathetic renovation” in his recent work at Wannanoog Country Club in West Hartford, Conn., but rather an aversion to pot bunkers and other such baggage that was never a Ross trademark.

My point is that there are techniques for the restoration of golf courses that do not entail a change in design and demeanor. Greens can be dug up, brought to USGA standards and replaced in duplication of the original. There are plans to many Ross courses that were used as more than a general guideline and could be used today to stem the tide of bastardization of Ross works.

It is my sincere hope that those that are contemplating renovation of their golf courses — be they Ross, McKenzie, C.B. MacDonald, Travis or many others — realize that a golf course design is like a work of art. After all, most respectable people would not hire a contemporary artist to add some reds to a Renoir.

Very truly yours,
Michael J. Pay, senior vp
Donald Ross Society
West Hartford, Conn.

NCA plans conference for directors

The National Club Association’s first annual Club Director Conference, slated for Sept. 9-11, at Pinehurst (N.C.) Hotel and Country Club, will provide the latest thinking and solutions for a number of crucial challenges to private clubs.

Designed specially for incoming officers, the 1 1/2 day conference will also help private club directors, officers, owners, general managers, and others in the club community.

It will provide briefings and materials with immediate, take-home value — material that can be shared with those who do not attend.

Sessions will focus on legal/legislative and environmental concerns, board-manager relations, financial reporting and analysis, risk management, insurance, membership development, policy planning, and more.

Schreiner puts up his shingle

Craig Schreiner, an associate member of the American Society of Golf Course Architects, has opened his own design business in Kansas City.

Schreiner said he will soon announce several projects he will work on in the United States and abroad.

He was a design coordinator for Don Sechrest from 1985-86 and for Hurdzan Design Group from 1987-88.

Schreiner earned a landscape management degree from Oregon State University in 1974 and a turfgrass management degree from Ohio State in 1984, when he went to work for Wadsworth Construction Co.

His office is located at 4500 Main St., Suite 900, Kansas City, Mo. 64111; 816-753-3001.

Club Mark gets Red Fox pact

Club Mark Corp., a Houston, Texas-based management firm, has been awarded the management contract for Red Fox Country Club in Tryon, NC.

Red Fox originally opened more than 25 years ago as an exclusive members-only club in the Great Smoky Mountain resort area. A series of acquisitions involving undeveloped land caused an onslaught of operational and financial problems at the club in recent years.

Di Giacomo with insight, combines the dynamics of nature, with innovative construction techniques to construct rock formations worldwide.

Representative Projects: Dove Canyon Country Club, Jack Nicklaus Golf, Orange County, CA • Tomisato Golf Club, Narita, Japan and Imperial Wing Country Club, Nagoya, Japan • J. Michael Poellot Golf Design Group • Kinojo Country Club, Robert Trent Jones II, Okayama Japan • Wood Ranch Country Club, Simi Valley, CA • Palm Valley Country Club, Palm Desert, CA • Art Laca Golf Club, Golf Plant Incorporated, Osaka, Japan
Three is approaching the impossible. But 12? enough job for one person. Two is a reach.

American Golf Corp. regional superintendent Jerry Owens, who directly oversees a dozen Southeast courses and consults at five more.

"Maybe when I'm getting ready to retire and I want to slow down. But right now there doesn't seem to be a limit to what I could do."

Owens is responsible for an annual maintenance budget of $4.5 million and 150 employees scattered around the 12 private and public facilities. He has a superintendent at every course and tries to visit each at least once a month.

"My main job is to audit each course to make sure they meet or exceed the standards the company expects," said Owens, who has been with American Golf since 1986. "I'm looking for things like green speed and turf quality."

"We want to be the MacDonald's of the golf industry. You go to Mac's because you know what you're getting when you walk through the door. We want that, too."

Making sure a dozen courses meet that goal requires a lot of time and effort. Owens puts 30,000 miles a year on his car visiting the five courses he manages in the Atlanta, Ga. area. Planes take him to single courses in Helen and Savannah, Ga., three in Charlotte, N.C., and 11 in Myrtle Beach, S.C.

"It hurts the family life occasionally. I have a 5-year-old daughter I would love to see more of her daddy. But the company pays for my wife and daughter to travel with me. That makes it easier," he said.

Owens' family hails from the Smoky Mountain town of Graham in western North Carolina. His love of the game sprang from the area's junior program that allowed him to play any of 35 courses within a 50-mile radius of Graham for $10 a month.

"I mowed a lot of lawns and saved my money for golf," he remembered. Running a tractor on his grandfather's farm and working around his father's department store as a youth helped make him comfortable with the equipment he later found in the maintenance shed and pro shop as a fledgling superintendent.

He graduated with an associate degree in turfgrass management from North Carolina State University in 1974. He worked as assistant superintendent at Pine Needles Resort in Southern Pines, N.C., and Golden Horse-shoe in Williamsburg, Va., where he helped design an 18-hole, par-3 course.

Phillipshurst hired him back to North Carolina in 1979. He joined the famed resort as head superintendent of the No. 1 course and later helped open and manage No. 6.

But after seven years of the daily routine of maintaining a course, "I was ready to spread my wings," he recalled of his decision to accept the director of golf post for the city of Savannah, Ga., in 1981.

Owens worked with Gary Player and his assistant, Ron Kirby (now with Jack Nicklaus' European office) to design and open a second nine holes at Bacon Park. He also made the money-losing course profitable by raising green fees an average of $4 (the senior citizen rate had been $2.50 a round), doubling the maintenance budget and upgrading the facilities.

"If you don't have a product people like, you can't expect them to pay for it," said Owens.

Owens supervises more facilities than any of the 15 regional superintendents in American Golf's 116-course empire. And his number is likely to grow.

"The company plans on taking on 10 to 20 new courses a year. It's exciting," Owens said.

**Twelve's a charm for AGC's Owens**

**BY PETER BLAIS**

Maintaining a single course is a hard enough job for one person. Two is a reach. Three is approaching the impossible. But 12? enough job for one person. Two is a reach.

Owens supervises more facilities than any of the 15 regional superintendents in American Golf's 116-course empire. And his number is likely to grow.

"The company plans on taking on 10 to 20 new courses a year. It's exciting," Owens said.

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Dye puts his stamp on 3rd nine at Kohler

Anchored by a golf hole Pete Dye says may be the best he has ever designed, the River Course's 9th hole, a short par 4 dubbed the "Scapegoat,"晋升成为传奇性的高尔夫球洞，据俱乐部经理艾莉·哈伯德说。“新九洞是我们对黑沃尔夫跑园的杰出设计，”他说道。“如果你击到果岭，那么恭喜你。”

The river runs through the property and separates the two courses, which are the centerpiece of Kohler Village, which is being developed by Herbert V. Kohler Jr. as a business, residential and recreational center.

Courses newly opened in the United States

Golf Course News is publishing this list monthly. It includes courses that have been a Forthcoming is a list containing the sites and contacts for new courses and renovations in the preliminary planning stages. When these courses are ready to begin construction they will be listed again in the "Courses newly opened in the U.S." chart.

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

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

We would appreciate your help in updating this section. To contact us call 307-845-0000 or write Golf Course News, P.O. Box 997, 38 Lafayette St., Yarmouth, Maine 04096.

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

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For information circle #336

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For information circle #107

Egret Valley CC 'one of my best,' says Arthur Hills

Egret Valley Country Club opened its 36 holes Oct. 1 in Grand Rapids, Mich., to accolades from its architect, Arthur Hills. The courses are "absolutely one of the best we have ever done," Hills said.

The layouts — The Valley Course and The Ridge Course — feature a stunning set of vistas among its mix of rolling terrain, trees, meadows, water and mountains.

Hills said the site of the Egret Valley courses is one the best he has ever worked with. "The whole place lent itself to one good golf hole after another in terms of my criteria. I think it is going to be outstanding."

The course was built by Wadsworth Construction Co.

Bates takes design team international

Golf course architects Gene Bates & Associates, Inc. of Palm Beach Gardens, Fla., is designing new courses in Sweden and Jamaica.

With finishing Dutch designer Lisa Lipsman, Bates is laying out an 18-hole, par-72 facility alongside another course designed by Finnish architect Kosti Kuronen.

The courses will be the focal point of a new destination resort in Mauritzberg on Blaviken Sound about 100 miles south of Stockholm. The courses should be completed in the summer of 1992.

Developer Richard Salam of London is planning an 18-hole golf resort community near the town of St. Ann, 50 miles east of Montego Bay.

Known as Drax Hall Plantation, it is situated on a coconut plantation founded in 1669 by William Drax of Barbados. The site was originally a sugar plantation that changed hands many times over the years.

Plans call for a 6,500-yard, par-72 course located within a residential resort community of golf villas and single-family homes.

The course is expected to open in late 1991.
Miami officials hold off on Green Point

BY PETER BLAIS
Florida Gov. Bob Martinez and the Cabinet will likely wait until after November elections to decide the fate of the Panhandle's proposed Green Point Golf Resort Community, according to a developer. At an Aug. 14 meeting, the governor and Cabinet expressed concern about the county's environmentally sensitive Apalachicola Bay until the county revises its comprehensive plan to include the resort, said developer Jack Dods. "They basically delayed the vote until after the election," said Dods. "It hasn't been shot down. It isn't dead." Critics fear the 540-acre project—which includes an 18-hole course, homes, bed-and-breakfast rooms and business space—could pollute the state's largest oyster fishery.

