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Superintendent Dick Schmidt has beautified his Port Ludlow (Wash.) Golf Course. See pages 18 and 19 for the lowdown on innovations in wildflower use.

Jones challenges architects  

Robert Trent Jones Jr. took over the gavel as president of the American Society of Golf Course Architects in April and promptly gave a rallying call for the building of 5,000 new golf courses in the United States in the next 10 years. 

Jones, of Palo Alto, Calif., who took over the reins from Pete Dye, told ASGCA members at their annual meeting in Pinehurst, N.C.: "The National Golf Foundation says we must add at least one golf course every day for the next 10 years to meet the exploding demand for golf throughout the country."

"We should probably round that figure off to 5,000 before the year 2000 and consider it one of the greatest challenges that this organization has ever faced." 

Jones said it is also "a tremendous challenge to the creative energy and talent of each one of us individually. The game has never been more popular than it is today, and it is our responsibility to meet that challenge." 

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Construction up 45%  
The growing wave of golf course construction in the United States rose 45 percent in 1988, according to the latest research by the National Golf Foundation. 

With Florida leading the way for the fourth straight year, 211 new golf courses opened for play in 1988, compared to 145 in 1987. 

Another 716 were either under construction or being planned, compared to 513 in 1987, the study found. 

Florida accounted for 35 new courses, while Texas followed with 20, Georgia with 19. 

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Oregon's seed industry in trouble  

BY MARK LESLIE 
Oregon's State Legislature is considering a field-burning ban that would endanger the country's major providers of cool-season golf course grasses. 

Oregon's 70 seed companies provide all U.S.-produced ryegrass, bentgrass, Chewsings and creeping red fescues, half the U.S.-produced tall fescue and about one-fourth its bluegrass. 

But in the process, between mid-July and the end of September each year, the 800 farmers who grow seed burn their fields to purge them of the weeds and disease that endangers the grass seeds. And last year when one farmer was burning a field, the wind changed direction, blew the smoke onto a major highway, and a seven-death, 37-care pileup resulted. 

Continued on page 14

ClubCorp contracted for Moscow site  

BY MARK LESLIE 
A U.S.-Russia joint venture company has contracted Club Corp. International to build and then manage an 18-hole golf course, country club and conference center outside Moscow. 

JV Dialogue, a company formed in November 1987 by Chicago Research and Trading owner Joe Ritchie and six Russian firms, plans the complex as part of a technical village it is building on the collective farm Leninski Lutch (Lenin's Light) outside Moscow. 

Ritchie-formed Management Partnerships Inc. to formally separate CRT from the Russian project. But CRT Executive Vice President Gus Pellizzi is working on the plan and is upbeat about its prospects. 

"The concept of the Leninski Lutch project is to develop a village which would enable people to live and work in a pleasant place with a pleasant environment," Pellizzi said. 

"We thought what we would like to do was
Yamaha believes a factory ahead of its time yields cars that stand the test of it.

40 million dollars is a lot to spend on a golf car. But that's what it cost to open our new factory in Newnan, Georgia. We think you'll agree the money was well spent.

After all, the technological advances that occur every hour in our new facility help us build you the finest, most durable golf cars in the world.

Consider for example, our new electrostatic and electrodeposition painting processes. By giving parts and paint opposite electrical charges, each part is uniformly coated, even in places that seem impossible to reach.

To make doubly sure that anything welded together stays that way for many years, we now utilize computer-aided robotic welding. Because only a robot can endlessly repeat such a precise, lasting weld.

In our quality control lab, parts are subjected to punishing tests and severe scrutiny before they ever reach the assembly line. This way, if there's a problem, it happens on our turf and not yours.

But don't be confused by all this talk of high tech. The goal of our new factory remains truly simple—build golf cars that are more powerful, more reliable and more profitable than any other make you might consider.

To learn more about the golf cars now produced by our Georgia factory, call 1-800-447-4700 for the name of your Yamaha USA Golf Car Dealer.

Yamaha USA
Better in the long run.
Dow, Eli Lilly form Dow Elanco

Company will be one of industry's six largest in world

Dow Chemical Co., Midland, Mich., and Eli Lilly Co., Indianapolis, Ind., will join forces to form one of the six largest agricultural-chemical concerns in the world. To be called Dow Elanco Inc., the joint venture is expected to have sales of about $1.5 billion in its first year. Industry analysts said the venture would help both companies be more competitive in the world market.

One of Lilly's major agricultural products is the herbicide Treflan, which is used on soybeans and cotton crops, while Dow manufactures Lorsban insecticide for the corn market. The same farmers usually grow both crops.

Although pharmaceutical companies have formed partnerships in the past, mainly for marketing purposes, this is believed to be the first such joint venture in a non-pharmaceutical area with another major company.

Dow Elanco will be based in the Indianapolis area and will include the parent companies' plant-science businesses, along with Dow's industrial pest-control business. The venture does not include Lilly's animal-health business.

The venture fits Dow's long-term strategy of moving into specialty markets to balance its plastic and industrial chemical businesses. John L. Hagaman, formerly president and general manager of Dow's Agricultural Products Department, will be Dow Elanco's president and CEO.

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Irrigation school picks president

The board of directors of the newly opened Professional School of Irrigation in Chantilly, Va., has appointed Tim Wilson president and director of curriculum.

The board also named Jack Morrisroe general manager and vice president, and Garry Brewer vice president of marketing. P.S.I. is a hands-on school offering one- to two-week classes.

---

Institutional Series

MVP In All Fields Of Athletic Competition

Most Versatile Performers

That's why Hunter Institutional Series sprinklers score big in all fields of athletic competition.

They have the latest safety and vandal-resistant features, plus the muscle for dependable performance. At the top of the line-up are safety-cushioned rubber covers, slip clutch protected drive systems, break resistant arc stops, locking caps and small exposed surface areas. Plus the extraordinary versatility of Hunter's interchangeable nozzles.

Now a golf course or field manager can water his turf exactly the way he wants. By using a higher application rate to match older sprinklers in his system. Or by using a modern low precipitation rate with lower operating pressure for water and energy savings.

In either case, you'll find a remarkably even distribution of water and a higher quality turf in all soil conditions.

Look for Institutional Series sprinklers at work on the gridiron, on baseball or soccer fields, golf courses, bowling greens, grass or clay tennis courts, even horse tracks.

And remember, the whole team is backed by a full five-year, over-the-counter exchange warranty (not prorated).
Developers strive to meet regulatory decision

There is little spring planting going on at the proposed Sherman Hollow golf course in Huntington, Vt., but there is plenty of digging. The $22-million project, featuring an 18-hole layout as its centerpiece, had been mired for more than four years in state and district environmental board sparring with Sherman Hollow, Inc. President Paul Truax and state associates.

Truax also is principal owner of the Sherman Hollow Ski Resort, which did not open last winter because of insufficient snow.

Backhoes, bulldozers and men with shovels in recent weeks have been probing the planned site of the golf course under the watchful eye of geologists.

The extensive earth-moving is the first step in checking course water supply, its purity, availability and contaminant possibility.

It's part of a fairly lengthy list of measures outlined by the state Environmental Board as conditions to be met before course construction can proceed.

The extensive digging operation has been expensive, but Truax remains undeterred.

'Shadow Through' campaign kept alive

The Golf Course Superintendents Association of America and the Professional Golfers' Association of America are following through on their promotional campaign of last year.

"Practice Your Follow Through" is the new theme to a campaign designed to remind golfers to repair ballmarks, rake bunkers and replace divots.

The 17 x 22 inch four-color poster features LPGA star Nancy Lopez, Senior PGA Tour star Chi Chi Rodriguez and PGA Tour Player of the Year Curtis Strange. More than 30,000 will be distributed to golf shops, merchandise centers and golf courses throughout the world.

It was noted that "the golf professional and the superintendent are essential players on a golf course team which makes the playing experience enjoyable for the 22 million amateurs who participate in the sport today."

"Last year's campaign created an awareness to golfers of all ages that they have a responsibility to help maintain the conditions of play on the course," according to the GCSAA.

Small, Huff both honored

Charles (Jack) Small and Dave Huff shared the Maine Golf Course Superintendents Association's 1989 Distinguished Service Award.

Presentations were made at the recent annual Maine Turfgrass Conference and Show in Portland.

Small has been for 30 years superintendent at Abenaki Country Club, Biddeford Pool, where he resides. He's also chief of the town's volunteer fire department.

Huff, a resident of Bow, N.H., is a longtime senior technical representative of Scotts ProTurf, covering Northern New England and Canada.

He was cited for his continuous aid to Maine golf that's far transcended his 35 years in the business.

Roger Lowell, course super at Webhannet Golf Club, Kennebunk Beach, noted that Huff was for many years conference program chairman and in that capacity helped line up many prominent speakers.

Al Bryant hit over 4500 fairways with this iron last year

Rain used to be the problem. The reason Al Bryant, superintendent at Florida's Riviera Country Club, missed a lot of fairway mowing. No more.

"Since the John Deere 305 replaced our ground-driven mowers a year ago, I've been able to work on days and in areas I couldn't before," says Bryant. "I now our fairways five times a week with the 305—put over 1500 hours on it last year.

"Our fairways have also improved because of the 305. The quality of cut is so much better. Its constant reel speed and ability to better follow ground contours have made all our fairways more uniform."

Bryant also uses a John Deere 855 Tractor, 1650 Tractor, 151 Vacuum Sweeper and two 22-inch Walking Greens Mowers at his course.

"Parts back-up has been a big factor in our decision to continue buying John Deere equipment," says Bryant. "We get almost all our parts in one day—and that means a lot in this business."

Talk to your John Deere distributor today for more information on all we have to offer. Or write John Deere, Dept. 956, Moline, IL for free literature.

We know, like Al Bryant, you're going to like what you see.
Lesco consolidates manufacturing

Lesco Inc. has reported it will close and sell its Elyria, Ohio, plant and consolidate equipment manufacturing at its Sebring, Fla., facility.

The Cleveland-based Lesco also said it expects to raise prices on many products to boost profits.

The spreaders, sprayers and turf renovators made in Elyria will now be produced at the Sebring plant, where the company makes walk-behind and riding mowers for golf courses, Lesco said.

Meanwhile, Chairman and Chief Executive Officer James I. FitzGibbon said Lesco had increased sales of $15,335,000 in the first quarter, which ended Feb. 28, and lost $1,833,000, or 45 cents per share. In 1988, Lesco had sales of $14,454,000 and a loss of $754,000.

"Our first quarter is traditionally the slowest of the year and not expected to generate earnings," FitzGibbon said. "The higher loss in this year's first quarter, despite increased sales, is due largely to costs related to the opening of new Lesco Service Centers, the addition of Lesco sales trucks, and current overhead required to meet future increased customer demand for product."

He said the price increases are due to general cost increases experienced throughout the industry, and Lesco's increases are expected to have a positive impact on profits the rest of the year.

FitzGibbon said sales improved for the quarter at the 42 "stores-on-wheels."

Turf pros recruiting in Japan

Horry-Georgetown Technical College in Myrtle Beach, S.C., was one of only 29 schools selected to participate in the inaugural U.S. Two-Year College Fair in Tokyo April 29-30.

Of the 340 schools that applied, Horry-Georgetown was picked by Japan's International Cultural Studies Group and the American Association of Community and Junior Colleges for its outstanding program in Golf Course Management.

Ed Zahler, head of the GCM program, and Dr. Paul Alexander, an instructor, will represent the school.

In two six-hour sessions, the men hope to sign up at least six Japanese students for next year.

"I don't know of any turf management programs at all in Japan," said Alexander, a globe-trotting agronomist recently retired from Clemson University. "And they sure have a lot of golf courses."

Cushman expanding Florida plant

The Cushman Division of Outboard Marine Corp. is already expanding the Edgewater, Fla., manufacturing facilities of the former Noland Car Co., Inc., which Cushman bought in March.

A Cushman official announced the expansion and said the firm will use its acquisition of Noland to extend the Cushman product line.

Manager Stuart Rafos said the Cushman Division's line will now include "a basic, low-cost maintenance vehicle as well as a wide variety of specialty vehicles."

"It's a natural extension of our business," Rafos said, "one that will help us better meet the needs of the markets we now serve, plus move into new markets."

Noland vehicles are already being marketed under the Cushman name.

Ryder raises contribution

The Ryder System has increased from $10,000 to $15,000 its annual contribution to The Golf Writers Association of America Scholarship Fund.

This means, said scholarship committee chairman Marino Parascenzo of the Pittsburgh Post Gazette, that each of the five scholarship recipients will begin his senior year with $3,000 for the fall term.

Ransomes sets record

Ransomes Sims & Jefferies PLC has reported record 1988 sales exceeding £160 million.

The sales are up 25 percent over 1987 figures and mark the sixth consecutive year of record sales and profit growth for the firm, which manufactures commercial and turfgrass mowing equipment.
'Northern Texas Golfer' cited

The Northern Texas PGA's Northern Texas Golfer 1988 Annual magazine and the Wisconsin Golf Course Superintendents Association's The Grass Roots are among publications cited for excellence by the National Golf Foundation.

Northern Texas Golfer, under Executive Director James McAlie, was cited for overall excellence among state and regional professional association magazines. In that category Shaw Publishing, Inc.'s PGA World Golf Hall of Fame Magazine, under associate publisher Sam Rogers, was given special merit.

The top club magazine, according to the NGF, was Wilshire Club News and Golf Divots of Los Angeles, under general manager Roland Frankel.