Dods said his group has moved quickly, developed state-of-the-art storm-water runoff systems, reduced residential density and hired specialists to ensure the project wouldn't pollute the bay adjacent to economically depressed Franklin County.

The Franklin County Commission, state Department of Environmental Regulation and both the House speaker pro tempore and council chambers and the press. "The community supported the idea (of the sale). But the council held fast," Duran said. "West Loch cost the city $20 million to build. Considering Jurigi's willingness to pay more than five times that price for the facility and the difficulty of obtaining a golf course building permit for a private developer in Honolulu, Duran believes Fasi may put future city-managed courses up for sale. "Between the current mayor, if such an opportunity came along again I think he might follow the same procedure," the city official said.

Minus $311M, Honolulu opens municipal course

BY PETER BLAIS
The West Loch Golf Course will open this month as a municipal facility now that the Honolulu City Council has rejected a $311 million Japanese bid for the course and permits to build two more. "We're just putting the finishing touches on it now," said Ron Duran, executive assistant to the city's managing director. "It should open in early September."

"This summer's unanimous City Council vote against Jurigi Co.'s offer of $111 million for the Robin Nelson and Rodney Wright-designed course, plus $200 million for the two permits, ended a bitter struggle between Mayor Frank Fasi and the council. Fasi wanted to use the proceeds from the sale to build three municipal courses and a number of recreation projects. The council countered that the West Loch property was originally condemned to be used as a municipal course and must not be sold to a company that would eventually turn it into a private facility. The battle waged through the spring and summer in both the House and Senate, to get the department to say the project would be condemned for $111 million."

Florida officials hold off on Green Point

Approximately 250 dealers who supply fertilizer and crop protection chemicals converged on Capitol Hill in late July for the fourth annual Agri-Dealer Legislative Conference, jointly sponsored by the National Agricultural Chemicals Association and The Fertilizer Institute.

The joint communications effort is a part of the strategy to let lawmakers know first-hand their dealer-constituents' views. Dealers from 40 states visited 175 congressional offices to deliver the joint NACA/TFI message that industry offers "people who know first-hand their concerns over the 1990 farm bill, the threat of environmental or chemical export requirements, and chemical-export restrictions. "It is significant that member companies from both our associations strongly supported this effort and focused on critical issues common to both industries," TF1 President Gary Myers and NACA President Jay Vroom said in a joint statement.

NACA and TFI are planning to co-sponsor the Agri-Dealer Legislative Conference in 1991.
Negotiations held to stop deadly Indian protest

BY PETER BLAIS

Representatives of the Mohawk Indians and Canadian federal government began negotiating Aug. 16 over a proposed golf course expansion in Oka, Que. that resulted in Indian barricades leading to a policeman's death.

The federal government is reportedly considering buying the 55 acres and turning it over to the Indians of the Kanesatake Reserve, who claim the area is tribal land. The move would effectively kill the proposed nine-hole expansion at Oka Golf Club in suburban Montreal.

"It was a nice site," said Canadian architect Graham Cooke, whose office did the preliminary design for the new holes. "It's been two years since we've done any work there. We sent out a staking crew, but the Indians told them to get off the land.

"They (course officials) told us later that the hole problem cleared up. But we knew it was just a short-term solution. We knew we wouldn't be going back until everything was cleared up. There was quite a show of force the last time we were there." Cooke said he has heard rumors of damage to the existing nine since barricades were erected this spring.

"There haven't been many courses built recently because of agricultural zoning laws to protect farmland and a lack of developable land. A lot of people who might have built courses have left the area for political reasons.

"There's a lack of public facilities, in particular. All the public and private facilities are filled. There's some building going on. But we're a long way off from what we need," Cooke said, who also has offices in British Columbia and Nova Scotia.

"We're a posh resort on the Kanesatake Reserve," the architect said. "They negotiated a long-term contract that covers things like hiring Indian workers. They've always had a good relationship."

**Testimony complete in Vermont**

BY PETER BLAIS

All the testimony has been given and developers are awaiting the decision of the Vermont district environmental board that will determine whether a golf course will be built at Sherman Hollow.

"It's up to the District Environmental Commission," said developer Paul Truax, who has spent five years and hundreds of thousands of dollars pursuing governmental approval of his controversial $22-million golf resort project. "We could hear any day or it could be another two months."

The commission listened to many hours of testimony during public hearings conducted last winter, spring and summer. Opponents have delayed the project with the help of Art250, the state's main development-controllaw. Truax has not stood still while awaiting the commission's ruling. He recently purchased the Mountain View House and the Spaulding Inn in neighboring New Hampshire. One of the "hot" hotels in the Mt. Washington Valley, the Mountain View House has a nine-hole course that Truax hopes to expand to 18.

"The course was built around the course," Cooke said. "They negotiated a long-term contract that covers things like hiring Indian workers. They've always had a good relationship."

"The course was built around the course. If renovations are necessary, he hopes his firm will be considered.

"There's a shortage of golf holes in the Montreal area," said the former amateur golfer, who finished second in the 1979 Canadian national amateur championship. "We lose a lot of public golfers to Vermont and New Hampshire."

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**Maui zoning laws eyed**

Maui (Hawaii) County officials are considering new zoning laws that would give them more control over golf course development.

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Morris winner Campbell: Supers' work most crucial

BY MARK LESLIE

Former U.S. Golf Association President William C. Campbell, selected to receive the Old Tom Morris Award next February, credited golf course superintendents for their difficult work in maintaining "the stage on which the game is played." 

Responding to the news of his selection for the major annual award by the Golf Course Superintendents Association of America, Campbell said: "I've been playing golf for 64 years and I take for granted a lot of things... but I hope I never take for granted the work that goes into making a golf course what it is. As Herb Graffis said: 'Golf keeps America beautiful.'"

Announcing the award, GCSAA President Gerald L. Faubel said: "No one has given more to the game of golf than Mr. Campbell. He has dedicated his life to promoting the game and has demonstrated many times his support of the golf course superintendent."

The Old Tom Morris Award recognizes individuals who have made outstanding lifetime contributions to the game. It is in memory of the greenkeeper and golf professional at the R&A, who was a four-time British Open champion and golf course architect as well as club and ball maker.

"I understand (superintendents') problems, the risks of their profession — some of the hazards being human as well, because it's a people business, too. But the net effect of it all is what makes the game enjoyable," Campbell said. "The golf course is the stage on which the game is played. I know it is not an easy profession. There are a lot of uncertainties."

"I also know that it is more and more a technical position. As chairman of the Green Section of the USGA for a while, I know the high regard the USGA has for the GCSAA and the individuals involved."

Faubel stressed that connection between the two groups as a major accomplishment of Campbell.

Faubel said that during Campbell's tenure as USGA president, from January 1982 to January 1984, Campbell strived to tighten the bonds between the USGA and GCSAA. He launched major fundraising campaigns to fund development of Golf House and to establish test facilities for clubs and balls, as well as a long-term program for turfgrass research, notably in the area of drought-resistant grasses.

Campbell downplays his part, saying he was simply "in the right place at the right time."

"We were fortunate that we had a Green Section Committee chair, Steve Horrell of Singing Hills Country Club in El Cajon, Calif., a former president of Southern California Golf Association, and Bill Bengeyfield as national director of the Green Section. They were a good team."

"That also coincided with a $10-

million capital fund campaign by the USGA with help from the GCSAA, PGA of America, PGA Tour and a number of other groups."

He said the GCSAA has had an active, ongoing role in raising funds for turfgrass research. That is still ongoing and still taking in a lot of money.

The cooperation of the two groups, Campbell said, has cured the longtime problem of "a relatively small amount of money keeping a number of research projects going."

"This cooperation was a breakthrough — not just in the results but in methodology of getting it done: raising a lot of money, making a (research) contract, and forming a committee to set the goals and supervise the work."

Campbell, who will receive the award Feb. 12 at the closing banquet of the 62nd GCSAA International Golf Course Conference and Show on Feb. 12 in Las Vegas, Nev., said: "In the modern age it's not enough for each organization to do its own thing... There has been marked improvement — at least in awareness of the importance of these relationships — in sense of people, projects and understandings."

"The USGA has many points of contact with other groups, but nothing's more important than its relationship with the GCSAA."

Elected this year to the PGA World Golf Hall of Fame, Campbell is one of the most honored men in the golf industry.

President and manager of
Ross Society hails members Nicklaus, Maples

Jack Nicklaus and Dan Maples have joined the Donald Ross Society, an organization formed to honor and help preserve the golf courses of Scottish architect Donald Ross. The announcement was made by Barry Palm, executive vice president of the society.

Winner of 20 major championships and more than 70 PGA Tour events, Nicklaus is also a golf course architect. Maples is president of the American Society of Golf Course Architects, whose first president was Ross in the 1930s.

"I am extremely pleased that both Jack and Dan think highly enough of our organization to have joined the society," Palm said. "I am sure that the input of both Jack and Dan will be very valuable to the society."

National membership has surpassed 200 and includes former executive director for 21 years, will stay on a full-time basis as assistant tournament director, and Jack Bates tournament manager as well as assistant tournament director.

Eleven club managers earn CMAA certification

Eleven club managers have been accredited Certified Club Managers (CCM) by the Club Managers Association of America.

They are Ben H. Whaley, Stone Oak Country Club; Joseph H. Gayle, Oceanside Country Club; Louise Platt, Vero Beach CC; Philip Archambault, The Weston Golf Club; Michael Greene; Thomas G. Bertani, Racquet Club; Clifford S. Spechly, Bear Lakes CC; Sandy McGaughey, Greenbriar Hills CC.