The Grass Roots, edited by Monroe S. Miller, won the overall excellence award in the state and regional professional association newsletter category. Cited for special merit in that category were the Midwest Association of Golf Course Superintendents' The Bull Sheet, edited by Fred D. Opperman; Golf Course Superintendents Association of New Jersey's The Greenside, edited by Iona F. Gray; and Southern California Section PGA's SCPGA News, supervised by Director Donald L. Sandefur.

NGF selected Hallbrook Country Club's (Kansas) Newsletter for overall excellence among club newsletters, and gave special merit to Moon Valley (Ariz.) Newsletter, Sawgrass Country Club and Oak Bridge Club (Fla.) Newsletter, and Valley Views by Huntington Valley Country Club (Pa.).

Overall excellence in the state and regional amateur association newsletter class went to Arkansas Golfer, published by Arkansas State Golf Association under Executive Director Charles E. (Monk) Wade. Special merit was awarded the Houston Golf Association's Greater Houston Golfer, Pacific Northwest Golf Association's PNGA News, South Dakota Golf Association's Tee-to-Green, and Wisconsin State Golf Association's Wisconsin Amateur Golfer's Newsletter.

The Georgia State Golf Association's Golf Georgia, under Executive Director Stephen F. Mon, won overall excellence in the category for state and regional amateur association magazines. Special merit was awarded the National Amputee Golf Association's Amputee Golfer, Southern California Golf Association's FORE Magazine, and Northern California Golf Association's NGC News.

The NGF chose the Minnesota Section PGA, under Executive Director Don Waryn, to receive the overall excellence award for its 1988 Minnesota PGA Golf Annual — the best among the annual state and regional professional association directories. Special merit picks were the 1988 Michigan PGA Yearbook and 1988 Michigan PGA Roster/Media Guide of the Michigan PGA Corp.; New England Section PGA Directory of the New England Section PGA Yearbook 1988 of the New England PGA Inc; and Sun Country Section PGA Directory of Sun Country Section PGA.

Annual state and regional amateur association directories were headed by overall excellence winner 1988 Annual Report by Golf Association of Michigan, under Executive Director Jeff Rivard. Special merit was awarded the Kansas Golf Association 1988 Annual; Metropolitan Golf Association Annual Report; and Wisconsin State Golf Association 1988 Annual Report.

Veteran writer Smith dies

Vince Smith, veteran golf writer for the Fort Myers, Fla., Newspaper, died last February. Smith had been scheduled to deliver the eulogy at a memorial service for Herb Graffis, founder of the Golf Writers Association of America and the National Golf Foundation.
Recently I had the opportunity to visit the West Coast to make advertising calls on primary prospective clients for Golf Course News. My plan was to visit Southern California early in the week, and on to the great Northwest toward week's end.

The obvious reason for visiting the Northwest was to present Golf Course News to the seed and turf producers in that great part of our country.

In preparing my itinerary, I called Dave and Leah Nelson of the Oregon Fine Fescue Commission to make an appointment. Leah explained that Dave was so busy working with the legislature that he could not find the time to meet.

Further questions and discussion led me to hear of the possible regulation of the seed and sod industry in Oregon.

During my two-day visit to Oregon, I had the pleasure of driving south from Portland to Halsey, with stops in Hubbard and Albany.

One cannot help but appreciate the open greenery and beauty of the seed and sod farms in this area. Hundreds of thousands of acres support this growing industry, of which a good percentage goes to the development of golf facilities.

As our industry continues to prosper we plan to keep you informed of national and regional news developments which will have an effect on the future development of golf courses.

Incidentally, if you ever have an opportunity to visit Halsey, Ore. (population 684), don't miss breakfast at the Edson Country Inn.

Charles E. von Brecht  Publisher

Handle your grub situation fast, before things get really ugly.

At the very first sign of grub damage, apply DYLOX® insecticide. Nothing kills all species of white grubs faster. Within hours, the grubs are dying and the turf is recovering. When grubs threaten, act fast.

Use DYLOX. And turn an ugly little problem into a lot of beautiful turf.

For more information, contact Mobay Corporation, Specialty Products Group, Box 4913, Kansas City, MO 64120.

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For Free Information Circle No 124
Florida Irrigation Society picks Swanson president

John Swanson of Hydro-Tech Pumping Systems in Pinellas Park is the new president of the Florida Irrigation Society.

Swanson, who said his top priority is completing agricultural irrigation standards, heads a new slate of officers that includes Vice President Dick Dunn of R&D Associates in Delray Beach; Secretary Jerry Robey of Toro Co. in Palm Harbor; and Treasurer Brian McMahon of Boyle Engineering Corp in Orlando.

Robert Trent Jones Jr. of Palo Alto, Calif., heads a new slate of officers of the American Society of Golf Course Architects who assumed their posts at the group's 43rd annual meeting in Pinehurst, N.C.

Jones' father is a past president and the only living founding member of the ASGCA, and his brother, Rees, is also a past president of the society.

Dan Maples of Pinehurst was elected vice president, while Tom Clark of Wheaton, Md., was elected secretary and Arthur Hills of Toledo, Ohio, treasurer.

Elected to the Board of Governors were Jeff Brauer of Arlington, Texas, Keith Evens of Montclair, N.J., Tom Fazio of Jupiter, Fla., Robert Muir Graves of Walnut Creek, Calif., Denis Griffiths of Norcross, Ga.

Also, Gary Kern of St. Louis, Mo., and Ed Scay of Ponte Vedra Beach, Fla.

Previously elected governors are Tom Clark, Pete Dye, Arthur Hills, Robert Trent Jones Jr., Maples and Robert Walker.

Jones Jr. has designed more than 150 courses in 20 countries, including The Links at Spanish Bay in Pebble Beach, Calif., Poppy Hills Golf Course in Monterey, Calif., Coto de Caza Golf Course in Orange County, Calif., Sugarloaf Golf Course in Carrabassett, Maine; Desert Dunes Golf Course in Palm Springs, Calif.; and the National Golf Club in Australia.

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AIMRA leader: reps narrowing product lines

Bill Stephenson is the new president of the Agricultural and Industrial Manufacturers Representatives Association (AIMRA).

Stephenson, of Stephenson's Agri Sales Co., Inc. in Poultney, Vt., reflected on changes in the industry at the group's annual convention in Reno, Nev.

"More reps are narrowing their lines," he said. "They are more inclined to carry three or four lines rather than eight or 10 — without expanding their territories.

"One result is that there is room for more reps to meet the needs of the other manufacturers who are not retained by the established rep firm."

AIMRA's convention featured a panel discussion on "romancing your principle"; a seminar for manufacturers on "how to market through reps"; an address on selling to rental yards; a session on retail financing; and a presentation on electronic mail.

AIMRA is headquartered at Mission, Kan.

Rossi heads GCBA

Don Rossi, the executive director of the Golf Course Builders of America, was omitted from the list of GCBA officers in the April issue.

Wholesalers' education to expand

Ernie Hodas, president of Century Rain Aid in Madison Heights, Mich., has been elected chairman of the board of the National Association of Wholesaler-Distributors.

Hodas said he aims to expand NAW's effort to educate its members' employees, vendors, customers and the general public about free enterprise and the economic power of wholesale distribution.

NAW monitors federal government actions in Washington, D.C., for its 121 national wholesale distribution industry trade associations.

It represents 45,000 wholesale distribution companies.

Hodas is a past president of the Irrigation Association.

Introducing Hassle-Free Hazard Markers

While your golfers will appreciate the colorful visibility of Standard Golf's new PVC Hazard Markers, your maintenance crew will appreciate them even more.

That's because they're remarkably easy to remove and replace when mowing or trimming — saving time, effort and money.

Once the 1 1/2" steel anchors are positioned in the ground, markers simply slide out and slide in. It's that simple! A driving cap, 12 markers and 12 anchors are included with each carton.

What's more, they're designed and constructed for years of durable, hassle-free use.

To order or for more information, contact your nearby Standard Golf Distributor today!
Hoffman promises response to grassroot needs at CMA

Edward L. Hoffman, general manager of Racine (Wis.) Country Club, has taken over as president of the Club Managers Association of America for one year and promises a drive toward more grassroot leadership.

Hoffman, a CMAA member since 1961, heads a slate of officers that includes Kenneth W. Brown, general manager at Indianapolis (Ind.) Athletic Club, as the new vice president and James D. Pearce, general manager of the Dallas (Texas) Club, who won a three-man race for the secretary-treasurer's post.

New members of board of directors are Richard Kolasa from Skyline Country Club in Tucson, Ariz.; Norman J. Spitzig, Jr. of Fort Wayne (Ind.) Country Club, and Randall Gudasowski of Indian Trail Club in Franklin Lakes, N.J.

Hoffman's drive for grassroot involvement has already begun with the appointment of 13 regional representatives who give members "one more link with the board," Hoffman said.

"We have 13 national directors as well, and it's my conception and feeling that we will not only double the number of people involved in the leadership, but by virtue of taking somebody right from the grassroots they would perhaps get a more unbiased opinion than national directors." Hoffman said that by appointing the regional representatives, CMAA is feicing to the national directors. Faced with fewer chapter visitations, they can now be more active in committees and receive valuable training for future officerships.

"Also, I feel the regional representatives will be in training to be future national directors," he said.

CMAA has announced a new tiered dues structure for clubs with multiple memberships, which offers the clubs better opportunity to have more of their management people deriving the benefits of membership in CMAA.

Hoffman said one of "the biggest and most important things" CMAA plans this year is expanding its Business Management Institute to include sessions preparing members for their master's degree and for the master club manager designation.

The organization also announced that Commerce Publishing Co. of St. Louis, which publishes CMAA's "Club Management," will not publish beyond its contract which expires Nov. 1.

"We are evaluating the relative merits of finding a new publisher or publishing our own magazine," Hoffman said. "In any event, we will continue with a publication." CMAA also is looking for a new building. It sold its building in Bethesda and wants a new site, preferably in Alexandria, Va.

Hoffman, who has been Racine CC general manager since 1984, has been a national director of CMAA since 1983, and served as treasurer in 1987 and vice president in 1988.

He has been general manager of Green Acres Country Club in Northbrook, Ill., Chestnut Hill Country Club in Newton, Mass., and Thomson Club in North Reading, Mass., among other positions, including being part-owner of restaurants at three Holiday Inns.

His wife, Bonnie, is also a CMAA member.

American Seed Trade Association sets eyes on D.C.

Federal government speakers and a congressional reception will highlight the 106th Annual Convention of the American Seed Trade Association, June 24-28 in Washington, D.C.

ASTA President Don McGillivray and a convention committee led by Hugh and Phyllis MacWilliam have organized a conference filled with committee meetings and tours and entertainment centered around the nation's capital. All the ASTA divisions and most committees will deliberate on the progress and problems facing the association and to chart the course of their activities for the coming year.

Following various committee meetings and tennis and golf tournaments Saturday and Sunday (June 24-25), the opening general session will begin at 9 a.m. Monday. Invited speakers include Vice President Dan Quayle and House Agricultural Committee Chairman Kika de laGarza.

The congressional meeting will be from 5 to 8 p.m. Tuesday. The Grand Banquet at 7:30 p.m., Wednesday, at which new officers will be installed, will close the convention. General meetings will be conducted at the headquarters hotel, J.W. Marriott at Pennsylvania Avenue and 14th Street.

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For Free Information Circle No 126
Got some swampland you want converted?

SUPERCOURSES

BY VERN PUTNEY
Buying swampland in Florida long has been a standing joke.
Felix C. Paguaga, now course superintendent at Boca Rio Golf Club in Boca Raton, Fla., in 1969 went one step farther in treacherous footing.
Paguaga left a comfortable post at the prestigious El Conquistador Hotel & Club in Fajardo, Puerto Rico, to take over "The Fountains Country Club" in Lake Worth.
The street address for the "golf course" was a vacant tomato farm, with empty fields and abandoned migrant housing units. The Fountains existed, if at all, strictly on paper or in the minds of developers.
When Paguaga in 1986 departed The Fountains for his current post, that complex had become 54 holes of exceptionally well-groomed holes, three challenging 18-hole layouts highlighted by a need for demanding shots over and around devilishly designed water pitfalls.
In addition, the complex seven miles south of West Palm Beach is a valuable piece of real estate.
Member condominiums abound and in places block out spectacular vistas.

Reach 20,000 decision-makers

Golf Course News. The newspaper of golf course business. Reach superintendents, greens committee chairmen and club board members, golf course architects, developers and builders—20,000 decision-makers.

Contact Charlie von Brecht, publisher, today to reach those decision-makers in the June issue of Golf Course News.
Closing date for ads is May 19th.
Doddertown's "C.H." Thomas name to remember

Quick promotion

Originally, Thomas was hired to supervise maintenance for the 18-hole Dodger Pines CC, a men's only golf club. The facilities operate year-round.

Thomas was employed for 2 1/2 years with the University of Florida Agricultural Research and Education Center in Ft. Lauderdale as a biological technician working with a plant pathologist on diseases of ornamentals and turfgrasses.

She earned a bachelor's degree in microbiology at the University of Central Florida, and an masters in microbiology with a toxicology minor at North Carolina State University.

She has had teaching assistantships for microbiology and general biology with the University of Florida Agricultural Research and Education Center in Ft. Lauderdale as a biological technician, and the University of Central Florida as a research assistant. She is a member of the Florida Turfgrass Association, Golf Course Superintendents Association of America, Golf Course Superintendents Association of America, Florida State GCSCA, Sports Turf Manager's Association, and the Florida certified nursery professional, and is on the board of directors of the Treasure Coast Golf CSA.

The Los Angeles Dodgers management was impressed with the person's credentials, wasn't taken aback when gender was revealed, and felt that the right "man" to do the job was Thomas.

Now the 1988 World Champion Dodgers, from star pitcher Orel Hershiser to Manager Tom Lasorda, plays an active role in the maintenance course team.

This venture into an expanded sports realm is novel. An estimated 200 women work in golf courses while at spring training.

California's largest course superintendent, Thomas is the first woman in the job? Curiosity is the first reason a woman would be less capable of doing the job than a man. With today's technology, 'women as capable as any man," Thomas says. "Fortunately, more intelligent, less prejudiced, more innovative and progressive individuals are doing the majority of hiring. These people want the best person for the job."

Equal treatment

"I've hired the majority of my current staff which includes but two women. I believe that men are more open with me about personal problems that occur at work, particularly dealing with other employees, than they would be with a male superintendent.

"One male employee, after a year of employment, 'confessed' that he originally had his doubts about working for a woman, but I had turned out to be a fair and competent individual.

"She relies heavily on chief aide Steve Carlsward, "a valuable right-hand man.""

"Dealing with club members has been interesting," she said. "Tom Lasorda, most accept my status. In fact, women members have told me they welcome the idea of women in the field, and wish they had such an opportunity.

"As a whole, men members are fairly agreeable, particularly those who have taken the time to know me personally. Those from the ancient school simply are not going to change."

"They think if something goes wrong the biggest reason is because she shouldn't be doing that type of work in the first place."

"In the women's locker room, it's amazing how much information is offered."

"I've been a member of two local supers' chapters. It's taken a while to feel like 'one of the boys.'"

"Most large technical meetings list few women attendees. That doesn't bother me. At least the restrooms aren't crowded!"

DODGERTOWN

BY VERN PUTNEY

Kathy Switzer became the first woman to run in the Boston Marathon by forwarding her application as K. Switzer.

Switzer was one of two women who requested permission from Manager Joe息息相关, to head the maintenance course team.

By 1988, women were composing the majority of power in those sympathetic words didn't help Thomas get the job, they inspired her not to give up.

When mothers and fathers of children who had been diagnosed with diabetes were introduced at the board of directors meetings, "the majority of my current staff are women," Thomas says. "Fortunately, more intelligent, less prejudiced, more innovative and progressive individuals are doing the majority of hiring. These people want the best person for the job."

Women as capable

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"Most large technical meetings list few women attendees. That doesn't bother me. At least the restrooms aren't crowded!"

Golf Course Acreage

West Central Florida

6,000 Acres

This acreage presents an unusual opportunity for golf course development. Located in Citrus County, approximately 30 miles north of the Tampa-St. Pete metro area. Utilities available. Majority of acreage zoned for single-family use with significant vested development rights. The land has dramatic topographical characteristics with distinctive rolling hills and mature pine forest covering much of the property. This property is offered for sale for $5,000 per acre. For complete information on this acreage, Contact:

Richard M. Farrell, President
SUGARMILL WOODS, INC.
(813) 954-4200
Hills' Arizona course will challenge golfers with wetlands, topography

The latest Arizona project for golf course architects Arthur Hills and Associates of Toledo, Ohio, is a testing layout for Fairfield Retirement Communities at Green Valley, just south of Tucson.

"The back nine will play to 6,700 yards from the back tees," said associate Keith Foster. "It is completely shaped, and irrigation is being installed. We are now shaping the first three holes." Foster points to the par 513th hole which, from an elevated tee with a mountainous backdrop, will dogleg left around two lakes.

Grassing will take place this summer, with opening due in late fall. Arthur Hills is well along with work on a daily-fee course in suburban Henderson, Nev. Much of the original lava rock site has been retained for a beautiful contrast and to emphasize significant elevation changes. Grassing is due this summer, with opening due in the winter season.

Also well underway is a daily fee-type course at Harbour Pointe in Snohomish County, near Seattle, Wash.

On the outward nine, marshlands are the predominant — and punishing — feature, while on the back nine huge evergreens and bolder topography, reminiscent of the Olympic Club in San Francisco, prevail.

Cobra is the bent that ends the long wait for a challenger to Penncross.

Penncross for color and turf quality in trials in North Carolina and Georgia.

From March through August in a North Carolina State trial Cobra's turf quality was judged superior to that of both Penncross and Penneagle.

On a golf green built to USGA specifications at Griffin, Georgia Cobra's color was rated superior to that of Penncross in March, May, August and October and better than Penneagle's color in March, August and October.

The North Carolina trials also showed Cobra to be superior to Penncross in dry root weight and to have better resistance to dollar spot.

Very fine textured, heat, cold, disease and drought tolerant, Cobra is the creeping bentgrass of the future.

Eglin AFB's new nine retains environment

A nine-hole addition to Eglin Air Force Base's golf course in Fort Walton Beach, Fla., is scheduled for opening this summer, bringing the total golf complex to 36 championship holes.

Course architect Charles F. Ankrom of Stuart, Fla., believes the layout may be among the best of all military bases in the United States.

Grassing was completed last October. On rolling terrain, and divided by spruced Mill Creek, the site's elevation changes about 100 feet.

Mill Creek was discovered to be populated by the environmentally endangered Okalossa Darter (a small fish). All efforts were made to retain the stream wetlands in their natural state, with minimum disturbance.

The expansion nine, in addition to the existing nine, will play at 6,789 yards from the blue tees, 6,262 from the whites, and 5,501 from the reds. Par is 72.

Many terraces were created on protruding sand ridges; tees were placed to carry shots over the stream valley ravine; and Woody sandy terrain was carved to create a variety of topographic rolling features with much diversification.

A five-acre lake was created on holes 7 and 8, and the fill used to create numerous bold mounding features in the upland level areas.

Ankrom said the result is a dramatic contoured golf course unusual to Florida property, featuring terraces, pot bunkers, ledge traps, environmentally vegetated ravines, and rolls, knolls and contours in many areas typical to a combination of a mountain course and Scottish terrain.

Championship course faces McCumber

An 18-hole championship golf course to be known as Osprey Cove Golf and Country Club is slated for construction in a planned residential community in St. Marys, Ga.

The $11-million project is the first such undertaking for the Gilman Paper Co., which operates a division in St. Marys.

Osprey Cove GCC will be located on a 600-acre tract of land that includes and surrounds the existing St. Marys GCC on St. Marys Road, two miles east of Interstate 95 in Camden County.

Mark McCumber & Associates of Middleburg, Fla., has been commissioned to design and construct the course.

Michael D. Beebe, McCumber vice president, said, "Plans are expected to include five or six holes that play along and showcase the picturesque tidal marshes of the St. Marys River, creating a windswept, open feeling. The remaining holes will be situated in areas of typical south Georgia vegetation consisting of pines and palmetto, with a strong water orientation created by a series of man-made lakes."

The clubhouse is expected to be situated on an area offering a spectacular view of the marsh and St. Marys River and also overlooking holes 9 and 18, which finish to a double green situated on the edge of the marsh.

Approximately 530 home sites will be available. Other amenities are expected to include tennis courts, swim complex, docking area for boats and a marina.
Matthews integrates forest, course

A densely forested 192 acres over rolling topography challenged architect Jerry Matthews of Matthews & Associates in his design of Timber Ridge Golf Course in Bath Township of East Lansing, Mich.

Timber Ridge Development Co. plans to open the 18-hole, par-72 public course in May.

The course covers 6,655 yards on the back tees, 6,200 on middle and 5,245 on forward tees.

Matthews points to the course's picturesque views, especially from the elevated 10th and 17th tees, and the privacy along the heavily forested area, as unique features.

Two natural ponds mean three water holes on the front nine and four on the back nine. And the site includes an 88-foot elevation change and 61 bunkers.

Kidwell, Hurdzan finish courses

Several golf courses around the country designed by Kidwell & Hurndanz, Inc. will open this year — from the resurrected Carolina Trace course in West Harrison, Ind., to the 27 holes in a tidewater area for the open this year — from the resurrected Carolina Trace course in West Harrison, Ind., to the 27 holes in a tidewater area for the open this year — from the resurrected Carolina Trace course in West Harrison, Ind., to the 27 holes in a tidewater area for the open this year — from the resurrected Carolina Trace course in West Harrison, Ind., to the 27 holes in a tidewater area for the open this year — from the resurrected Carolina Trace course in West Harrison, Ind., to the 27 holes in a tidewater area for the open this year — from the resurrected Carolina Trace course in West Harrison, Ind., to the 27 holes in a tidewater area for the open this year. Kidwell & Hurdzan, Inc. will design two new courses that are being built in Ontario, Canada — one involving pro Curtis Strange as a design adviser for the first time in North America.

Both courses are scheduled to be completed in August and to open in 1990.

Strange is involved with Carrick in designing the King Valley Golf and Country Club course in Snowball. The 18-hole, 6,800-yard layout traverses wooded and rolling terrain, and water is in play on seven holes.

Bruce S. Evans is building the course for the owner, King Valley Investments. Rolling terrain at the base of the Niagara escarpment is Carrick's challenge for the course. The course is expected to open around Memorial Day.

Boone Links' nine new holes was a unique development in that the Ralph Drees Co. and Associates signed an agreement that gave Boone County the land for the course in exchange for the right to integrate housing along the new holes. The course features a waterfall along with several stone walls built by prisoners from the county workhouse.

The course is complemented by a commercial driving range, short game learning center and pay-by-the-hour putting green.

Hilcrest's nine new holes, built by Stambaugh, traverse very intense slopes that border a creek which in turn incises the site down its long axis. Kidwell and Hurndanz feel the course offers a "dramatic departure in earthsculpture, short in yardage but very demanding in shot value."

Two Carrick courses take shape in Ontario

Douglas Carrick of Robinson & Carrick Associates Ltd. has designed two new courses that are being built in Ontario, Canada — one involving pro Curtis Strange as a design adviser for the first time in North America.

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Lohman helping on back 9 at Settler's Hill Golf Club

Lohman Golf Designs of Crystal Lake, Ill., has announced it will assist in designing and building the back nine at Settler's Hill Golf Club in Batavia, Ill.

Tim Miles, president of John Jacobs' Golf Management, will oversee design and construction.

Bob Lohman feels the result of the combined efforts of Miles and Lohman Golf Designs will be a challenging and fair course.

The course is the first in Illinois to be built on a landfill.

Waste Management, Inc. dedicated the landfill, the Kane County Forest Preserve and the first nine holes at Settler's Hill to the city of Batavia last October.

Lohman Golf Designs is also working with Fuzzy Zoeller to design Boulder Ridge Country Club in Crystal Lake.

Settler's Hill Golf Course will be managed by John Jacobs Golf Management.

FACT:

"We need to build one golf course every day until the year 2000"

Our research shows the demand for golf in the U.S. is such that some 4,500 new courses are needed. This averages out to 375 per year. Unfortunately, the current rate is closer to 125 per year.

Clearly, golf course construction is not keeping pace with demand, especially in the public/municipal sector where the bulk of the demand is occurring.

Recognizing the impact this imbalance could have on the future growth and enjoyment of the game, the National Golf Foundation has developed programs to help communities realize the many benefits of golf course development.

Please contact us to learn how the NGF can help your community assess and meet its public golf course needs.
GOVERNMENT UPDATE

Florida bill would mandate irrigation

A bill reportedly will be introduced in the next Florida legislative session that would mandate testing and licensing for all irrigation contractors.

The Florida Irrigation Society supports the bill, according to FIS Executive Director Fred McGee. Saying that as much as 75 percent of Florida's water usage is directed toward irrigation of some type, McGee said, "It's almost criminal to allow such a great portion of our water resources to be controlled by individuals who have never been certified as competent."

McGee said the state has no expressed policy or code that addresses installation and fabrication of complete irrigation systems.

The National Club Association has appointed Thomas M. Walsh director of government relations, according to NCA Executive Vice President Gerard F. Hurley.

"With his unique background in legal, legislative and tax matters (Walsh) is a valuable asset to the association and the private club community," Hurley said.

Walsh, an adjunct professor of political science at Catholic University, joins NCA after four years of extensive legal and legislative work in private practice. He served as tax counsel for the U.S. Senate Committee on Small Business in 1984-85, advising the committee and its members on tax and energy issues.

From 1978-84 Walsh provided legislative assistance to U.S. Sen. Dale Bumpers. He advised Bumpers and the Senate Committee on Energy and Natural Resources on all energy matters coming before committees and the Senate. Walsh also served two years as senior tax attorney for the U.S. Department of Justice, a post he took after four years as attorney for the Office of the Solicitor at the Federal Power Commission, now the Federal Energy Regulatory Commission.

Walsh said he looks forward "to applying my experience to the challenges that lie ahead in furthering the association's interest and protecting the rights of the nation's private clubs." NCA is composed of 1,000 private social, athletic and recreational clubs, including 700 golf facilities, and is the only trade association serving the business, legal and legislative interests of private clubs nationwide.

Introducing Cutless.

A new kind of turf growth regulator that gives your course a bottom line boost:

More playability.

Continued from page 1

Continued on page 15
III. ruling puts some at risk

More vigorous state criminal prosecution of safety and health violations in the workplace is in prospect. An Illinois Supreme Court decision on Feb. 2 exposes corporate officials to increased risk of imprisonment and/or monetary fines for such violations. The American Seed Trade Association, 1030 15th St., N.W. Washington, D. C.; 20005, has copies of the ruling report prepared by ASTA legal counsel.