Also, James B. Singerling, executive director for 21 years, will stay on a full-time basis as assistant tournament director, and Jack Bates tournament manager as well as assistant tournament director.

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For free information circle #113
BY PETER BLAIR

"Everyone knows the Korean War was won by the infantry, except for Old Bob over there," said golf course architect Geoffrey Cornish, nodding across the room toward his co-lecturer, fellow architect Robert Muir Graves. "Being an old Navy pilot, he still mistakenly believes the Navy won the war."

A little later, Cornish was making an architectural point while trying to find the light switch so Graves could turn on a slide projector. "That's right, Geoff," sighed Graves after Cornish sought professional support while still fumbling for the switch. "Now just shut up and turn off the lights."

No offense was intended and none taken during either good-natured exchange, or many similar ones that occurred during this year's two-day golf course design seminar at Harvard University. The two past presidents of the American Society of Golf Course Architects have become fast friends while carrying on similar seminars across the country for the past 10 years. The session at Harvard is the sixth since 1985 and has grown with the game.

"We had 30 registered that first year. We're up to 85 this time," said Cornish. The Harvard seminar consists of lectures and labs, during which students route an entire golf course, design a single hole and finish by filling in the residential component.

It is aimed at landscape architects, who are becoming increasingly involved with golf courses as part of their projects. There were many in attendance, like Brent Schulz of EDAW, Inc., a landscape architectural and urban planning firm in Washington, D.C. Schulz has worked on golf course/residential projects in Hawaii and Virginia.

"We're starting to get a lot more demand from our clients who want to mix a course into their residential design," explained Schulz of his presence on the Cambridge, Mass., campus. "It's great to do as much work as we can in-house and get more involved in the routing of courses."

But the class was not limited to landscape architects.

Stanton Abrams, president of Senior Tour Players, Inc., which represents such well-known senior players as Sam Snead, attended the session along with Snead's son, Samuel Jr. Sam Sr. is among the growing list of senior players trying their hands at course design.

"Dad wants to get back to the classic designs, along the Donald Ross model," said Sam Jr. "I want to hear what Geoff and Bob have to say because I'm going to be working with my father."

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For free information circle #115

"EVERYTHING FOR YOUR GOLF COURSE"
Discrimination

Continued from page 1

"There are two totally different issues here," Singerling said. "The club manager is hired to operate the facility and hire employees to do the job as best they can. Where I've been, the members and employees are friends."

Singerling said that at the club he recently managed in Florida, 80 percent of the employees were minorities — "women, blacks and other folks."

"By law, we can't ask background, religion or race in a job interview, he said. Patty Knaggs, superintendent at Westchester Country Club in Harrison, N.Y., said she has not seen a single instance of discrimination in any of the five clubs where she has worked. One of those clubs is The Country Club of Brookline in Massachusetts, which has recruited blacks as membership candidates the last two years but still has none.

"We had 65 on our crew at Brookline — Asians, women, Irish...," Knaggs said. "I've worked with every ethnic background you can imagine, and I've been the first woman hired at several places. The grounds crews have always been very, very diverse."

At Westchester CC, she said her 38-member crew is one-third Spanish, one-third black and one-third white. "We have Irish, three women and people over 60 who have retired from other jobs," she said. "Plus there are two women besides myself who are in high positions at the club."

Bill Spence, the superintendent at The Country Club, said his crew is a mix of ethnic groups. He has had blacks in the past, though none now. "Our arms are open to anyone who will do the job and wants to come work for us," Spence said.

Paul Crawford, superintendent at the predominantly Jewish Palm Beach Country Club, said his 12-person crew includes Puerto Ricans, blacks, Mexicans and whites. "Commenting on the great number of blacks and Cubans on crews in Florida, another person in the industry said: "They are the hard workers. Often, it's difficult to find white people who are willing to work that hard."

Referring to the PGA Tour incident at Shool Creek, the GCSAA's Faubel said: "I feel sorry for the PGA. They're not doing anything (segregationist comment). People in golf just aren't like that. I don't think anyone who is a PGA TOUR member is going to have to go out and look for people (minorities to hire)."

"We judge applicants with that test. We don't care what color or race they are. We want someone who will get the work done and cooperate with the other workers," Faubel said. "The only thing we have to watch is that we follow the law to make sure they are U.S. citizens."

Neither the GCSAA nor the National Club Association has guidelines to follow in hiring. But the GCSAA has a booklet, "Selecting a Golf Course Superintendent," that spells out the requirements for the golf course manager, the responsibilities, needs and selection of a new superintendent. Nowhere is race, sex or religion mentioned.

"The course is not crowded. Most courses allow the crews to play on certain days. Others allow play after a certain hour," said Faubel. "He said the few courses not allowing play have the same rule for everyone, regardless of race or sex."

"Yes, at the vast majority of courses. "A very low percentage of places won't allow play by the crews," Faubel said. "My crew can play at their discretion, making sure the course is not crowded. Most courses allow the crews to play on certain days. Others allow play after a certain hour."

"The only thing we have to watch is that we follow the law to make sure they are U.S. citizens."

Singerling said that in covering the Shoal Creek incident, the national media has "disregarded anything that may be positive."

He said black golfer Lee Elder's suggestion that private clubs set high initiation fees to keep out minorities is "preposterous. They are trying to maintain a certain environment and level of enjoyment that people of certain degrees of success enjoy."

"To make that claim is to say that any restaurant that lists entrees over $20 per person is trying to also keep out minorities, and any hotel in the district that is above the Day's Inn rate is trying to discriminate and keep out minorities."

Playing the course

But while minorities are freely hired to tend the grounds at exclusive country clubs, are those same men and women allowed to play the courses?

"Yes, at the vast majority of courses. "A very low percentage of places won't allow play by the crews," Faubel said. "My crew can play at their discretion, making sure the course is not crowded. Most courses allow the crews to play on certain days. Others allow play after a certain hour."

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He said the few courses not allowing play have the same rule for everyone, regardless of race or sex.

Spence said The Country Club crew can play "any time of day. Monday is normally the day at clubs."

"Our club is very generous with playing time. I think it gives employees a chance to relate better to our work."

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## Debris management all-year chore

**BY PETER BLAIS**

It’s that time of year when the sweepers, vacuums and blowers are dusted off and brought out of the maintenance shed. Fall brings a round job, it’s primarily the spring and fall, especially in the northern United States, when leaves come down in the fall. You want something you can depend on those two times of the year, plus except after storms. Then the leaves come down in the fall. You want something you can depend on those two times of the year, plus

### Continued on page 33

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Case of the British Revolution

BY BRADLEY S. KLEIN

The classic model of the British greenkeeper is a rough-clad gardener with a rake who fertilizes his golf course with a vile compost of seaweed, cattle blood and iron filings. At many courses in England, Scotland, Wales, Ireland and Northern Ireland, there's a man in overalls who fits this picture. But thanks to the efforts of the recently formed British and International Golf Greenkeepers Association, the image is rapidly changing.

For centuries, the assumption was that British golf was a natural affair, played on linksland soil that needed little tending. Man could scarcely improve upon it. The sandy soil drained well, rabbits and grazing animals nibbled their modest parcels of turf, and irrigation was assured by nothing more than the vagaries of a wet climate. This "links style" of greens maintenance held sway over part of the British greenkeeping profession. Yet today, as conditions in the industry have changed so dramatically, the classic image is under scrutiny.

The demand upon golf courses has grown steadily the past 150 years. The advent of the gutta-percha ball around 1850 rendered obsolete the expensive old "featherie" ball. Suddenly, golf became accessible to the middle classes. The old links became heavily played — indeed, overplayed. A need arose for someone to tend the playing surfaces and repair damage to the course — someone who could muster all the artifices that agricultural science could devise. The first fulltime greenkeepers came into the picture near the end of the 19th century.

To meet the growing demand, courses were built inland, on sites previously regarded as ill-suited for the game. Well-draining sand-based courses were one thing. Heathland and parkland soils were quite another. These heavier soils had to be drained or mud would overtake the course in spring and winter. These problems could not be addressed by traditional means.

A new generation of inland architects, including C.H. Alison, H.S. Colt and Alister MacKenzie, began addressing drainage and proper turf. Largely to meet the demands of inland courses, the Board of Greenkeeping Research, later renamed the Sports Turf Research Institute, was founded in 1929. However, this research unit was regarded courses tied to a comprehensive organization encompassing British greenkeepers.

Funding was scarce, formal educational opportunities were few, and a longstanding tradition of fierce independence among the various keepers of the green survived in the ranks. This legacy proved so strong that a 1987 discussion document, The Way Forward, dealing with British golf course management and issued by the Royal and Ancient Golf Club Greenkeeping Panel, observed "British golf's historical attitude to greenkeeping (in marked contrast to America) has been — and still is, in many cases — astonishingly disorganized, penny-pinching and arrogant. Still, one could have added, "amazingly successful."

Most British golf courses have fulltime greenkeeping staffs of four or five. Royal Dornoch, one of the world's most highly regarded courses, has nine fulltimers for its 36 holes.

The only fertilizer ever used there is liquified seaweed. To this day, fairways are not watered. A hand-operated watering system reaches only greens and a handful of tees. An on-course well delivers 40 gallons of water per minute suffices for both courses.

Romantic? Yes. Practical in today's high-pressure world of golf course maintenance? Perhaps not. But it's this dichotomy — old versus new — that makes greenkeeping in the British Isles so fascinating.