The American Seed Trade Association, 1030 15th St., N. W. Washington, D. C., 20005, has copies of the ruling report prepared by ASTA legal counsel. The agency announced on Feb. 7 that: "Any weed or imported weed seed listed in the Federal Noxious Weeds Act Regulations is subject to the FNWA even if occurs in a shipment of agricultural or vegetable seed." Prompting this decision was discovery of Serrated Tussock (Nassella trichotoma) in lots of grass seed mixtures containing tall fescue imported from Argentina. Previously, only those nine noxious weeds listed in Title III of the Federal Seed Act were cause for concern in imported seeds. The Federal Noxious Weed Act Regulations list many more seeds.

This is where perfect lies start on your fairway. New Cutless 50W from Elanco.

Unlike other turf growth regulators, Cutless doesn't stop the development of warm and cool season turfgrass. Instead, it reduces or slows your turfgrass' growth rate by shortening the internodes of the growth stem with no adverse effects on their roots. The result is improved turf quality and more playable fairways.

With Cutless, your turfgrass appears thicker and stronger for a denser, more consistent playing surface. Golf balls just naturally sit up better. Cutless also reduces your water use, resulting in less turf wilt. And lower irrigation costs. It also gives your turf a rich, darker green color. But Cutless does more than that. Much more.

Find out more about giving your course more playability with Cutless. See your Elanco distributor. Or for a free brochure. call toll-free: 1-800-352-6776.

Elanco Products Company
A Division of Eli Lilly and Company
Dept. EM-455, Indianapolis, IN 46285 U.S.A.
Cutless—(trademark. Elanco)

1. Sprig of grass in normal state.
2. Seven to 10 days after Cutless application, mowed sprig sometimes exhibits slight discoloration of treated area and leaf tip browning.
3. Growth reduction peaks between third and eighth weeks, accompanied by darker green coloration and increased tillering.

Don't just take our word for Cutless. Take it from Scott Niven:

"The reduced clippings 30 to 50% when we mow fairways. My guys don't have to empty the baskets as much, so we save time and money on labor. But I think the best advantage is the reduction in the amount of water you have using Cutless. It's a marked difference."

"Initially, you get so little discoloration with Cutless that a golfer would never notice it. But after 4 weeks, the difference was between night and day on how dark green the Cutless turf lawn.

"Cutless helped us convert from 80% Poa annua to over 95% bentgrass within five years. But I'm just as impressed with how Cutless creates a much thicker turf. It makes the grass as tough as nails, helps the ball sit up higher for our golfers."

Oregon

Continued from page 14
Agronomy Unit have all said that without burning it would be difficult to maintain the seed industry as it exists today.

John Powell of Powell & Associates in Salem, who lobbies for the Oregon Seed Trade Association, said, "It's an extremely emotional issue." Some 500 people—"a majority of them from the farming community"—attended a public hearing on one bill on April 11, he said.

Powell said he has been negotiating with the governor's office, legislators and opponents of burning since late October and he expects a compromise to be worked out. "The fact is, the hearings usually don't change any minds," he said.

Jim Carnes, president of International Seeds and immediate past president of the American Seed Trade Association, said, "I do not feel there will be a ban at this time.

"The governor (Neil Goldschmidt) has said he will veto a ban. He wants action taken but the seed industry to survive." Carnes said the seed industry has offered these compromises:

• Reducing the cap on burnable acres statewide from 250,000 to 165,000.
• A five-year phaseout of burning, but allowing growers to continue to burn stacks if they can't sell the straw. "We've proved less than 10 percent of the smoke is generated from stack-burning because it's a much hotter fire," he said.
• Increasing fees that growers pay per acre that they burn, with the money generated for research on straw use and alternative ways to sanitize fields.
• The five-year phaseout by law "proving we have workable alternatives in place, certified by the Department of Agriculture and the Oregon Environmental Council."

Powell said an immediate ban would surely not pass. "If it did, it would shut down the industry as we know it because no known way exists to even give the straw away," he said.

He said the prospects of negotiating a limited burning are good.

"There are two major questions," he said. "One, how many acres will be allowed to be open burned? Two—does this really worry the farmers—will there be a definite cutoff date in the future?"

Open-field burning has been an issue in Oregon for nearly 20 years.

The state legislature in 1971 banned open-field burning effective in 1975; but the 1975 legislature set a four-year phaseout. Then the 1979 legislature stopped the phaseout at 250,000 acres statewide.

Since then the seed growers have portioned out the 250,000 acres among their total 345,000 acres.

The legislative battle is "going to be difficult," said the Oregon Fire Fescue Commission's Nelson.

"We just have to work through the process... Our opponents want to bring the issue up on the 1990 legislative ballot... But the seed growers just released a poll that indicates that 65 percent of the Oregonians polled oppose a ban on field burning. Another 31 percent supports the ban and 4 percent are undecided, the poll found.
Columbus course boom

Financing varies from private moneys to municipal bonds in Ohio golf course explosion

BY JEFF GROEZINGER

Boom (n) — What happens when a large demand for a product is met with an insuffi-
cient supply, leading a variety of developers, government officials and private individuals
to spend large amounts of money to buy and develop large plots of land in order to satisfy a
claming public.

While this definition didn't quite come out of Mr. Webster's Dictionary, had the esteemed compiler of words and meanings been in Columbus, Ohio, for the past two years, he may well have seen fit to include this description of "boom" in his book. For it has been over the past two years that Columbus has been the center of a golf course development boom that few areas outside the Sunbelt and the Southwest have ever seen.

No less than nine golf courses (and an additional nine holes at an existing course) either have been, are undergoing construction, designed or planned in the last 24 months within a 20-mile radius of Ohio's capital city. The sheer number of courses in notable enough, but adding to the surprising number is the equally surprising variety of development plans bringing these dreams to fruition.

Looking back

Why Columbus? Most notable is the fact that even though Columbus' population has increased from 1 million to 1.5 million over the past 18 years (according to the Chamber of Commerce), not one golf course has been built within the Greater Columbus area. The subject of a recent Newsweek article picking 10 of America's best cities to live in, Columbus brings a blend of good-paying service-industry employment, fairly low crime rates and rapid population expansion.

Meanwhile, the country's population is aging, and more and more, the older population is finding the less rigorous demands of golf are a pleasant alternative to running up and down a basketball court.

Demand for golf, both public and private, is growing by sheer increases in population as well as in percentage of population.

Thus it was just a matter of time before public golf course operators found they were able to increase fees without dramatically affecting a steadily increasing play. Public courses of even marginal quality of design and service have been experiencing a strong demand from area golfers since there are simply not enough facilities to play.

Courses of higher quality are finding one-to-two hour waits virtually every week day. Private clubs that once offered low or no initiation fees have now found that a $5,000 or $10,000 fee hasn't shortened a waiting list ranging from eight to 15 years.

Residential developments

Area developers are using many approaches to exploit this pent-up demand, but these methods primarily fall into one of three categories.

Two developers, Planned Communities and the Day Brothers, are following the lead of developers around the county and using top-quality private country clubs as an attraction to their residential developments.

Planned Communities' project, the Lakes Club, is well into its development as nine holes are ready for teeing off, the clubhouse foundation has been laid, and the second nine holes are under construction.

The Highland Lakes project represents the highly respected, Columbus-based developing company's first effort at combining residences (Highland Lakes) and golf courses (the Lakes Club) into one community. The company's recent residential projects have been in the upscale market, but having a premier country club as an attraction to prospective residents represents a new marketing tactic.

Former PGA Tour player and Columbus native Ed Seede was enlisted to design a course that will challenge the better players with its design rather than length. The less-than-brutal yardage is also meant to attract the average player who Planned Communities feels will be the typical member and resident.

The entire development is somewhat unusual in that two adjacent public golf courses and some surrounding property totaling 664 acres (owned by one individual) will become the site of the golf course and very upscale housing. The first phase of the development will offer approximately 65 lots with prices ranging from a low of $80,000 to in excess of $250,000.

The new course will retain none of the original holes, and Planned Communities is finding the entire project with no public debt.

The Day Brothers' development is highlighted by Wedgewood Country Club and is located in Powell, a Northwest Columbus suburb and a five-minute drive from Muirfield Village. Another successful local developer, the company has engaged Robert Trent Jones Jr. to convert the rolling and tree-studded property into a country club capable of attracting real-estate buyers and upscale golfers who are tired of being on waiting lists at clubs that might be inferior in design and amenities.

Though not as far along in construction as Highland Lakes, the Wedgewood project has been designed and plotted, preliminary construction is underway, and residential lots are being offered for sale.

The Wedgewood development will be similar to Highland Lakes in that both communities will feature luxury, single-family residences interwoven with a golf course that will appeal to almost anyone. And both are capitalizing on Columbus' explosive growth to the north, northwest and northeast.

Two other quite similar residential golf course developments are in the preliminary planning stages.

Awaiting all the various aspects related to putting an entire development together, is a championship golf course that will become the focal point of the Villages at Rocky Fork, being developed by The Limited CEO Les Wexner. The name most often mentioned as the course's designer is Columbus' Jack Nicklaus.

The Rocky Fork project will feature possibly the most exclusive and expensive residential development area, eclipsing even Muirfield Village with homes that will range from $300,000 to more than $1 million.

The last of these combination developments was the first one to be announced. Governmental regulations and reluctant neighbors have added many delays to the progress of the project known as Heron Lakes. Jim Fausto has been contracted to design the golf course on a 235-acre site near a major reservoir two miles east of Highland Lakes.

The development, a project of Floridian John Murphy, will feature more than 1,000 luxury single-family residences, but also many cluster homes, with price tags in the range of $100,000.

Differnt motivation

Another private-club being developed has a different motivating force behind its genes-
sis. The course is actually a product of a membership desiring a new location. The original Winding Hollow Country Club was a nine-hole course built in 1928.

In 1951, the club engaged Robert Trent Jones Sr. to redesign the original nine holes and build another nine. Almost 40 years have seen Columbus expand so much that the rolling course on the city's north side has been squeezed in by primarily low-income housing.

Yearning for a quieter setting, the club's members have sold the course to the city for $2 million.

The proceeds will be used to build a new, Arthur Hills-designed club near New Al-
bany, a suburb 10 miles east of Columbus.

The course has been designed, center lines of the fairways staked, and as soon as the weather breaks, construction will begin. Estimates call for the club to be opened in 1992, the 500th anniversary of a sailor named Christopher landing on the shores of a new world.

In return, the city will most likely assume operation of the venerable Winding Hollow layout in 1991 or 1992, depending on when the new course is completed. At that time, the city will begin operating what will surely be one of the country's finest municipal facilities.

A new municipal

Along with Winding Hollow, the city is developing another municipal course near the city's east suburb of Pickerington. To be known as Turnberry Golf Club, the course

Summary of Columbus' golf boom

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<td>Winding Hollow</td>
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<td>Bolton Field</td>
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<tr>
<td>Bent Tree</td>
<td>Denis Griffiths</td>
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will be the first new municipal course since Bolton Field Golf Course was built in 1971. Arthur Hills again is the architect of the course which will feature upscale amenities and (green fees) in relation to the other municipal courses in the area.

The final municipal project is the addition of nine holes to Bolton Field Golf Course on the city's far west side. According to Allan McKnight of the Parks and Recreation Department, all that needs to be accomplished is to open the clearances needed with the adjoining Bolton Field Airport.

"We're hoping we can get that all accomplished so that construction could begin as early as this fall," said McKnight. Though no architect has been contracted, preliminary discussions have been held with the Kidwell/Hurdzan firm of Columbus.

A microcosm
With the exception of the Winding Hollow situation, these courses exemplify most new course development in the country today. Typically, most private courses are part of a residential development where the course helps sell lots, and when the lots are sold, the members sustain the clubs with dues and assessments.

On the public side, some level of government, with its access to bond or tax money, finances public golf courses to benefit the area's citizens. The fact that the courses usually make money also enhances their image in city officials' eyes.

Unique developer
An unusual element in Columbus' golf boom is the addition of a third type of developer. This developer is capitalizing on the economics of the golf industry in central Ohio and is using private (or non-public) debt to build public golf courses.

Bill Parker was the first to exploit the undeveloped public market in Columbus. Parker, an experienced golf course builder and operator, already owned a fine public course in Cable, Ohio, about 45 miles west of Columbus. He bought 167 acres near Delaware, about 10 miles north of Columbus on which he built a course that was planned to fit in a niche between a high-quality public course and a country club.

As a result, Bent Tree Golf Club features bentgrass tees, fairways and greens, plenty of water and traps, and an enjoyable yet demanding layout.

Designed by Denis Griffiths, Bent Tree was opened last June, becoming the first public golf course to open in the area since Bolton Field. Early reviews of the course were complimentary and play has steadily increased.

Parker's idea is that a high-quality course can ask (and receive) a high price. As a result, Bent Tree's fees (which include mandatory car) were $35 in 1988 and are expected to go to $50 this year.

Helping finance the course's estimated $4 million cost was the sale of seven residential lots (five are still available) and 100 year memberships which entitle the holder to unlimited fees and cars for the period. These memberships started at $15,000 and about one-half were sold before the course was finished.

Another public course being built along the lines of Bent Tree is Shamrock Golf Club, located near Wedgewood Golf Club on the northwest side of Columbus. The Bay Brothers are again part of the developing team bringing a top-quality public golf course to Columbus.

Shamrock was designed by the Kidwell/Hurdzan firm, and construction has proceeded to the point that, given reasonable weather, the layout will open this summer. Since it was located on 194 acres, a premium opportunity was created.