SUNY-Delhi hosts seminar on building

A seminar on golf course construction and renovation, featuring Joseph Hahn, Dr. Norman Hummel and Dr. Michael Hurdzan, was held Aug. 21 at the State University of New York at Delhi, N.Y.

The New York State Turfgrass Association coordinated the seminar, proceeds from which benefitted the student golf course internship at SUNY-Delhi.

Hahn, superintendent at Oak Hill Country Club in Rochester, N.Y., reviewed his road to hosting the 1989 U.S. Open.

Hummel, of Cornell University, presented a session on green construction concepts and sand selection. He demonstrated water movement in different soil mixtures and working models of greens profiles.

Hurdzan, of Hurdzan Design Group in Columbus, Ohio, designed more than 100 new golf courses and some 200 renovation projects in the North America and Asia.

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Maintenance schedule: Of hoofs and horns

Gordon Moir is head greenkeeper at Fraserburgh Golf Club on Scotland's Buchan Peninsula, just north of Aberdeen. His course is exposed on three sides to the North Sea. There is no drainage in his fairways. Only greens can be waters. On average, the course receives between 22 and 27 inches of rain per year and is exposed to dry winds throughout the summer. The 27-hole layout was designed by James Braid after World War I. Its 6,220-yard medal course hosts 16,000 rounds annually. The greens staff has four full-time members and one student trainee. Moir and two assistants are "qualified"—graduates of technical institutes.

The maintenance budget this year is $135,000—half for salaries and the rest for equipment and supplies. Moir earns $20,000 per year. Maintenance at Fraserburgh calls for triple cutting of the greens six days a week in season and one cut per week through winter. In the summer, greensavers verticut every week and top dressed every four or five weeks.

The recipe for Moir's special mixture of fertilizer treatment sounds — and smells — like a witch's brew. To every 100 square yards of turf, he applies three pounds of sulphate of ammonia, one pound of hoof and horn (pulverized hoof and horn of cattle), one pound of dried cattle blood, one pound of potash, and a half-pound of iron sulphate. All that's missing is the tongue of newt (or a witch's brew). To every 100 square yards of turf, he applies three pounds of sulphate of ammonia, one pound of hoof and horn (pulverized hoof and horn of cattle), one pound of dried cattle blood, one pound of potash, and a half-pound of iron sulphate. All that's missing is the tongue of newt (or a witch's brew).

The mix is bulked up with sand and applied by hand.

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Appears as small yellow-green blotches. A cobweb-type growth is often seen, especially in the mornings. Banner fungicide at 1-2 oz./1000 sq. ft provides low cost-per-day-of-control, preventing disease for up to 28 days.

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Buffalograss

Continued from page 1

Buffalograss can be clipped and prosper as low as the 3/8-of-an-inch common on many fairways, it is being bred for the rough.

"Some of the grasses we're developing could be used in fairways," said Riordan. "But that's not our goal. We want to use them in low-maintenance areas.

"They'll never replace bentgrass or Bermuda greens. Genetically, it's just not the same grass. But it could function that way. It's certainly better than bare ground." Added Engelke: "You won't find it going into the fairways at expensive, private courses. But there are a lot of courses out there with $100,000 maintenance budgets where it could prove popular. It's a very acceptable product that can be maintained well with little water, mowing or pesticides."

Compared to hybrid bermudagrass, which dominates Southern courses, Engelke said Prairie buffalograss:

- requires one-fourth the water;
- thrives on one-third the nitrogen, one to two pounds annually per 1,000 square feet compared to four to six pounds for Bermuda;
- is more resistant to turf diseases and insects so requires less pesticides, fungicides or herbicides;
- can be mowed as infrequently as once every two months as opposed to once a week for Bermuda;
- has slightly better shade tolerance and requires an average of just two to three hours direct sunlight;
- tolerates severe cold having survived minus-43 degree temperatures last winter while bermudagrass was dying throughout the South;
- greens up earlier and goes dormant later, and;
- resists soil compacting better and is well suited to heavy traffic areas like cart path aprons.

But all is not roses. There are drawbacks.

The major one is availability. With only 100 acres currently in production, Prairie's price of $5.50 to $4.50 per square yard is double hybrid Bermuda's $1.50 to $2, Engelke said. That should change as production increases.

"Prairie will be about the same price as Bermuda within a couple of years," the Texas A&M professor predicted.

Prairie doesn't turn the dark green of Bermuda, although that can be helped along with additional nitrogen. On the other end, when it goes dormant, Prairie turns a deep golden color that Engelke said is "quite pretty."

"Buffalograss may not be a panacea. But it's certainly an alternative for today's environment-conscious courses," said Engelke.

Barton Creek's experience

The Crenshaw course at Barton Creek, scheduled to open next spring, was a logical initial site for buffalograss since Crenshaw Douglet Turfgrass Inc is licensed to market Prairie and 609.

"We put (Prairie) in the buffer and transition zones from the native areas," said Long, whose new course is planted primarily with Bermuda 419. "It's adjacent to critical environmental features (primarily Barton Creek) because it has low fertilizer requirements. And we shouldn't have to mow it after the first year."

Prairie grows to a height of six inches.

"The ball is still playable even at that height. And Crenshaw likes its aesthetic value as a transition to the taller native grasses...It has kind of a feathery look and waves in the wind," Long said.

Barton Creek is in a semi-arid area, receiving an average 32 inches of precipitation annually.

"Hope my wiregrass just have to water it once a week or so in summer to maintain its color," said Long. "We water the Bermuda five or six times a week from May through September.

"It has great cold tolerance. Too. All the courses planted in Bermuda around here really suffered last winter. But a small plot of Prairie we had came through just fine. I understand they can grow it well into Canada."

Whereas Bermuda can only be planted about six months a year, Prairie's cold tolerance allows it to be planted basically year-round. That will allow Barton Creek developers to continue planting Prairie along roadways and in residential areas this winter, Long said.

"If they don't have to irrigate those areas it will mean a considerable capital expense savings," the superintendent said. "And they shouldn't have to mow it more than once or twice a year."

Buffalograss is a dense-growing turf with an extensive root system, helping it stabilize and control erosion along steep surfaces. Extreme slopes and bunker faces were the first places Long installed the Prairie sod. Sprigging the remaining

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Continued on page 25
plantings have thrived from British Columbia to Florida. The next wave of buffalograsses, some of which will be released next spring, will be better suited to Northern Plains and Western courses where Kentucky bluegrass dominates, Riordan said. The new buffalograsses will require 50 percent less water, fertilizer, pesticides and mowing than bluegrass, he added.

"It will be valuable anywhere water and environmental issues are important. It's much more adaptive than we ever thought," Riordan said.

A worker installs prairie buffalograss alongside a bunker at the 17th hole of the new Ben Crenshaw-designed course at Barton Creek Country Club in Austin, Texas. This Texas A&M-developed buffalograss is one of the new semi-arid grasses being developed around the

Continued from page 24

rough started in August.

The future

"Over the next six to 10 years perceptions about buffalograss will change dramatically," Engelke said. "Buffalograss is at the same stage as tall fescues were in the early 1900s. Over the next decade, tremendous advances were made in tall fescue's color, mowing heights, water usage. "Comparing buffalograss to other turf types is like comparing the Model T to today's cars. But in 10 years you'll see similar changes to those we saw with tall fescues. It's a tremendous plant for the future. But we're just opening the door. Buffalo and zoysia will be the dominant warm-climate grasses of the next decade."

One of the major changes will be the availability of buffalograss seed. Prairie and 609 are both vegetative-type grasses, meaning they are available only as sod, plugs or sprigs.

"We're working with companies that hope to have buffalograss seed available within a couple of years," said Riordan. Prairie and 609 were both bred for Southern courses, said Riordan, who is taking over much of Engelke's buffalograss research allowing the Texas A&M professor to concentrate on bentgrass and zoysia.

Buffalograss will eventually be available throughout North America. Experimental plantings have been successful in New York and Ohio, Engelke said. The new buffalograsses will require 50 percent less water, fertilizer, pesticides and mowing than bluegrass, he added.

"It will be valuable anywhere water and environmental issues are important. It's much more adaptive than we ever thought," Riordan said.

Continuing from page 24

over the next six to 10 years perceptions about buffalograss...
with it."

New Golf Concepts President William D. Leary says, "The benefits in water conservation and environmental enhancement which Isolite can provide to America are phenomenal."

And the firm’s publicity claims Isolite "has the ability to reduce water usage 50-65 percent."

But Haines moderates that statement.

"You might save that much under an ideal situation, but I don't like to say that," he said. "In the real world I think we're looking at savings closer to 25 to 40 percent, depending on the soil type."

He said Isolite has applications on both ends of the soil scale from a tight clay to an open sand and pretty much everything in between, depending on what you want to do.

Meanwhile, a note of wariness about any new product on the market was added by Bill Bengyefeld, recently retired national director of the U.S. Golf Association Green Section.

Bengyefeld said "legimate research" must be done by scientists independent of the company.

"There are so many slips twixt the cup and the lip... Independent research just has to be done on it... The company's tests don't count in the world of science," he said.

Indeed, New Golf Concepts plans other tests besides the one at Sedona.

Haines projects that Colorado State University will apply Isolite to a USGA-spec sand green; a replica of a bentgrass fairway; and to clay soils "to see how well we can open up clay to increase porosity and percolation and prevent compaction... which is one of the main nemises on the golf course where there are cart paths and high-traffic areas."