Because of the planned golf course, the listed homes will once again be placed on accuracy rather than length. The higher quality design and amenities will also bring along a higher daily fee estimated to be $25 (typical fees in the area range from $9 to $12) and cars will be mandatory on the weekends.

The third privately developed, public golf course is again being designed by Kidwell/Hurdzan. Jim Groezinger, who has operated Minerva Lake Golf Course (a privately owned, public course) for 10 years is making the switch from operator to owner as he is developing a nine-hole course and driving range 8 miles north of Columbus.

Called Arrowhead Lakes Golf Club, the course will measure more than 3,200 yards and feature mounding and six lakes to provide all the challenges a golf-hungry public could desire.

When completed, it may be the finest nine-hole course in the area and perhaps go beyond the standpoint of building another course around this area.

Ohio's mild winter allowed the crew an opportunity to almost completely install the irrigation system and, given a cooperative spring, the course could be open for play by September.

Long-range plans for Arrowhead include the possible addition of another nine holes depending on land availability and suitability.

Columbus is truly a synopsis of a golf boom, fueled by a strong demand that shows no sign of abating. Private developers and government are coming to the foreground in an effort to satisfy an old marketing axiom with a slightly different twist: "Give the customer what he wants... a golf course!"

**NGF hot spots**

<table>
<thead>
<tr>
<th>Metropolitan Statistical Area</th>
<th>Estimated Number of Golfers</th>
<th>Total Golfers Per 18 Holes</th>
</tr>
</thead>
<tbody>
<tr>
<td>New York, N.Y.</td>
<td>758,113</td>
<td>9,245</td>
</tr>
<tr>
<td>Los Angeles-Long Beach, Calif.</td>
<td>817,099</td>
<td>7,886</td>
</tr>
<tr>
<td>San Francisco, Calif.</td>
<td>155,678</td>
<td>5,766</td>
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<tr>
<td>El Paso, Texas</td>
<td>44,401</td>
<td>5,224</td>
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<tr>
<td>Chicago, Ill.</td>
<td>736,598</td>
<td>5,189</td>
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<tr>
<td>San Diego, Calif.</td>
<td>136,515</td>
<td>4,947</td>
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<tr>
<td>Anaheim-Santa Ana, Calif.</td>
<td>214,029</td>
<td>4,653</td>
</tr>
<tr>
<td>Albuquerque, N.M.</td>
<td>59,658</td>
<td>4,419</td>
</tr>
<tr>
<td>Salt Lake City-Garden, Utah</td>
<td>143,195</td>
<td>4,295</td>
</tr>
<tr>
<td>Oakland, Calif.</td>
<td>191,606</td>
<td>4,211</td>
</tr>
<tr>
<td>Visalia-Tulare-Porterville, Calif.</td>
<td>28,517</td>
<td>4,074</td>
</tr>
<tr>
<td>Wichita, Kan.</td>
<td>59,921</td>
<td>3,995</td>
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<tr>
<td>Fresno, Calif.</td>
<td>57,699</td>
<td>3,902</td>
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<tr>
<td>Miami-Fla.</td>
<td>165,293</td>
<td>3,983</td>
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<tr>
<td>Seattle, Wash.</td>
<td>181,905</td>
<td>3,907</td>
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<tr>
<td>San Antonio, Texas</td>
<td>95,721</td>
<td>3,911</td>
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<tr>
<td>Milwaukee, Wis.</td>
<td>221,263</td>
<td>3,882</td>
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<tr>
<td>Detroit, Mich.</td>
<td>645,139</td>
<td>3,683</td>
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<tr>
<td>Sacramento, Calif.</td>
<td>128,262</td>
<td>3,529</td>
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<tr>
<td>Las Vegas, Nev.</td>
<td>54,824</td>
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<tr>
<td>Spokane, Wash.</td>
<td>36,984</td>
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<tr>
<td>Cleveland, Ohio</td>
<td>217,945</td>
<td>3,693</td>
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<tr>
<td>Madison, Wis.</td>
<td>54,495</td>
<td>3,633</td>
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<tr>
<td>Davenport-Rock Island-Moline, Iowa-IL</td>
<td>56,124</td>
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<tr>
<td>Oxnard-Ventura, Calif.</td>
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<tr>
<td>St. Louis, Mo-IL</td>
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<td>Baltimore, Md.</td>
<td>165,809</td>
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<tr>
<td>Houston, Texas</td>
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<tr>
<td>Provo-Orem, Utah</td>
<td>34,362</td>
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<tr>
<td>McAllen-Edinburg-Mission, Texas</td>
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<tr>
<td>Fayetteville, N.C.</td>
<td>26,849</td>
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<tr>
<td>Cedar Rapids, Iowa</td>
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<td>Stockton, Calif.</td>
<td>41,610</td>
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<tr>
<td>Portland, Ore.</td>
<td>134,857</td>
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<tr>
<td>Denver, Colo.</td>
<td>189,021</td>
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<tr>
<td>Green Bay, Wis.</td>
<td>29,531</td>
<td>3,281</td>
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<tr>
<td>Racine, Wis.</td>
<td>27,260</td>
<td>3,250</td>
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<tr>
<td>Minneapolis-St. Paul, Minn.-Wls.</td>
<td>314,293</td>
<td>3,235</td>
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<tr>
<td>Springfield, Ill.</td>
<td>24,135</td>
<td>3,218</td>
</tr>
<tr>
<td>Dallas, Texas</td>
<td>189,579</td>
<td>3,185</td>
</tr>
<tr>
<td>Boulder-LMontgmont, Colo.</td>
<td>24,257</td>
<td>3,177</td>
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<tr>
<td>Toledo, Ohio</td>
<td>72,300</td>
<td>3,077</td>
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<tr>
<td>Tacoma, Wash.</td>
<td>55,342</td>
<td>3,075</td>
</tr>
<tr>
<td>Corpus Christi, Texas</td>
<td>29,138</td>
<td>3,067</td>
</tr>
<tr>
<td>Manchester-Nashua, N.H.</td>
<td>32,101</td>
<td>3,057</td>
</tr>
<tr>
<td>New Haven-Waterbury-Meriden, Conn.</td>
<td>74,671</td>
<td>3,048</td>
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<tr>
<td>Salem, Ore.</td>
<td>28,229</td>
<td>2,973</td>
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<tr>
<td>Boston-Lawrence-Lowell-Brockton, Mass.</td>
<td>333,427</td>
<td>2,970</td>
</tr>
<tr>
<td>San Diego, Calif.</td>
<td>218,000</td>
<td>2,966</td>
</tr>
<tr>
<td>Bergen-Passaic, N.J.</td>
<td>91,484</td>
<td>2,950</td>
</tr>
</tbody>
</table>

TOTAL: 2,642

According to National Golf Foundation research, these are the 50 areas in the United States with the greatest opportunity for both public and private golf course development. NGF researchers first analyzed all 174 Metropolitan Statistical Areas within the United States, and each MSA was compared in terms of total number of golfers per 18 holes of golf. Researchers then factored in economic and other important variables within the MSAs to reach their final determinations. The asterisks denote those areas that are also among the top 25 in the country where MSAs are analyzed in terms of public golf course needs.

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Innovations make more color

BY MARK LESLIE

To flower or not to flower: the question is controversial if nothing else for golf course superintendents. It's been a good, cost-effective method of adding vibrant colors to large areas of rough for some regions of the country.

And Norm Poppe of Applewood Seed Co. in Arvada, Colo., whose company is producing a new carpet loaded with wildflowers, says, "The same type of感觉 good interest in wildflowers from golf course superintendents, but mostly for special, small areas. Yet there are warnings.

Lesco, Inc. Vice President for Research and Development Art Wick says, "Wildflowers are not for everyone. They are not for the guy who has money down and says, 'I want results tomorrow.'"

Dr. Jeffrey D. Brauer of Michigan State University in East Lansing, Texas, said of using wildflowers on a course: "The key phrase is 'in particular places.' We as architects like unusual high-contrast stuff but you go and play with the typical player and he likes the more traditional things. They like to hit the golf ball and have it land in normal turf and they don't care for the wild stuff. They don't mind if they can hit in it, that's what it boils down to."

Tony Halterlein, curator of horticulture for American Horticulture Society in Virginia, said wildflower use is "a new area in the last six or seven years. We don't even have any specialist in that area on the staff here."

Wick of the Ohio-based Lesco said interest in wildflowers among golf course superintendents peaked two to three years ago. But Marie Pompei of the New Jersey-headquartered Lofts Seed Inc. said, "Yes, interest peaked out West and in the Midwest awhile ago, but in the East they're hot."

Although a couple of severe storms hurt some of the wildflower growth this winter, she is happy with her three-year experiment and promises to plant on other areas of the Ditto course as well as Arlington's second municipal course. Kupala stressed that wildflowers must be seeded while the turfgrasses are dormant, so that they can germinate and grow during the winter and get a head start on the grass come spring.

"Then, while the flowers are blooming in the spring, the grass is just starting to grow up," she said. "And for the most part your flowers are going to thrive and grow before your grass really gets aggressive and thick. So by the time your flowers are starting to dry out, your grass is coming in and you have an ice carpet of grass." You just mow the wildflowers. Wildseed's dry-pak variety "is the native varieties must go to seed to get a crop the next year" and they look pretty scruffy when they go to seed."

His machine is unique, Thomas said, because it will plant wildflowers through the existing turf. "Now they can plant a mixture of wildflowers in front of a putting green, putting, blooming color and seed at the same time, which is really nice," he said. "And it's really a good method to control weeds."

Others say the Truxx, Tye and Belfco drill seeders can also be modified with different calibration boxes to plant wildflowers.

Thomas said that if a superintendent wants color for a longer time, this may be the answer. The J-Thom 42 can plant up to nine varieties that will bloom over a period of three to four months.

"Most golf schools are starting from October to December so the flowers will bloom from starting in early spring, say from early March to June," he said. "In the North you would plant in the spring and get color later in the summer and fall."

The J-Thom 42 can be bought for $500 to Wildseed can contract to do the planting.

Thomas gave as an example of the cost: If you decide on coreopsis (650 to seed an acre) and coreopsis (600 to $500 per acre). Add more varieties and the cost goes up as $1200 per acre for the African daisy.

Dave Oatil, a USGA Green Section agronomist in the Mid-Atlantic Region, said he had never seen such a large planting and would have to reserve judgment on the operation.

The wildflowers, if they're tall enough to grow quicker than the grass (when the warm weather arrives), they're going to make a splash of color for the first year," Oatil said. "But then you are going to have to do it again the next year. Hopefully you'll get good enough germination with the wildflowers that they will be more apparent than the grass...."

"It's hard to say, there are so many variables," he adds.

Pompei said the South, where the J-Thom 42 has been used, does not have the problems of the East where "turf grass grows so hot it's hard to keep the weeds down and keep the area in wildflowers."

In the East, Pompei recommends eliminating the cover on the area and preparing the site just as you would a new grass seeding, minus the fertilizing or liming.

Wildseed's Thomas, who invented the J-Thom 42, said non-native wildflowers are being used more than native varieties because "non-natives are less expensive, give a great deal of color, and can be trimmed and mowed after they bloom" and the annuals among the native varieties must go to seed to get a crop the next year and "they look pretty scruffy when they go to seed."

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achievable for golf courses

Even if successful on the large scale, the J-Thom 42—or the Truax drill seeder—is not for those areas superintendent who are looking to get a lot of color for low-maintenance areas, out-of-play areas, hard-to-maintain slopes, maintenance areas, and in the roughs.

Dr. Wick, superintendent of the National Wildflower Research Center in Austin, Texas, advised, "Be aware that wherever you are there are natural open areas, and in the roughs."

Most wildflower seed companies are putting together specialty mixes—from concentrating on natives of particular areas to mixes of cut flowers, mall perennials, annuals, shade, and full sun.

- "If you are in a lower-rainfall area I'd say your chances are pretty good to prepare a good seed bed, water it and moderately fertilize it to get it established. If you've east of that (rainfall) line I'd say, Are you willing to kill the existing vegetation and the possible spot-weed killer stuff that comes up after you've seeded in that dead vegetation?

"Be prepared to reseed in year number two if your catch in the first year isn't to the degree of density you want. Many supers say that's too much of a hassle.

- "Get a sample kit of what the seed company has available and plant simple square rows15 feet long of the individual varieties. Then observe what varieties do well and what ones don't.

From that information the company can prepare a custom blend for you.

Dr. Northington said most wildflower seed companies are putting together specialty mixes—from concentrating on natives of particular areas to mixes of cut flowers, mall perennials, annuals, shade, and full sun.

- "There's all kinds of combinations of species that are supposed to work in certain situations," he said.

- "Many golf course superintendents may not want to wait the six or eight months it takes to establish plants.

Some may decide the color is worth the wait. Many indeed dig deep and pay for instant beautification.

Still others may stick with grass and greens and need the carpet effect."

"We can't forget it's out there to be a golf course. And most golfers are going to think of a golf course in terms of memorability and playability," says architect Brauer.

"Most golfers count up the number of balls they lose at the end of a round, and you too can steal their balls."
BY VERN PUTNEY

Slow play crucial to golfers, owners

TV and pros have led many to painstaking sluggardness

Greg Norman and Mark O'Meara last December at Pebble Beach, Calif., made a great run—or brisk walk—at the unofficial time record for 18 holes on the PGA Tour. However, their mark must be accompanied by an asterisk. They failed the essential element in any golf speed test. Playing faster should mean playing better. Their balloned scores of 79 each reflected inability to adjust to abrupt change.

In mid-April Norman led the PGA Tour with a 68.23 average, while O'Meara was in sixth place at 70.97.

Norman and O'Meara were at the rear of last-day qualifiers, so, as a lark, they set out into the sunrise to provide a fine example in a setting notorious for slow play. They sliced five minutes from the 1:29 clocking of tour pros Bill Mathis and Gary McCord, who both shot par in 1976 at the Heritage Classic's Harbour Town Golf Links in Hilton Head Island, S.C.

But Commissioner Deane Beman reprimanded Norman and O'Meara and threatened a fine for making a travesty of the game. The scores refuted that charge.

Since the oh-so-deliberate days of Ralph Gollihugh a half-century ago, to the current snail's pace of most Tour players, completing the course in a reasonable hour has been a problem.

Management has even higher stakes in this course plague. It's money—frequently the difference between club prosperity and insolvency.

The simple economic fact is that the more rounds played, the more revenue. The more golf carts turned around for afternoon play, the more green fees, the healthier a club's financial status.

And fast play-play is provable.

Contrast Norman and O'Meara's time and scores with a couple of average amateurs from Maine who in August 1983 set out to show the Maine Open field how to move— and score.

Eight handicapper Bill Sears and I, a six-handicapper, set goals of an hour and a half for 18 holes, and fewer strokes than combined handicaps—72 times for 144, plus 4 for 158.

Playing from tony tees, Sears carded 78. I stumbled in the last two holes for bogeys and a 79. Sears wheeled his own bag while I had the luxury of caddie. Total tally was 157. It was as easy as 1:23, the elapsed time.

The message of the next-day story sank in. The field finished well before darkness. Sadly, soon came return of the links laggard.

Faces are new, but the pace is familiar—tortoise slow.

Norman and O'Meara may have had a clearer track than the Riverside pair, but they had to contend with more than just 500 yards of extra territory. The four toughest holes on the 1988 PGA Tour, and seven of the most difficult 17, were at Pebble Beach's three layouts.

Still, too much time is wasted, despite extreme efforts by PGA Tour officials. Tournament polices are ruled like no others, players are hurried and fined. They must play by the (watched) clock or else.

However, the one thing the Tour has not done is invoke stroke penalties. That's the most significant imposition and the one that would really hurt. It's under consideration.

Is there any solution to this game-threatening situation?

From a background as caddie, caddiemaster, caddie school director, state tournament director, assistant professional, ranger, starter and for 35 years golf chronicler and observer, I offer some suggestions.

Foremost is: Discover the joy of fast play. Golf should be a pleasant and exhilarating experience. It is much more fun when breezing along.

Cushman's game "deteriorated" to around par golf in the 174-hole cruise. Cushman's scoring secret was tied to turning his back on fashionable television practices. These include: painstaking pacing of the fairways for yardage purposes and meticulous greens survey in a mysterious ritual known as "plumb bobbing." This practice is particularly puzzling to the old golf guard.

Tour pros coming to grips with strange courses have some justification for endless staking of terrain. Members and course regulars don't. They've hit the same club for years. They're as comfortable with putting lines and greens swings.

As tournament director for the Maine Seniors' Golf Association in 1987, Putney had access to player ages. The Seniors' field of 308 at the demanding Portland Country Club course averaged 66.7 in age, approximately 40 years older per man than the Maine Open field of 216.

Both began play at 7:45 a.m. Seniors finished at 6 p.m. The final Open foursome grouped home at 8:30 p.m. despite a generous sprinkling of time-saddling caddies.

How come such a disparity? The Seniors played a somewhat shorter course and had two less foursomes, but 2 1/2 hours? Do the figures show out-of-shape young men or in-shape seniors unfettered by modern methods?

The answer is simple. The young tigers are saddled by what they perceive to be the way the game is played. They were raised in the TV era.

As a course-cluttering curse, which in the 1987 Maine Open featured an hour's delay between nines, I volunteered some ideas to minimize, if not stamp out, time-consuming practices:

• Plumb bobbing—Only the first to putt permitted this flagrant time-waster.

• Stalking the green—Same setup.

• Pacing—A no-no, either fairway to green and vice versa.

• Give tournament contestants course map, listing distances to the front of the green from recognizable fairways.

Maine Open officials answer to such revolutionary recommendations was predictable. The 1988 field was cut back to 180. It made for a tidy tournament. So what if the purse was $6,000 less than it might have been through 60 more entry fees? Factually, most competitors return year after year because of the pleasant tournament, area activities and hospitality. Money seems secondary.

Unless there is a return to the "Miss 'Em Quick" practice of the late Ernest W. Newnham, veteran Portland, Maine, CC pro and holder of six Maine Open titles, five in succession, the game will be forever plagued by links lizards.

In his post-Maine Super Seniors' champion Newham took one last desperation step as personal protest to the Maine Open slowdown. He packed it in.

This is a shame. Another generation was deprived of marveling as a slight gentle man steered the tee and in almost the same motion split the fairway with a crisp drive. He would be off the tee and in full stride before his tee hit the ground.

MAY 1989
May
21-22 — California GCSA meeting at Pala Mesa Resort.
22-25 — The American Forage and Grassland Conference will be held on the University of Guelph campus in Guelph, Ontario, Canada. Additional information is available from Dr. E. Ann Clark of the university at 519-824-4120, Ext. 2508.
28-31 — FIS (International Federation of Seedsmen) Congress will be held at the Ramada Renaissance Hotel in Jerusalem, Israel. Register with Arlinda Dorsett, Secretary to International Marketing Director, American Seed Trade Association, 1030 15th St., N.W., Suite 964, Washington, D.C. 20005.

June
1-2 — ASSINSSEL (International Association of Plant Breeders for the Protection of Varieties) Congress at the Ramada Renaissance Hotel in Jerusalem, Israel. Register with Arlinda Dorsett, Secretary to International Marketing Director, American Seed Trade Association, 1030 15th St., N.W., Suite 964, Washington, D.C. 20005.
12-15 — Australian Water Technology Exhibition, Sydney, Australia. For more information contact International Conferences and Exhibitions, Ltd., 29 Deer St., London W1R 9AA, United Kingdom.
25-29 — American Seed Trade Association meeting, including election of officers, at J.W. Marriott Hotel in Washington, D.C. Contact ASTA at Suite 964, Executive Building, 1030 15th St., N.W., Washington, D.C. 20005; 202-223-4080.

July
30-Aug. 2 — 44th annual meeting of the Soil and Water Conservation Society, Edmonton, Alberta, Canada. For information telephone 515-289-2331.

September

October
4-6 — Golf Course Europe, an international exhibition and conference on the design, construction and maintenance of golf courses and on golf club management, at Rhein/Main Halls, Wiesbaden, West Germany. For more information contact Allard J. Hoogland at Expoconsult, P.O. Box 200, 3600 AE Maarssen, Holland; telephone 03465-7377.

November
4 — Lawn Seed Conference at Crown Center Hotel in Kansas City, Mo. For more information contact the American Seed Trade Association, 1030 15th St., N.W., Suite 964, Washington, D.C. 20005.
ON THE MOVE

Stonecreek reports appointments

Stonecreek, The Golf Club, in Phoenix, Ariz., has announced appointment of LPGA Tour professional Heather Farr as a member of its Tour staff and Craig Harrison as an instructor. Harrison, 29, will teach alongside Director of Instruction Mike LaBauve, Sandy LaBauve and Hank Gardner. A St. Louis, Mo., native, Harrison has more than seven years of professional teaching experience.

Farr, whose home course is Stonecreek, will represent the Arthur Hills-designed course in the 26 LPGA Tour events she will enter this year.

Olson picked to head E-Z-GO

Ralph J. Olson, who served as president of The Interlake Companies, Inc.’s Materials Handling Division since 1984, has been appointed president of Textron’s E-Z-GO golf car division.

Textron Chairman, President and Chief Executive Officer B.F. Dolan said Olson succeeds John R. Dwyer Jr., interim president who becomes chairman of E-Z-GO.

Prior to Interlake, an Oak Brook, Ill., firm specializing in material handling automation and engineered materials, Olson was president and general manager of the Metal Container Division of Sherwin-Williams Corp. and vice president of Diversified Containers, Inc., a wholly owned subsidiary of PepsiCo Corp.

Earlier in his career, Olson held design and engineering positions with Crown Cork & Seal, Butterworth Manufacturing Co. and FMC Corp.

He received a bachelor’s degree in engineering from Pennsylvania State University.

E-Z-GO is based in Augusta, Ga., and is a leading producer of utility vehicles for sports and industry.

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7901 Fourth Street, Suite 311
St. Petersburg, FL 33702
(813) 576-7077

MAY 1989

Grosh Lebanon sales manager

Lebanon Total Turf Care of Lebanon, Pa., has promoted Paul Grosh to sales manager of the Southern and mid-Atlantic Sales Division.

Lebanon’s manager of marketing and sales, Paul Mengle, announced the promotion of Grosh and three sales representatives in turf and garden accounts—Mark A. McClure, Paul L. Olson and William Smith.

Grosh joined the company in October 1987 as a sales representative covering accounts through upper New York state. He will be responsible for market development, pricing, sales training, account assessment and assignment, and other duties in cooperation with the Company 20 manager.

Before joining Lebanon, Grosh held positions in golf course management, landscape management and design, and nursery management, and was branch manager for a major lawn-care firm in the Northeast.

He holds a bachelor’s degree in botany from Ohio Wesleyan University.

McClure will be responsible for sales and service of accounts throughout upper New York state, while Olson will handle the upper Midwest Great Lakes region and Smith the southeast Pennsylvania and central New Jersey region.

McClure previously was a branch manager for a chemical lawn applicator in Rochester, N.Y., and owned and managed a landscaping service.

Olson, previously an assistant store manager for a major turf-products manufacturer in Minnesota, holds a bachelor’s degree in horticultural science, and agricultural and applied economics from the University of Minnesota.

Smith worked for a New Jersey fertilizer company and for 10 years owned a landscaping business.
Toro inducts 'Partners'
The Toro Co.'s Irrigation Division has inducted 14 general line distributors into its Partner's Club, recognizing their outstanding customer service, participation in key industry organizations and active support of Toro products.

Inducted were Mark Agnew, Sprinkler Irrigation Specialists, Novato, Calif.; Bob Marsan, Mar- san Turf & Irrigation Supply, Inc., of San Dimas, Calif.

Also, John Morrow, Hyatt Sprinkler Supply of Naples, Fla.; John Ramey, Boston Irrigation Supply of Dedham, Mass.; Ed Santalone, Atlantic Irrigation Supply of Deer Park, N.Y.

Don Smith, Smith Pipe & Supply, Inc., of Newbury Park, Calif.; Ray York, Ewing Irrigation Products of Sun Leandro, Calif.; Clay- ton Arnold, Coastal Wholesale, Inc., of West Palm Beach, Fla.; Bob Barry, R.E. Barry Pump of Cran-
ston, R.I.; George Ecks, Swan Pump & Supply of Freehold, N.J.; Phil Lack, Pipe 'N Heads, Inc. of Dallas, Texas.

Barbara and Kelvin Nimmo, Central Pump & Irrigation of Palm Bay, Fla.; Tommy Thompson, Duke-Bowman Supply Co. of Mi-
ami, Fla.; and Bob Tiglio, Art Arms and Archie Humphries, Hydro-Scopc Products of San Diego, Calif.

Jacobsen honors distributors

Indiana Turf Equipment Co., Indianapolis, recently received the prestigious Professor Jake Award. The highest service award given by Jacobsen Division of Telextron, Racine, Wis., it is presented for outstanding performance and service support of Jacobsen professional turf care equipment.

Mike Hannigan, Sawtelle Brothers, Inc., Lawrence, Mass., received the Pacesetter Award, for outstanding new account sales, sale of new products and selling the complete Jacobsen line.

Two members of Jacobsen's Golden Reel Club received Outstanding Member awards for sales significantly above set goals.

Debra Turf and Industrial Equipment Co., Fort Lauderdale, Fla., and Porter Brothers, Inc., Shelby, N. C., as former six-time winners of Jacobsen's Distributor of the Year awards become Golden Reel Club members.


Irrometer buys rights to Watermark

Manufacturing and marketing rights to the Watermark soil moisture sensor from G.F. Larson Co. have been acquired by Irrometer Co. Inc. of Riverside, Calif.

Irrometer Co. President Bill Pogue said, "The Watermark gives us a proven, patented soil moisture sensor which is effective over a much broader soil moisture range than our tensiometer.

Irrometer has been manufacturing soil moisture indicators since 1951.
NEW LITERATURE

From scenery to grasses, book chronicles courses

Vermont, New Hampshire courses detailed

BY VERN PUTNEY

Bob Labbance and David Cornell mainly are in the food service business. However, to serve up in short order for keen playing appetites far-flung golf courses in Vermont and New Hampshire, they undertook Cook's Tours that consumed eight summers of Monday strolls. The fruit of their two-state wander-athon odyssey is detailed in two books.


It is of little use for the course superintendent to groom a course beautifully, only to have the starved-for-action playing public drive aimlessly around the countryside trying to find links nestled in scenic, hideaway spots.

That was precisely the problem Vermont residents Labbance and Cornell encountered when in 1980 they renewed their college ties (Bates College in Lewiston, Maine, Class of '74) and hit upon golf as their recreational link.

Tremendous void

They found guides on almost every social or sporting activity in the Green Mountain State. Golf courses, however, were conspicuously absent. Six years, 7,500 miles of travel and 54 courses later, Vermont courses and locations had been catalogued in painstaking detail. The pair plunged into New Hampshire the next summer and, at 3:30 p.m. Monday, Sept. 26, 1988, at Amherst Country Club, completed their 72nd public golf course round -- and blanketed their second state.