He said the company is also negotiating with other universities to perform tests in other areas of the country.

"We want to get testing established in different soils and climatic conditions," Haines said. "We will have some excellect results by this time next year from our Colorado State studies. For the other studies, it will depend on how quickly we can get them started."

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Continued from page 1

Isolite

Continued from page 1

is formed from diatomaceous earth and processed at more than 1,800 degrees.

A former golf course superintendent, Haines said Isolite (pronounced ees-oh-lite) has "uncountable applications" for his ex-colleagues.

"From a both a technical and practical standpoint, it's going to be a big, big product."

-- Lou Haines

"Scientists hear of it and immediately their minds get in gear and they think of new ideas for it."

Hunt said Isolite has "no environmental liabilities. It's an asset to the environment. It reduces fertilizer use. It reduces pesticide use. It has no toxic biproducts."

One of the more interesting ideas for its use was as a layer above a hazardous waste site.

Meanwhile, Haines said Isolite also saves in fertilizer costs, holding fertilizer so it doesn't leech through the soil.

Haines said Isolite has no similarity to polymers. "Imagine holding a sponge in your hand. The sponge absorbs the water because the pore spaces fill with water. Isolite is the exact same thing as the sponge except it is hard. It will neither contract nor expand. It's a hard sponge full of pores that fill up with water. You can't wring out the water out like you can a sponge but the grass roots can extract that water from the Isolite particles."

He added that Isolite also "holds air in some of the pore spaces and provides an ideal environment for the micro-organisms that we must have in the soil in order to grow grass," he said. "Where do the roots grow in the plant? They grow in the pore space between the soil particles. That's where the fertilizer, water and air and everything else are... So the more porosity we can provide, the more friable our soil is, the better plants we can grow in it and the better things we can do.
Isolite
Continued from page 26
"It will take a year for meaningful and objective results to report. But at the same time we are getting more and more information from the Japanese studies. The Tokyo Agricultural Experimental Station results will be in hand in August."
Isolite is being used on 15 percent of the 1,500 golf courses in Japan, where it has been developed for nine years. The results there reportedly have been "dramatic," according to New Golf Concepts.
Isolite is incorporated into the ground through aerification, verticutting, and slit-trench machines. But Haines said it is ideally added during construction when it is tilled into the top six to eight inches of soil.
"There is no such thing as a panacea," Haines said. "As a former superintendent I know that. We've just got a good, practical product that is going to help superintendents solve a lot of problems."
"And you can't go wrong with it. It is basically an inert product. You can't burn with it, or change soil pH with it. There's no chemistry to it. You're just putting a bunch of sponges in the soil."
It's cost?
"It's a little high right now, but I think we will get a price reduction soon," said Hunt. "We will pass any price reduction on to the end user."

GCSAA board to play Canadians

The board of directors of the Golf Course Superintendents Association of America will play its Canadian counterpart in the first of what will hopefully be an annual tournament, according to GCSAA President Gerald Faubel.
The Americans will tee off Sept. 27 at Club de Golf Cedarbrook in St. Sophie, Quebec, against the team from the Canadian Golf Superintendents Association/Association Superintendents de Golf. Faubel issued the challenge to the Canadians, and the GCSAA is providing the trophy — the Board of Directors Cup.
Faubel said the winners will hold the cup for one year.
He hopes the Canadians will accept an invitation to play in the United States in 1991.
He was unsure what format the tournament will take.

Oakmont CC lures Latshaw back

Oakmont will host the women's 1992 U.S. Open and the 1994 men's U.S. Open.
He missed the challenge of big tournaments. He likes that area, explained Latshaw's wife, Phyllis, of her husband's decision to leave Wilmington.

Oakmont general manager Pat LaRocca said he expects Latshaw to arrive in Pittsburgh around Jan. 1.
"He's the greatest guy in the world," said LaRocca. "I have a lot of respect for him. When the situation arose, he was our first choice."

Stonecreek clubhouse open this fall

Stonecreek, The Golf Club, broke ground on a new 17,000-square-foot clubhouse in late spring and is scheduled for completion this fall at the Paradise Valley, Ariz., course.
The two-level clubhouse will overlook the first tee and will eventually be surrounded by the Paradise Valley Urban Village. The facility includes such features as a 120-seat restaurant, a golf shop, state-of-the-art golf instruction facilities with classrooms and video screening areas, men's and women's locker, showers facilities, underground golf car storage and a snack bar.
The clubhouse was designed by Corner-Hedrick Architects & Planners, Inc. and Huntcor is serving as the general contractor on the project.

Florida firm gives away 10,000 trees

AmeriAquatic, Inc., of Deersfield Beach, Fla., which is involved in lake and wetland management, has donated more than 10,000 red maple seedings to a number of south and central Florida environmental and agricultural organizations, according to President Thomas Latta.
AmeriAquatic has initiated an extensive research project at its Sarasota, Fla., facility to propagate a selection of indigenous wetland trees form seed and introduce them back into their native environments.
Due to the high yield and abundance of the red maples, AmeriAquatic donated the seedlings, on flats, to the Broward County Extension Service, which distributed the plants to organizations in Broward, Palm Beach, Lee, Martin and Collier counties. Many of these recipients have either redistributed the seedlings to private groups or citizens or are nurturing the seedlings in pots until they are ready to be established in-ground in wetland zones.
W.R. Sauey, has been chosen "Master Entrepreneur" by Ernst and Young — an accounting, tax and consulting firm in Milwaukee, Wis.

Chosen by a panel of 10 Wisconsin business people, Sauey was one of four entrepreneur award winners who were honored.

Sauey was selected as a Master Entrepreneur (an award not given before) because, the panel said: "After 44 years of entrepreneurial activity, William Sauey could easily hang up his entrepreneurial hat and admire his track record but, because this isn't his style, we honor him with the master entrepreneur award."

Sauey is chairman of the Nordic Group of Companies, Ltd., a holding group of eight companies that have combined annual sales in excess of $120 million and employ 1,300 people.

Columbia ParCar Corp. is part of the Nordic Group.

Sauey started his first company, Flambeau Plastic and Machine Co., in 1948 with a loan of $1,500.

His award places him as a nominee for national recognition in Inc. Magazine's 1990 national entrepreneur awards program. Winners will be announced in the January 1991 issue.

Grace-Sierra Horticultural Products Co. has opened a manufacturing and distribution plant in North Charleston, S.C.

Operations will be dedicated to coating controlled-release fertilizers with an organic-based resin. Both the fertilizer and the resin will be manufactured at other facilities.

Situated on a 6.3-acre site, the facility is the company's first plant on the East Coast dedicated to controlled-release fertilizers. Grace-Sierra has other controlled-release fertilizer manufacturing and distribution centers in Milpitas, Calif., and Heerlen, The Netherlands.

The company markets fertilizers to commercial growers, nurseries, garden centers and consumers throughout the United States, Europe and the Pacific Basin.

"We are delighted to announce the expansion of our controlled-release fertilizer operations to the East Coast," said President Jay Rossi. "This new facility significantly expands Grace-Sierra's production capabilities to meet the growing demand for Osmocote by growers based on the East Coast."

North Charleston Mayor John E. Bourne Jr. welcomed the company, saying, "We are delighted that our community was selected as the site for this important Grace-Sierra facility."

Grace-Sierra Horticultural Products Co. was formed in 1989 by the merger of W.R. Grace & Co. and Sierra Chemical Co.

Grace-Sierra opens fertilizer plant in South Carolina

You’ve designed the ultimate floor

Compared to all the work that goes into building a golf course these days, choosing the seed and fertilizer is simple.

You simply choose the proven, the failsafe, the best. Scotts® HD Starter® Fertilizer and Pennciles® bentgrass seed. HD (for high density) Starter Fertilizer gives new seedlings everything they need, except sunshine and water. It provides controlled-release nitrogen in proper balance with readily-available phosphorus and potassium to promote vigorous seedling growth and root development. And its homogenous, free flowing, high density particles provide even distribution of required nutrients.

You don’t have to worry about it burning or quitting early, either. HD Starter uses a readily-available phosphorus source (monoammonium phosphate) to stimulate rapid response and safely transform newly seeded areas into thick, attractive turf. While controlled-release nitrogen assures sustained, vigorous top growth.
Lofts adds pesticide appliers’ certification

Registrants were able to earn Pesticide Recertification Credits when they attended Lofts Seed Inc.’s 14th annual field day at the company’s farm at Martinsville, N.J. Visitors were greeted by Lofts’ Chairman and President Jon Loft and Director of Research Dr. Richard Hurley, after which several turf specialists discussed current topics.

Dr. Virginia Lehman, director of Lofts’ new West Coast Research Center in Oregon, spoke on bentgrass breeding and its adaptability to Southern areas. Karen Plumley of Rutgers University discussed summer patch research. Corn University’s Dr. Norman Hummel reviewed new advances planned for pest management. Carmine Valenten, of the New Jersey Department of Environmental Protection, provided a regulatory update on pesticide controls.

Vermeer Manufacturing of Pella, Iowa, has been honored by the U.S. Department of Commerce as Iowa’s sole recipient of the 1990 President’s “E” Award. The award recognizes companies that demonstrate excellence in export marketing.

Vermeer was identified for its work in expanding into new market territories and dramatically increasing exports in spite of strong foreign competition. As late as 1986, Vermeer’s export sales accounted for less than 8 percent of the company’s total sales. Increased emphasis on aggressive international marketing helped it boost this figure to nearly 13 percent. Also during that same time, overall corporate sales volume grew by more than 50 percent.

Vermeer began its international sales in the early 1970s working through an export sales company. After limited success, it opened a one-man sales office in 1972 in the Netherland for sales throughout Europe, Africa and the Middle-East. This sales office now has eight full-time employees.

Nematode product under study

Ciba-Geigy has reached an agreement with Biosys, a Palo Alto, Calif., biological pest control company, to jointly evaluate a nematode-based product to control insects in turf and ornamental plants.

The product controls cutworms and armyworms on turf, and black vine weevils, fungus gnats and white grubs on ornamental plants.

Under terms of the agreement, Ciba-Geigy will gather field data regarding efficacy of the nematodes, test-market it in selected areas, and conduct market research with turf managers and ornamental growers.

Nematodes are microscopic invertebrates that aggressively seek out, attack and kill a broad spectrum of soil-inhabiting insect pests. The Biosys formulation can be applied with standard spray equipment, as part of growers’ existing cultural practices.

The product, which features the nematode Steinernema carpopusae, is exempt from Environmental Protection Agency registration requirements.

Elsewhere...

Ringer Corp.’s natural organic commercial turf and horticultural fertilizers are once again available in Canada, according to Scott Boutilier, head of the Commercial Division. Boutilier said AGTURF Chemicals of Brampton, Ontario, will be the sole master distributor of the products throughout Canada.

The EPA has approved an expanded federal label for Ciba-Geigy’s Pennant herbicide. In addition to nursery and landscape plants, the product now may be used on Southern turf species across the United States.
Nicklaus Golf hires environmental expert

Dr. Lee Berndt has joined Jack Nicklaus Golf Services and Golden Bear International as director of environmental services. Berndt holds a master's degree in turfgrass pathology from Michigan State University. He worked the last 16 years as a greenkeeper/assistant superintendent at several courses around the country.

A top priority for courses that Nicklaus designs is preservation and enhancement of the natural character of the land, said Mark Heesemann, general manager of Nicklaus Golf Service and vice president of Golden Bear International.

One of Berndt's main responsibilities will be to conduct research and develop new techniques to handle environmental issues, from wetlands mitigation to nutrient leaching and storm-water runoff.

Berndt will work closely with college scientists to expand new concepts for the future.

"There is a lot of valuable research being developed on campuses around the country," Berndt said. "My goal is to integrate this research with our field experience and make it applicable to Jack's designs."

Landmark promotes Brotherton

Jim Brotherton Jr., vice president of resort promotions of Landmark Co., California, Inc., has been promoted to executive vice president of the Landmark Management Co., according to its president, William "Buzz" Gill.

According to Gill, Brotherton's main focus will be in working with Joe Hough, director of consulting/management services, in the promotion of the Landmark Club Management Division in an effort to achieve a prominent position in that industry.

Brotherton will continue to be a consultant to Resort Promotions and will promote that division in his travels. He will also continue his role as liaison with the PGA of America and its related activities.

Blanchard a consultant for golf clients

David A. Blanchard has been appointed director of consulting, sales, and management services for golf-oriented clients of Lambert Smith Hampton's Orlando Division.

Blanchard holds a master's degree in architecture from the University of Michigan.

"His extensive experience as a developer as well as with other national developers in the analysis, design, construction, sales, and management of golf oriented residential communities makes him ideally suited to handle this new assignment," said Trevor Hall, executive vice president.

Blanchard's experience also includes free-standing conventional golf courses, private, semi-private, and public.

Melex meets growth with personnel changes

Because of rapid growth, Melex USA, Inc., is expanding personnel and services. Officials have Melex announced the following promotions and appointments within the golf car division in its Raleigh headquarters:

- J. Bryan Taylor has been named marketing manager and will also coordinate the customer service and technical areas.
- Martha S. Moran has been promoted to senior administrative assistant. She will continue customer service activities while assuming additional responsibilities in the advertising and promotion areas.
- Andrew J. Kielawa has been appointed technical representative for the technical services area. He will assist in product development and field service training.
- Carolyn J. Crawford has been named administrative assistant and will assume responsibilities in Melex' new direct marketing program.
- Lisa A. Dickerson has been named administrative assistant and will assume responsibilities in the distributor sales and customer service areas.
- Patty J. Johnson has been named administrative assistant and will assume responsibilities in the technical service area.

Feldman names vp-marketing

Clifford D. Feldmann has been named vice president in marketing of Feldmann Engineering & Mfg. Co., Inc., manufacturers of Feldmann fencing and shrub planting portable, powered augers from Sheboygan Falls, Wis.

The firm was founded by his parents in 1947. Feldmann holds a Ph.D. degree in chemistry from the University of Wisconsin, Madison. He was employed with Hewlett Packard Co. at Fort Collins, Colorado from 1979 until joining the family firm last January.
Anderson leaves Espey, Huston for vp post at Daft-McCune-Walker

Gary L. Anderson has been named a vice president of Daft-McCune-Walker, a land-planning and development consulting firm, according to Robert C. Galvin, president.

Anderson, a registered professional geologist, specializes in environmental land use and coastal issues. Prior to coming to DMW, Anderson was Director of Coastal Associates of Williamsburg, Va., and from 1980-85 was director, Commission on the Conservation and Development of Public Beaches, Commonwealth of Virginia.

He has been a technical advisor to the Chesapeake Bay Commission’s Land Use and Resource Trends Committee and to Virginia’s Chesapeake Bay Local Assistance Department.

Anderson is extensively published, including recently co-authoring “Living with Chesapeake Bay and Virginia’s Ocean Shores.”

Anderson has managed and participated in comprehensive environmental assessments and projects in the Mid-Atlantic region, the Caribbean and in Central America.

He designed the Jefferson Patterson Park and Museum Demonstration Shore Erosion Control Project in Calvert County, Md., a project funded jointly by the Maryland Department of Natural Resources and the Maryland Historical Trust.

He has assessed and managed golf course environmental studies requiring environmental mitigation.

At Daft-McCune-Walker, Anderson will continue his work both in Virginia and Maryland with land-use issues and help develop new business in the Mid-Atlantic region.

Gary L. Anderson

Northrup King names Bosch turf specialist

Northrup King has appointed Fred Bosch turf specialist in its Medalist Turf Division. Bosch will be responsible for sales of the company’s Medalist Professional Turf Products in Michigan, Ohio, western New York and western Pennsylvania.

Bosch is a graduate of Ohio State University, earning a bachelor of science degree in agriculture, majoring in agronomy while specializing in turf management.

Most recently, Bosch was a technical sales representative for W.A. Cleary Chemical Corp.

Emerald Dunes appoints new club manager

Paul C. Makris has been appointed club manager and Kim Throckmorton as marketing director for Emerald Dunes in West Palm Beach, Fla.

The daily fee Emerald Dunes course, designed by Tom Fazio, opened for play in January, while the clubhouse will open in October.

Most recently, Makris was affiliated with Flame Restaurants, a nationwide chain. He has more than 20 years of experience in the food and beverage industry.

Throckmorton has been sales manager at The Colonnade Hotel in Coral Gables.

Hydro-Product adds Majia to sales staff

Tony Majia has been added to the field sales staff of Hydro-Products Inc., according to Larry Hood, sales manager, northern region for the El Toro, Calif., company.

Majia will cover the northern Inland Empire from San Bernardino to Padadina, said Hood. Majia is a former commercial maintenance contractor with extensive experience in field troubleshooting and repair.

Hydro-Products Inc. is a single-source distributor for all major brands of irrigation and landscape supplies. It has 12 branches located throughout Southern California.
IF A TRUE-LINE PUTTING SURFACE IS WHAT YOU WANT—TRY Putter®

Creeping bentgrass

With its superior true-line putting surface and dark bluish-green color, Putter creeping bentgrass is fast becoming the choice of some of the finest courses around.

Tested side by side with the best-known bentgrasses, Putter exhibited superior color and excellent growth habit. With outstanding turf vigor, fine-leaf texture and improved resistance to take-all patch and other diseases. Add Putter’s dwarf growth habit, high-shoot density and aggressiveness against Poa annua, and you have a green that’s as tough as it is beautiful.

Not to mention one that satisfies your straightest shooters.

Put Putter up against the old favorites and compare. Putter quality #1. Putter density #1. Putter color #1. Putter disease resistance #1. Now, order Putter for the new world-class greens.

GCSAA releases course marketing research

The Center for Golf Course Management (CGCM), a subsidiary of the Golf Course Superintendents Association of America, has introduced the first edition of its marketing research report, "Buying Habits of Golf Course Superintendents."

The primary purpose of Buying Habits is to assist golf course turfgrass manufacturers establish their marketing strategies. The report, which will be published each August, includes information on course demographics, purchasing behaviors, equipment inventories, expenditures, customer satisfaction, planned course improvements and more.

The report was compiled from surveys of more than 11,000 golf course superintendents. Analyses and cross-tabulations were conducted by CGCM’s marketing research division.

The Buying Habits report is available through CGCM for $945. With each report purchased by Oct. 1, a second marketing research tool, the “Maintenance Trends Report,” will be provided free.

The “Maintenance Trends Report” studies current and emerging golf course maintenance practices based on a survey of 1,200 certified golf course superintendents. This year’s report features deep-tine aerification, Poa annua control, lightweight fairway mowing, 72-inch rotary mowers for maintaining roughs, and computers in golf course management.

For more information call 800-472-7878 or 913-841-2240.

Aeration and overseeding book updated

Cushman has revised and updated its 24-page manual on aeration and overseeding for lawn care professionals.