Total golf holes for the two states was more than 1,700. "Two Down and One To Go" was their original travel battle cry, "A四大 Down and One To Go". Meanwhile, both must give priority to the workaday world. Labbance manages the food and beverage departments for Vermont Law School. Cornell, after culinary school in Paris and years of work in high-priced (and high pressure) restaurants, is the head chef at Dartmouth College's Faculty Club.

Even more than appeal to Vermont palates to whom they cater has been their sparkling service to the golf industry in two states. Instead of frustrating turns and twists and frequent tossing in of travel towels, golfers armed with these informative books can make a bee line for the first tee.

"It's been worth it, they say, to have endured in one day 100-degreec heat, violent thunderstorms and ravenous mosquitoes.

Offsetting traffic jams and driving around in circles looking for courses hidden in trailer parks or buried in residential neighborhoods have been moments of unsurpassed spectacular scenery.

Stirring settings in New Hampshire surely include The Balsams Grand Resort in the White Mountains and Mount Washington. Among the grand views are Waukewan, Jackson Brook Golf Club.

In Barre, Sugarbush and Equinox country clubs are among Vermont scenic standouts. Venturing from Vermont into the Granite State, Labbance and Cornell cite discovery of architectural gems from course designers of the past.

New Hampshire native Ralph Martin Barton's nine-hole Lisbon Village Golf Club may look flat and boring from the road. However, it is challenging, scenic, well designed and exciting to play. Whip-Whoop-Will CC in Hudson is a nine-hole layout for which Manny Francis rates a salute. Frankie develops in his Vesper Velvet at nearby Vesper CC, Tyngsboro, Mass.

The fine-bladed German bentgrass suitable to mid-New England forms a luxurious carpet that puts true and fast, say Labbance and Cornell.

CC in Walpole is an excellent monument to Wayne Stiles and John Van Kleeck. This team from the 1930s blended esprit with enjoyable golfing.

Pine Meadow in New Hampton is a reminder of another era, when greens weren't green. Play is on oiled, hard-packed sand that looks like wet clay and puts like polished marble.

Grueling schedule

Labbance and Cornell walked every Vermont course and never took a golf car, even when playing 36 holes three days in a row. There was weighty precedence to curtail in New Hampshire because of photographic and recording equipment which had become as much a part of their round as golf clubs.

An ordinary day would begin at 7 in the morning and end at mid-evening. Both also write for The Valley News, a Vermont Law School. Cornell, after culinary school in Paris and years of work in high-priced (and high pressure) restaurants, is the head chef at Dartmouth College's Faculty Club.

An extraordinary trip, however, was their whirlwind tour. "I think the States are best captured in the series of portraits we chose to do," Labbance said. "We went with our cameras and tape recorders and tossed in as much history and entertainment as we could."

Indeed, Labbance and Cornell hit on their college ties (Bates College in Lewiston, Maine, Class of '74) and hit upon golf as their recreational link.

A 24-page manual on aeration and overseeding for lawn maintenance professionals is available from the Cushman Division of Outboard Marine Corp. — the first in a series of educational publications the company plans for the lawn-care industry. Titled "The Dawn of a New Age in Lawn Care," the publication provides a wealth of reference information. It covers topics from the procedures and benefits of precision core aeration to grass selections and techniques for overseeding, lawn renovation and how to profitably price and market lawn care and lawn renovation services. Methodology used by lawn-care experts in various parts of the country is included.

The Crop Science Society of America has published "Seed Moisture" in which 13 international experts explore the facets of biological water in general, and seed moisture in particular. Seed moisture plays a critical role in all aspects of seed science, technology and commercial trade. The underlying physiological aspects are addressed in terms of membrane systems, physiological reaction in seeds and seed inhibition.

The manual also covers the newest Ryan equipment available for aeration and overseeding, along with an explanation of the research and design ideas that led to the development of this new equipment. Robert C. Brophy, manager of lawn-care product sales for Cushman, said, "The educational aspect of meeting today's demands for supplementary lawn-care services is important ... and today's equipment must be more efficient and the people who operate it must be more knowledgeable."

Photo by Stephanie Wolff/Valley News

Bob Labbance, left, and David Cornell ready for yet another round of golf in their whirlwind tour. The Lewis Line of golf course accessories is featured in the 1989 catalog of American Eagle Golf Products. The new American Eagle features Lewis low are 3/8 inch in diameter for extended life. Contact American Eagle Golf Products, Inc., 200 Main St., P.O. Box 396, Woodbury, Ga. 30293. 404-553-2061. Circle No. 298

CSSA explores seed moisture

American Eagle Golf | Office of the President

The Manual of Golf Maintenance and Development in the Seed Industry was published by the Crop Science Society of America. In this manual, 13 international experts explore the facets of biological water in general, and seed moisture in particular. Seed moisture plays a critical role in all aspects of seed science, technology and commercial trade. The physiological aspects are addressed in terms of membrane systems, physiological reaction in seeds and seed inhibition.
Cushman manufacturing core harvester

The new Cushman Core Harvester will pick up aeration cores mechanically from golf course greens.

The Harvester mounts on a 3-wheel or 4-wheel Cushman Turf-Truckster vehicle equipped with a hydraulic system and short box or flatbed with sides and tailgate.

The vehicle must have an auxiliary gear box ratio of 3.2:1, but older Turf-Truckster models may be converted to the higher ratio.

The Harvester sweeps up cores from the turf surface with two 45-inch steel blades, set at a 60-degree angle. The soil cores are "funneled" to the center, carried up a chain elevator and dumped onto an 8-inch rubber belt cross conveyor, which dumps them into the vehicle's box.

When the box is full, the operator shuts off the Harvester with a simple "push-pull" hydraulic control, raises the core-gathering blades with an over-center hand lever, and drives the load of cores to the dump site.

The core-gathering blades cover a 55-inch-wide swath. On flat courses, the operator can make passes back and forth across the green, raising the blades to turn. If the green has sloped sides, the core-gathering blades can be offset to right or left so the operator can pick up cores with a circular driving pattern.

Contact the Sales Department, OMC Lincoln, P. O. Box 82409, Lincoln, Neb. 68501 (800) 228-4444. Circle No 232

Greensmaster cut is uniform

Because of its unique 11-blade design, the Toro Co.'s new walk greensmower known as the Greensmaster 1000 is said to combine superior grass-catching capability and more uniform quality of cut.

The smaller clip — 1.6 inch — makes for a smooth green. A new "loop" handle design creates maximum operator comfort and keeps necessary weight on the front of the mower, allowing more even tracking across the green.

Contact The Toro Co., Commercial Products Division, 8111 Lyndale Avenue South, Minneapolis, Minn. 55420. Circle No 233

Nu-Mulch restores faded color

A new spray-on product that restores color to old, faded mulch is available from Lesco, Inc.

One application of Nu-Mulch keeps old mulch looking fresh and new for at least two months.

This new colorant is environmentally safe, inert and non-toxic to plants.

Formulated as a concentrate to be mixed with water, Nu-Mulch is spray-applied with either a hand-held backpack or larger-gallonage sprayer.

One gallon will spray 150 to 300 square feet of mulch.

Contact Sally M. Lee, Lesco, Inc., 20955 Lake Road, Rocky River, Ohio 44116 (216) 333-9250. Circle No 252

BEFORE YOU BUY JUST ANY BENTGRASS, GO BY THE BOOK.

Phone 1-800-547-0255 today for your complimentary copy of the Penn Pals catalogue. You'll see why Penncross, Penneagle, PennLinks and Pennway blend set the standard for bentgrass on golf courses.
Greens Plugger is a self-propelled aerator

The Classen Model 455 Greens Plugger is a new self-propelled aerator designed especially for golf greens. According to Larry Classen, firm marketing director, the unique design provides durable performance with electric lift to eliminate possible greens damage because of leaky hydraulic connections. Classen's Model 455 Greens Plugger is a new self-propelled aerator designed especially for golf greens. The Greens Plugger has a 24-inch operating width and a capacity of 14,000 square feet per hour with standard 2 3/8-by-2-inch patterns at 3-inch depth. Powered by an 8-horsepower, four-cycle Honda overhead valve engine, it also features sealed roller, bronze and ball bearings for low maintenance and trouble-free operation.


Alarm system adapted for golf courses

An innovative Golf PROtector system developed by Federal Signal offers wide area warning and communications coverage that can be adapted to any golf course. A key feature is an omnidirectional siren with both alarm and public address capabilities. It provides a way of notifying everyone on the course of urgent, life-threatening situations such as lightning, tornadoes and other weather dangers, and environmental hazards, including pollution, flood waters and extreme temperatures. It also serves for such needs as alert to efficient irrigation, chemical application or other maintenance operations; shotgun tournament starts and special announcements.

The system incorporates emergency stations that allows golfers to react fast in course emergencies and communicate to the clubhouse or other control center locations.

Help can be summoned immediately in the event of medical emergencies.

Contact Federal Signal Corp., 2645 Federal Signal Drive, University Park, Ill. 60466; (800-548-7229). Circle No 245

Turftech designed for soil structure

Soil Technologies Corp. of Fairfield, Iowa, has released Turftech, a biological application designed to increase naturally soil aggregation and improve soil structure. Turftech is composed of soilborne, single-celled plants packaged as a wettable powder. When sprayed into the soil, it produces unmanipulated plant residues (bio-polymers) beneficial to the soil without interfering with grass growth.

One of these residues is polysaccharide, a complex sugar. The sugars are capable of bonding individual soil particles to form a soil aggregate.

Increasing soil aggregation creates additional pore space, allowing air and water to move into the soil more easily. By increasing pore space, Turftech helps compacted soils to drain. Grass is healthier and less prone to disease.

Contact Soil Technologies Corp., P.O. Box 1415, Fairfield, Iowa 52556. (515) 472-3963. Circle No 266
New perennial ryegrasses marketed

Saturn and Omega II are among perennial ryegrasses recently introduced by Performance Seeds.
Saturn reportedly was ranked first in overall quality among 65 varieties tested in USDA's National Perennial Ryegrass Test at 22 locations across the United States and in British Columbia.
Saturn is said to be a natural for winter overseeding of golf course tees, greens and fairways in areas where warm-season grasses go dormant for several months.

An upright, dense growth perennial ryegrass, Saturn is said to provide a finer, more attractive putting green, with a moderately low-growing habit and greener good looks.

Contact Performance Seeds, Garfield Williamson, Inc., Fairfield, N.J. 07006; (201) 882-7755. Circle No 253

Putting hole color renewed

Hole-In-White offers a fast, efficient method of coloring the inside of the putting hole.
A steel device is positioned over a freshly cut hole and the can of turf whiteners slides into position on the tool gimbal.
The spray nozzle is activated by pressing down on the can and turning it uniformly color the hole.
Advantages include a more visible target, play speedup and less flagstick use.
Contact Hole-In-White, Amity Station, P. O. Box 3839, Woodbridge, Conn. 06525; (203) 393-3909. Circle No 248

Ransomes has robotic welder

A robotic welder trade-named the Multistation Weld Cell is the latest product of Ransomes Inc.
The welder is said to provide repetitive welds with unmatched consistency.
Contact Mark Forre, Ransomes, Inc., Johnson Creek, Wis. 53038; (414) 699-2000. Circle No 256

Jacobsen introduces new mowers

Jacobsen has introduced several new mowers.
Its HM-11 mower has seven hydraulically driven reels. Suitable for golf courses, parks and other large areas, it features out-front mowing and a 15-foot cutting width.
Front and rear wheels are steered through turns to eliminate streaking and marking on fine turf. Reels have bi-directional pivoting, to follow ground contours closely.
Reels are held by a patented hold-down system to prevent bouncing and skipping in high speed mowing.
The HM-11 4WD five-gang mower features four-wheel drive for improved traction, a convenient electro-hydraulic reel lift control for easier cross-cutting, and state-of-the-art electronic instrumentation that informs the operator of critical machine functions.
The HM-11 has an 11-foot cutting width.
The LF-100 out-front five-gang reel mower may be ordered with on-demand four-wheel drive, for fairways with steep hills.
It cuts a 100-inch swath at speeds up to 5 mph. Of heavy-duty design, it has extremely low ground pressure for less soil compaction and healthier turf.
Full-floating reels follow ground contours closely, and pivots through turns to eliminate scalping of turf on the clean-up pass.
Contact Jacobsen Division of Textron Inc., 1721 Packard Ave., Racine, Wis. 53403; (414) 637-6711. Circle No 251

NEW! TORO “4.0”

Makes Network 8000 better than ever!

(And who else but TORO could offer you concatenation?!)

When TORO created the first fully automatic, ET-driven, computerized control system (Network 8000), it took irrigation control a giant step forward. Now, with perfection of the new “4.0” software package, Toro takes another step ahead of the rest, and you enjoy these four important new advantages:

1. Flow Control
The central schedules all irrigation in conformance with the user-specified order of watering, while maintaining sprinkler flow demand within the maximum efficiency range of the pump station, resulting in the lowest cost-per-gallon. Flow control is retained even if communications are “cut” or the central is “out,” because all of the flow control data is downloaded daily to the satellites.

2. Concatenation
Satellite programs are “cut” or the central is “out,” because all of the flow control
data is downloaded daily to the satellites.