"The Dawn of a New Age in Lawn Care" provides reference information to lawn care firms that include aeration and renovation in their customer services.

The new, revised edition includes new university research concerning the benefits of aeration and why core aeration can be done after pre-emergent application without inhibiting pre-emergent effects.

Other topics include grass selection and overseeding techniques and equipment, the benefits of core aeration and new Ryan equipment designed for precision core aeration.

For a free sample of "The Dawn of a New Age in Lawn Care," contact Cushman, P.O. Box 82409, Lincoln, Neb. 68501 or call 800-228-4444.

Fore-Pare makes catalog easier to use

Organized to make the job of finding what you need quick and easy, the 1990 Fore-Pare Buyers Guide and Price List is an addition to its catalog.

For more than 25 years Fore-Pare has marketed golf course accessories. The tubular Swivel flag, personalized tee markers and practice green markers, Elasto-Signs, anti-rebound markers and multi-colored paint-free poles are a few "firsts" Fore-Pare has sold.

For a free copy, contact Fore-Pare, Inc., 16761 Burke Lane, Huntington Beach, Calif. 92647; 800-843-0809. Circle No 256

ASGCA details golf course development

"Master Planning: The Vital First Steps in Golf Course Construction," a 12-page pamphlet that details all the steps involved in developing a golf facility, is available from the American Society of Golf Course Architects.

The brochure covers topics such as building a golf course from scratch, remodeling a course and developing a construction schedule.

It provides information on evaluating a golf course, locating a qualified architect and establishing a budget.

To receive a free copy, send a stamped self-addressed envelope to: The American Society of Golf Course Architects, 221 N. LaSalle St., Chicago, Ill 60601.
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Daytime Phone
Parker Sweeper's sulky makes chore both easier and quicker

The Parker Sweeper Co. recently introduced a Sulky Attachment to accompany the VAC 35 Self Propelled vacuum model. The attachment allows the operator to ride instead of walk behind the VAC 35-SP. This permits the vacuum to cover twice the area in the same amount of time with considerably less effort for the operator.

The VAC 35 with sulky attachment can be used in many places where larger machines are not practical such as walkways, warehousing operations and parking lots. The sulky features tubular steel construction, custom foot rests and padded seat. Parker makes a complete line of turf and industrial vacuums, blowers and truck loaders.

This permits the vacuum to cover twice the area in the same amount of time with considerably less effort for the operator. The attachment is now available from Dol Bros, 4200 Norfolk Avenue, Ft. Worth, Texas 76112, phone 817-394-1000, Circle No. 301.

Productivity keys Sol Bros. overseeder

The DB-OV 200 Commercial Overseeder is designed for high productivity, the OV 200 will overseed up to 20 acres per day. By incorporating a double row of staggered seeding discs, seed row spacing of 1-1/2 inches is possible.

Each of the 43 seed planters is individually sprung so that the seeding depth remains constant regardless of ground contours. The double disc seed placement system ensures precise seed placement for maximum germination.

The 200 will cut through thatch or compacted soil without requiring a verbal mowing to precede it, leaving the surface virtually undisturbed and ready for immediate use. It is easily calibrated for all types of seeds and may be used for subsoil placement of granular materials such as insecticides.

For more information call 705-438-4535, Circle No. 305.

Ransomes introduces Verti-groom unit

Ransomes, Inc. has introduced its new Verti-groom unit for the Greens 3000. The Verti-groom unit conditions and improves the green surface by cutting lateral growth and controlling thatch. The result is a more consistent finish to each green and a smoother putting surface.

The Verti-groom unit is mounted in front of the grooved roller to shorten the distance between the rollers, reducing the incidence of scalping. The unit consists of 34 steel blades, each with five cutting teeth. The blades rotate at high speed and are spaced for optimum performance and minimum damage from obstructions.

The attachment floats with the undulations in the turf to prevent damage to greens. It can also be easily raised to provide a half-inch ground clearance for normal greens mowing.

The Verti-groom is driven by a toothed belt and utilizes a simple hand-operated clutch to disengage the drive for normal greens mowing. For more information contact a local turf maintenance equipment distributor, Circle No. 310.

The OV 200 will overseed up to 20 acres per day. By incorporating a double row of staggered seeding discs, seed row spacing of 1-1/2 inches is possible.

Proseed releases mulch and blankets

Proseed USA has introduced three new product lines, the PS200 Seeded Mulch Blanket, PS15-W Mulch Square and PS50-W Mulch Blankets.

The PS15-W, 58 inches-by-93 feet and covering 450 square feet, is the biodegradable PS100 Mulch Blanket seeded with grass and/or wildflower seeds. Each blanket comes as lightweight, easily installed rolls, 58 inches-by-9 feet and covering 450 square feet. It can be custom seeded by request.

The PS50-W is a moisture retentive/weed prevention mulch blanket. It is a 29-inch-by-24-inch, non-netted square treated with a pre-emergent herbicide for weed prevention around seedling trees. It will prevent weed growth for eight to 12 months while allowing seedlings to get established.

The PS50 Mulch Blanket is a 29-inch-by-100-foot, non-netted mulch blanket for use along highway shoulders to prevent erosion. The PS50-W, which has the same properties as the PS50, is treated with a pre-emergent herbicide for weed prevention lasting the growing season.

For more information, contact Proseed USA, Inc., P.O. Box 1250, San Marcos, Texas 78667, or call 800-228-2644, Circle No. 309.

**NEW PRODUCTS**

**Grace-Sierra markets new fungicides**

Grace-Sierra Horticultural Products Company has introduced VORLAN and FUNGO systematic turf fungicides in a safe, convenient liquid form. The new products, which enhance rather than replace existing products, control ornamental and turf diseases while eliminating the risk of dust inhalation associated with traditional powder pesticides.

"The introduction of VORLAN FLO and FUNGO FLO represents Grace Sierra's commitment to providing professionals with the highest quality, safest and most convenient products on the market," said marketing manager Mark E. Braxton.

YORLAN FLO is safe on all turfgrasses. It controls Dollar Spot, Leaf Spots, Red Thread and Pink Snow Mold up to 28 days. It is available in 4 x 1-gallon jugs per case.

FUNGO FLO protects against most major turf diseases, including Brown Patch and Fusarium Blight (Summer Patch and Necrotic Ring Spot). Systemic action provides effective disease control for up to 14 days. It is available in 2 x 2-1/2-gallon and 4 x 1-gallon jugs per case.

For more information, turf specialists can contact their local turf distributor or call Grace-Sierra at 800-492-8255, Circle No. 302.

**New Ryan aerator covers more area**

The new Ryan Lawnaire V Aerator's 36-1/2-inch aerating swath covers up to 29,000 square feet per hour, 38 percent more than the Lawnaire IV.

Powered by a 4-cycle, 3.5-horsepower Honda engine, the Lawnaire V is equipped with 3/4-inch, open-sided coring tines that can penetrate up to 2-3/4 inches deep. It comes with a 38-pound, removable weight bar and a polyethylene water drum that holds up to 10.2 gallons (77 pounds) of water for extra penetrating pressure.

The Lawnaire V features 5/9-inch axes with needle bearings, thrust washers and V-ring seals at both ends. Pneumatic four-ply tires minimize chances the aerator will scuff turf making turns. With its 42 times, the Lawnaire V produces an aerating pattern of 3/32 inches, 7 inches from core to core.

For more information write Cushman Inc., P.O. Box 82409, Lincoln, Neb. 68501 or call 800-228-4444, Circle No. 301.

**A GOOD RAIN CAN CREATE THE PERFECT GROWING CONDITIONS FOR THINGS YOU DON'T WANT TO GROW.**

Pythium blight can strike almost as fast as lightning. To protect your overseed investment from an attack, nothing works better than a preventive program of Apron-treated seed and Subdure fungicide.

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For more information circle #313.
Let's face it, most golf cars look the same. At Hyundai, we focused our resources and research on high performance, low maintenance and longer life. Hyundai Golf Cars were not created in a vacuum, but rather from lessons learned on the golf course. Round after round after round, Hyundais were driven to perfection.

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GOLF COURSE DEVELOPMENT

REQUEST FOR PROPOSAL
The City of Dothan, Alabama has available a Request for Proposal (RFP) for the Design, Development, & Operation of an 18-hole Regulation Golf Course & Related Amenities. A pre-submittal conference will be held on September 24, 1990 in the City Commission Chamber of the Dothan Civic Center, 126 N. St. Andrews Street at 10:00 a.m., CST. Deadline for submitting proposals is December 21, 1990 at 2:00 p.m. CST. Interested parties may acquire a copy of the proposal packet by contacting:
The City of Dothan
Department of Leisure Services
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ATTENTION ADVERTISERS!!
The October issue of Golf Course News will feature an Equipment Update on: Irrigation and Pumping Stations Advertising Deadline for the October issue is: Friday, Sept. 14th.

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MOVE UP IN THE GREEN INDUSTRY
2 year AAS degree program in Golf Course Superintendent, Irrigation Management, Landscape Contracting & Park Supervision. Fully accredited, VA approved, expanded learning facilities, new equipment. Graduate job placement assistance available. For more information contact: Golf Course Operations/Landscape Technology Dept., Western Texas College, Snyder, TX 79549.

NEW — Golf Course & Landscape Equipment Mechanic Program
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BUSINESS OPPORTUNITIES

Need to Advertise Your... EMPLOYMENT OPPORTUNITY, BUSINESS OPPORTUNITY, PRODUCTS & SERVICES?
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(813) 576-7077
Golf Course Marketplace

To reserve space in this section, call Simone Lewis, 813-576-7077

September

46—The Institute of Groundsmanship's Sports & Leisure World Trade Exhibition at the East of England Showground in Peterborough, Cambridgeshire, United Kingdom. For more information contact Milton Keynes at The Institute of Groundsmanship, 122-124 Church St., The Agera, Wolverton, Buckinghamshire MK12 5LQ; telephone 0800-312511.


10-11—Golf Course Development and Investment Seminar at Oak Brook Hills Hotel and Resort in Oak Brook, Ill. Call 212-822-1200.


14-17—Florida Recreation and Park Association State Conference in Sarasota, Fla.


20-21—GCSAA seminar in Sacramento, Calif., on Environmental Considerations in Golf Course Management.


24—GCSAA seminar in Denver, Colo., on Maximizing Job Satisfaction.

25-26—GCSAA seminar in Caledon, Ontario, Canada, on Golf Course Construction Techniques and Management.

27-29—Golf Collectors Society's 20th annual meeting, including a private auction and two-day public trade show. Highlights include a members-only reception at the Alabama Sports Hall of Fame and the Hickory Hackers 18-hole tournament, with players using only wood-shafted clubs and wearing 1900s-style attire. Contact Bob Tidwell at 205-328-3885.

30-40—Florida Turfgrass Council Expo at the Orange County Convention Center in Orlando, Fla. Call 708-4394000.

Michael Reilly at Wynlakes.

Fall Market at the Anaheim (Calif.) Convention Center, Call 708-4394000.

11-12—GCSAA seminar in Somerset, Pa., on Plant Nutrition and Fertilizers.

11-14—National Sporting Goods Association Fall Market at the Anaheim (Calif.) Convention Center, Call 708-4394000.

22-25—GCSAA seminar in Little Rock, Ark., Continued to page 37

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FOR SPRINKLER HEADS

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For free information circle #168

December
23 — GCSAA seminar in Denver, Colo., on Environmental Considerations in Golf Course Management.
34 — GCSAA seminar in Rochester, N.Y., on Turfgrass Insects: Basic and Advanced Principles.

*—For more information or to register, contact Betsy Evans, education coordinator, Golf Course Superintendents Association of America, at 800-472-7878 or 913-841-2240. The seminars are dependent upon the availability of the instructors, and are therefore subject to change. One-day seminars cost $100 for GCSAA members and $120 for non-members; two-day seminars cost $180 for members and $210 for non-members.
McMillan, Darling put heads together and, voilà, Heads Up

BY MARK LESLIE
Golfcourse irrigation contractors, builders and superintendents can sleep soundly during construction projects — now that a new flag assembly is on the market.

The continual problem of destroyed sprinkler heads on a project is "a nightmare to the irrigation contractor and superintendent," said Pat McMillan of Chandler, N.C., an on-site supervisor and finish shaper with Robert Trent Jones Sr. After struggling with this nightmare for years, McMillan and Gary Darling of Sapulpa, Okla., a Jones architect's representative, decided to do something about it.

The result: Heads Up Flagging, a simple 5-by-6-inch orange plastic flag on a 36-inch metal pole that sticks into a rubber mount. Using a powerful new tape from 3M Company, the mount is stuck on the top of the head, so that the flag is not touched by water from the sprinkler.

Tested in intense heat, extreme cold and high winds, the flag assembly has proven it will save money and major headaches on golf courses, parks and athletic fields.

"For years we have griped and moaned about people putting wooden stakes beside the sprinklers," said Dave Davis of Golf Course Irrigation and Design Consultants in California. "The sprinkler would rotate past the stake and it would block out an area of irri-

Darling said use of wooden sticks around the sprinklers, McMillan added that on construction sites it is often one man's job every morning and night to walk the course to make sure all the stakes are up. "It's a lot of labor wasted — not to mention how many heads are being run over," he said.

The cost of broken sprinkler heads alone is estimated at several thousand dollars per course. Then there are quick-couplers and valve boxes that, if unmarked, can be hard to locate. Underground pipes may also be broken.

Davis, who is testing the flags on several courses, said, "You had a good 5 percent loss on a golf course before using these flags. If you had 1,000 heads it would be easy to lose 50 heads to breakage.

That means $5,000 to buy new heads, plus another $5,000 in manhours for repair.

And, Darling added: "If you had a stake blow off on a green and you had to redo the surface of the green, you're talking about $3,000, $4,000, $5,000 in damage.

"Per head it will cost into the hundreds, maybe into the thousands, for repairs."

An average of 2,000 flags per course are needed in the Western United States. In the East, 800 to 1,400 might suffice. At a cost of $1.29 per flag and holder, that's a cost of $1,000 to $2,500.

"When you're spending $5 million, $6 million... for a golf course; $1,400 is very little for marking irrigation heads," said McMillan.

"The irrigation system — at $500,000 to $1 million — is the most expensive thing you're putting into a golf course. It is the life support of the whole course," said Darling. "This is (equal to a) miscellaneous cost."

McMillan added "nearness" to Heads Up flags' list of positives.

He told of a course he visited where a superintendant had stack lengths of one-inch PVC pipe into the ground to mark heads.

When prospective homebuyers visited, "Here you had a $10 million golf course and they looked down the fairways and saw all this white pipe sticking out of the ground... The flags can only make things better for irrigation contractors and designers," he said.

They are also more convenient for the builder. Said McMillan: "An irrigation contractor can just sit them on a seat in the truck versus the old wooden stakes where you have a whole pickup full in the back and you're constantly scrounging through them.

To put one up, you have to take a roll of marking tape, wrap it around the stake, tie a couple of knots in it... It's just not convenient."

The flags are basically used during a golf course's grow-in period — usually one year.

McMillan and Darling are delighted with the response from people who are testing them.

"Four golf courses in Europe are using them and the response is incredible, especially in Ireland where they've done things the old, old way for so long," McMillan said.

Davis is so happy with the flags that his company is specifying their use on new jobs.

"I've been putting them out on several golf courses to test them in different environments," Davis said. "We've got some in the Las Vegas area and other parts of the desert... in the hottest part of the season — 120 degrees — and we haven't had any come off."

"We're also testing for wind in the high desert," added Davis, who has yet to lose one of the 20 flags in an area that has 15- to 20-

Darling reported similar results at his Oklahoma home, which he calls "the windiest place in the world."

Darling and McMillan also gave the unit a "freeze test." They stuck the flag holder to the bottom of a coffee can filled with water and froze it. Every day for 30 days they put the can and holder under hot water, then returned them to the freezer. The rubber mount remained fixed in place.

"Put it through the heat test, too," said McMillan, who put it on the lid of his barbecue grill. "It actually adheres better with heat."

He said the tape attaches to wood, rubber and or any irrigation head on the market.

The question now is, can Heads Up Flagging keep up with the demand once the word gets out to the industry.

Darling said his Tulsa, Okla., manufacturer is capable of making 2,000 a day. "But we don't even have our (advertising) pamphlets done, yet."

If you have had an innovative solution to a golf course problem, let us know. Call the editor at 207-846-0600.

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<td>157 Willadsen Scale Models</td>
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Proven Effective Beyond A Shadow Of A Doubt.

Only one goosegrass/crabgrass herbicide can offer 10 years of proven effectiveness: SCOTTS® Goosegrass/Crabgrass Control.

When used as directed, it provides the safest, most effective method for eliminating goosegrass and crabgrass on greens.

SCOTTS Goosegrass/Crabgrass Control offers a unique formulation of Betasan® and Ronstar® that requires only one application for season-long control.* It comes ready to use, with no measuring or mixing required. And its uniform particle size makes it easy to apply evenly with a rotary or drop spreader.

Your Scott Tech Rep is a trained agronomist who can help you implement a complete preemergent weed control program that will keep your course on par with the best in the country.

With 10 years of successful Goosegrass/Crabgrass Control applications (on more than 4,000 golf courses), your choice is clear: You can depend on Scott’s proven performance record, or someone else’s promises.

For more information, contact your local Scott Tech Rep, or call 1-800-543-0006.
And nobody matches Jacobsen greens mowers for precision cut, balance or durability.

Over 65 years of powered greens care experience and innovation make Jacobsen walk-behind greens mowers the industry’s standard. And they keep getting better.

The new front roller and no-rust aluminum drive roller are precisely machined to ensure mowing accuracy. With the recognized superiority of the Jacobsen designed reel and bedknife combination, this system delivers the smoothest, truest cut, down to \( \frac{3}{8} \)".

And only Jacobsen uses a 2-cycle engine for longer life, less maintenance and reduced vibration. This smoother running engine is positioned for side-to-side, fore-and-aft balance, for the most precise cut possible.

Choose the 22" unit for the finest tournament-quality cut. Or select the 19" Championship greens mower for an unmatched cut on highly undulating greens. Attach the exclusive Turf Groomer™ for faster, truer, healthier greens.

Team either Jacobsen greens mower with the Turf Groomer greens conditioner for the finest greens grooming system available.

Proven on tournament-play courses across the country, this system increases putting speeds up to 20% without lowering your height of cut. And it cuts those horizontal grasses and surface runners other mowers miss, to reduce grain. For healthier, better looking greens. Greater uniformity from green to green. And truer putting.

Ask your Jacobsen distributor for a free demonstration. Attractive lease and finance plans available.

Or contact: Jacobsen Division of Textron Inc., Racine, WI 53403.