This feature provides an additional method for programming stations at satellites. Irrigation programs continue as before but now you have the flexibility to program groups of these same satellite stations in a multi-manual format, for such non-irrigation purposes as removing frost or cooling the turf. With this feature, you can assign any station at a satellite to a sequence group (maximum of 6 to a group), and there are enough sequence groups to allow all stations to be assigned. The run time (common to all groups) may be set from 1 to 30 minutes. In cold climates, this lets you lengthen the playing day.

4. Remote Activation of Central System through Satellites
Up to 15 specified functions stored in the central may be initiated for the whole system from any one satellite on the golf course. You can cancel a program, call up rainholds, go into multi-manual — any or all of 15 such special situations, from any satellite, without returning to the central. It gives you quick-fix problem-solving capability from the field.

For Free information Circle No 148

MAY 1989 Golf Course News 27
What are Fine Fescues and why are they so important to turf managers? 

Our Fescue turfgrasses are part of most every park, golf course, industrial campus, athletic field, condominium commons and home lawn from the transition zone, Northward. But, many people are not aware of that. Perhaps we are the most overlooked turfgrass living things, there is give and take. Sure, our natural grass is just grass. And, as with all grass, there is give and take. Our natural air conditioner for turf users. Turns noxious gases into oxygen and is a natural  real worth noting.

Fine Fescues are low maintenance. Our varieties require less fertilizer and water than other species. That’s a big plus at today’s water, fertilizer and manpower prices.

Fine Fescue spacing is variable. A new riding aerator, the Ryan GA 30, has been introduced by OMC Lincoln. The GA 30 features variable core spacing from 2.5 to 1.0 inches to 2.5 by 5.0 inches. The operator can vary the spacing with a hand lever while aerating. The throttle, choke and ignition switch also are hand-operated, while vehicle speed, brakes and lift control for the atering head are controlled by foot pedals. The GA 30 features hydrostatic drive. When aerating greens, the operator can lift the tines, turn around at transport speed, and be back on the green aerating in minimum time. Transport speed is 6 mph.

Write Ryan Sales Department, OMC Lincoln, P. O. Box 82409, Lincoln, Neb., 68509; (800) 228-4444. Circle No 235

Kubota hails new engine

Kubota believes that, in introducing the ACTV system engine OC60, it has achieved the ideal small diesel engine. The Kubota-developed "Advanced Cooling Three Vortex" (ACTV) system cools the swirl chamber with oil, and the cylinder with air. The combustion chamber is an LD.I. type with a swirl chamber system, Kubota's "Three Vortex Combustion System" (TVCS). The combination of ACTV and TVCS allows OC60 to minimize noise level. Furthermore, the viscosity of lubrication oil around the combustion chamber absorbs and controls noise to the level of water-cooled engines.

Contact Kubota, Ltd., 2-47, Shichiwahigashi-1-chome, Naniwa-ku, Osaka, Japan. Circle No 254

Low-angle nozzle fits all

Weather-matic announces availability of the 400 Designer Series and low-angle nozzles for commercial and residential spray applications.

The 400 Series fits all Weathermatic 30-Series Sprinkler Bodies (32P, 35P, 36P, 37P and the 96F shown adapted). The 100-Series low-angle shrub heads are compatible with 400-Series nozzles and may be used for ground cover and shrub applications.

Contact Weathermatic, Box 180205, Dallas, Texas 75218; (214) 278-6131. Circle No 251

Andersons testing greens fertilizers

The Andersons are testing Tee-Time homogeneous greens fertilizers. These fertilizers are tested in a 10,000 square foot area, with a 100-pound bag of 9-18-35 with 4,000 square feet. Both products are designed for use on closely mowed golf course greens. All slow-release nitrogen is derived from Nitroform, the premium source of water insoluble nitrogen.

The 400-10 and 9-18-35 are homogeneous products for quick wash down and uniformity of response. Contact the Andersons, Lawn Fertilizer Division, P. O. Box 119, Maumee, Ohio 43537; 1-800-225-ANDY (2639). Circle No 263

New Ryan aerator's spacing is variable

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Contact Weathermatic, Box 180205, Dallas, Texas 75218; (214) 278-6131. Circle No 251

Andersons testing greens fertilizers

The Andersons are testing Tee-Time homogeneous greens fertilizers 20-10 and 9-18-35. A 50-pound bag of 20-10 treats 10,000 square feet, while a 50-pound bag of 9-18-35 treats 8,000 square feet. Both products are designed for use on closely mowed golf course greens. All slow-release nitrogen is derived from Nitroform, the premium source of water insoluble nitrogen.

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Golfing public again grows

The number of golfers grew by more than 7 percent for the third straight year in 1988, according to a survey done for the National Golf Foundation. In the survey not yet published, the NGF also reports that 211 new golf courses were opened in 1988. The survey found that the number of golfers was played at least one round last year rose from 21.7 million to 23.4 million, up 7.8 percent. The number of frequent golfers — those who played 25 or more rounds — grew from 4.86 million to 5.62 million, up 15.6 percent. The rounds played, which translates into money at the courses, rose from 434 million in 1987 to 487 million in 1988, or a 12.2 percent jump. The study found that of the 2.21 million new golfers in 1988, 1.3 million were male and 910,000 were female. The number of facilities, which in 1987 grew by 110 to a total of 12,407, rose another 161 to 12,568 this year.

Rossi happy

Golf Course Builders of America Executive Director Don Rossi is supportive but cautious of the call to build 500 new courses over the next 10 years. "I think it's great," Rossi said from his Florida headquarters. "No question there's a demand with more and consistently better work." Rossi noted that environmental groups have targeted golf courses. "Everyone in the golf course design business is an environmentalist," said Jones, once the chairman of the California State Parks and Recreation Commission and the designer of more than 150 golf courses around the world. "But there are others who call themselves environmentalists, who can make a golf course sound like a toxic waste dump or a polluting factory. "We need those who love the game of golf to do it solidly and loudly proclaim that a golf course is an animal habitat. It is a bird sanctuary. It is open space. It is a greenbelt. It is that most important factor that lessens the density of new courses, if properly maintained, and that's a new real estate development." Rossi pointed to the oxygen-renewal process at work through trees on golf courses. "Every golf course is enjoyed by those who pass by as well as by those who play on the fairways," Jones said. Rossi called for the architects to join with developers who have the EPA (Environmental Protection Agency) to fight, they have the basis to fight money problems to fight, politics to fight. Rossi also noted that while there is a call for more public courses, 87 percent of the tournament players and the golf media "to proclaim emphatically that we need 5,000 more golf courses in the next 10 years. Because up to 70 percent of these courses should be public rather than private, we especially need them in the cities, suburbs and counties where a town council or board of supervisors holds sway," he said. "Instead of groundless and blind opposition, we should be finding encouragement and the anticipation of great opportunity." He added that "in addition to the obvious beauty and recreation it provides, golf is also a great training ground for honor and integrity, and never before have more young people picked up their golf clubs looking for places to play." Saying that a golf course has "at least a two- to three-year gestation period before it can be played," Jones said, "If we are arbitrarily slowed or stopped by the political process, and therefore unable to meet the rapidly evolving demand, I fear that the game of golf will be on a day return to the elitist and expensive sport it once was, and none of us can afford that ... not this organization, not the game itself, and certainly not the precious environment of our sprawling towns and suburbs." Jones, 49, is the son of Robert Trent Jones Sr., the only living member of the 13 golf course architects who founded the ASGCA in 1947. His father and brother, Rees, have previously served as presidents of ASGCA.

Jones

From page 1

demand with more and consistently better work.

Robert Trent Jones Jr.

But Poole, the point man for CCI President Jim Hinckley in developing golf facilities worldwide, said the Russians and Americans involved are serious about the project and its feasibility. "The Russians," Poole said, "are trying to emulate the West. The Americans also said this would help give stimulus to the area for them and would have some obvious advantage for our people as well as for others. And if we're going to do a conference center as part and parcel of our village development then this would give it some unique cache." The 7,000-acre collective is "anxious to expands its income sources, so is selling or leasing land for extra housing for both Russians and expatriates," Poole said, adding that the Russian head of JV Dialogue, Pyotr Zrelov, asked CCI to work with the company to develop a golf course.

"Would the land be suitable, how much land does it take, how should it be designed and built, that's how our discussions have been going," Poole said. "We would manage and/or own the property to the extent that anybody owns property in the Soviet Union." Poole said the region could have golfing six months a year at best; then the complex would feature three or four months of cross-country skiing.

"A catchy deal"

"It's kind of a catchy deal but I wouldn't say that's the most optimum place to put a golf course if I were starting to do it," Poole said. "The other side of it is that the relatively large population (of Americans) in Moscow is expected to grow — the best estimate is that it's now 30,000 and it's expected to double in the next three years. There is a fairly high demand, particularly among the expatriates living there, not necessarily the tourists coming in."

"It's not particularly a conducive environment for American style of living; you have to find something to spend your time doing," he added. "They are captive there, if you will, with no facilities that we have in the United States. And there will be

Moscow

Continued from page 1

develop with CCI (ClubCorp. International) something that would be a nice facility which would be comparable to nice facilities here in this country where Americans could when they're in that country — whether it's for a week, a month or a year — and be able to do some of the things they do here at home; and golf is one of those things. We would like to put a golf course that's enjoyed by those who pass by as well as by those who play on the fairways." Jones called for the architects to join with some Soviets who will become involved but that's a lesser number."

The golf facility will include 40,000 square feet of clubhouse and conference rooms. CCI would add to that bedroom accommodations, based just purely on what the demand will be at the time, Poole said. Poole said "at the very best we could be pushing dirt next spring." The major holdup in the 26- or 27 different agencies' signatures needed to get land use. It's just slightly more severe than passing the Southern California tests of the environmentalists ... It's hard," Poole said. Poole said CCI will probably use 160 acres for the course. "It's good land. It's timbered land with enough roll and trees that it's a highly desirable setting," he said.

CCI hasn't chosen an architect yet, and will wait until it gets further along in the bureaucratic process. That lengthy process may explain why other courses are not built in Russia yet. Robert Trent Jones Jr. has been chosen to build course close to Moscow.

"There's a lot of talk, but I haven't seen anybody with ... (equipment) sitting on the land clearing the site, or anything else," Poole said.

Dye: Expect busy 1989

Golf course architects can expect the busiest year in a quarter century this year, according to Pete Dye, who in April completed a year as president of the American Society of Golf Course Architects. Interest in new golf courses and remodeling projects continues to build, Dye said. "Our members report an increasing number of inquiries for all types of projects," he said, "and society members project that 1989 will be the most active year in golf course construction and remodeling that they have seen in the past 25 years." A recent ASGCA survey indicated that 305 new courses and 268 remodeling projects are in progress. Dye said that while most new courses are still being built as part of residential developments and resorts, more municipal and public courses are on the drawing board.

"Our members are working diligently with municipalities and individuals interested in building good public courses to come up with cost-effective designs that will attract golfers and provide a long-term recreational benefit to the communities involved." Dye added that well-designed and maintained public courses, if properly managed, will generate substantial profits for municipalities and owners.
### Golf Courses By State

(As of December 31, 1988)

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| Total U.S.     | 6,203     | 2,135     | 5,288   | 13,626 |

*National Ranking*


The National Golf Foundation routinely lists golf course development. Individuals, businesses and organizations that join the NGF receive the listings free.

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Introducing a powerful new force in riding rotary mowers.


Now there’s the new diesel-powered model Cushman 807. Its totally integrated power train and new hydraulically-powered steering gives you unmatched performance over the long run. The 807 dispatches thick, wet grass on tricky maneuvers around obstacles without losing ground speed. No other rotary mower gives you a cleaner cut.

At the heart of the new, four-wheel 807 is a powerful 21.5 horsepower, 3-cylinder Kubota 950 diesel engine. We’ve also included a heavy-duty Donaldson air cleaner and a new, heavy-duty Cushman PTO clutch to keep your new Cushman Front Line running longer. A complete family of Cushman Front Lines and a wide range of accessories are available to meet all your needs all year 'round.

Choose a 3 or 4 wheel design with 60- or 72-inch side or rear discharge mower deck. Or add the exclusive Cushman Grass Caddy™ system, which lets you cut, catch, and hydraulically dump 16 bushels of clippings without leaving the seat.

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Certain death for the dinosaurs.

The new Jacobsen Tri-King 1684D makes heavy cumbersome 84" mowers things of the past. Jacobsen ushers in a new age in heavy-duty 84" triplex mowing with a truly lightweight, highly maneuverable package. So now you can say goodbye for good to those costly, one-ton monsters the competition turns out.

Lightweight and compact, this agile, rear-wheel steering machine maneuvers around trees and other obstacles in a hurry. A foot-controlled hydraulic lift with automatic reel shutoff makes cross-cutting fairways and striping sports fields quick and easy. Plus, the wide 10" overhang simplifies trimming around traps, while optional on-demand 3-wheel drive smoothes out tough hills. And the Jacobsen Tri-King maintains a productive mowing speed in 3-wheel drive, so it trims circles around bulky, sluggish would-be competitors.

Simple, cool-running hydraulics deliver exceptional control of cutting frequency. This smooth, consistent power and a choice of 5- or 10-blade fixed or floating reels produce a uniform, carpet-like cut — even in dense, wet grass. Unlike heavier competitors, the 1684D's balanced, lightweight design and wide tires minimize turf compaction. And optional easy-on/easy-off grass catchers make clean-up a breeze.

A liquid-cooled 16.5 hp diesel provides plenty of power with longer life, simpler maintenance and better fuel economy. Or choose the 1671D, a unique, durable 71" triplex with all the same quality features of the 1684D. Yet smaller reels cleanly cut tricky undulating terrain and those really tight spots.

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