

CUSHMAN





# The Next Generation Cushman® Turf-Truckster®

In 1964, we created the world's first Cushman Turf-Truckster...and a whole new class of vehicles. Imitators soon followed. But none with the same soul. The new Cushman Turf-Truckster features a truckload of improvements including the only fully automatic transmission in a heavy duty work vehicle. With the same rugged dependability as the original, the Turf-Truckster remains, as it began, in a class by itself. Call **612-333-3487** and drive the new Turf-Truckster today!

CUSHMAN

E-Z-GO

RANSOMES

RYAN





CUSHMAN MOTOR CO., INC.

2909 E. FRANKLIN AVE., MINNEAPOLIS, MN 55406 • (612) 333-3487 • TOLL FREE: 1-800-759-5343 • FAX: (612) 333-5903

# **HOLE NOTES**

Official Publication of the Minnesota Golf Course Superintendents' Association

#### 1998 MGCSA BOARD OF DIRECTORS

#### Officers

President	
Vice-Presi	dentPat Walton, CGCS Rolling Green CC 612/478-2179 • Fax: 612/478-6025
Secretary	
Treasurer	
Ex-Officio	Jim Nicol, CGCS Hazeltine National GC 612/448-3626 • Fax: 612/448-1726

#### Directors

Jeff Churchill ..... North Star Turf Supply 800/592-9513 · Fax: 612/484-8257 Paul Eckholm, CGCS ... Heritage Links GC 612/440-6494 Rick Fredericksen, CGCS ..... Woodhill CC 612/473-5811 • Fax: 612/473-0113 Jim Johnson, CGCS.....Rich Spring GC 320/685-4322 • Fax: 320/685-3461 Mike Klatte, CGCS ..... Elm Creek GL 612/478-8592 Tom Meier ...... Worthington CC 507/376-9250 • Fax: 507/372-2547 John Queensland .....Cedar River CC 507/582-3595 • Fax: 507/582-3133 Steve Shumansky .... Perham Lakeside CC 218/346-6071 Bob Simondet ..... Lesco Inc. 320/327-2929 • Fax: 320/327-2929 \* \* \* \* EDITOR Steve Shumansky E-mail: plcc@eot.com

#### \* \* \* \* Editorial and Business Office

Scott Turtinen, Executive Director Minnesota Golf Course Superintendents' Association 240 Minnetonka Avenue South/P.O. Box 617 Wayzata, Minnesota 55391-1617 Tel: 612/473-0557 • Fax: 612/473-0576 Toll Free: 800-642-7227 E-mail: MGCSA@aol.com



#### FROM YOUR PRESIDENT'S DESK

Jim Nicol Encouraged To Run Again For GCSAA Board



This year was the first time in over 20 years that we had a candidate from Minnesota run for the Board of Directors of the GCSAA. I was very pleased that one of our members was willing to dedicate his time and effort to represent our Association and Superintendents in general at the national level. Jim Nicol conducted a great campaign, raising good issues and working diligently through Friday night and into Saturday morning. Unfortunately, there were six other candidates running for three offices — two candidates being incumbents. This made it even more difficult to win a seat on the Board. Despite the hard work by Jim Nicol and Jerry Murphy, and 42 out of 87 Chapters supporting Jim, he came within 700 votes of winning the election.

On behalf of our Association, I would like to thank Jim for his efforts in running for this national office and encourage him to consider running again.

I would like to thank Steve Young and Dan Miller for arranging the hospitality room at the National Conference. We had a great turnout of 150 plus people who enjoyed the food and fellowship until the hotel closed the room. Steve said he is working on next year's party in New Orleans. We hope all of you will continue to attend.

Each year as we attend the National Conference we wonder about what new technologies are in store for us. I am amazed at how many new products come on the market every year. This year I learned three methods to prevent bunker banks from eroding, saving golf courses considerable time and money by not having to push sand every time it rains. The Conference is a great education tool to learn more efficent methods in maintaining golf courses.

Mike Klatte and his committee have begun planning this year's MTGF Conference. They have made some interesting changes for this December. If anyone knows of a good speaker for the program, please contact Mike. He is always open to new ideas.

\* \* \* \*

- Tom Fischer, CGCS MGCSA President



HOLE NOTES (ISSN 108-27994) is published monthly except bi-monthly December/January, February/March for \$2 an issue or \$20 per year by the Minnesota Golf Course Superintendents Association, 240 Minnetonka Avenue South, Wayzata, MN 55391-1617. Scott Turtinen, Publisher. Periodicals postage paid at Wayzata, MN. POSTMASTER: Send address changes to HOLE NOTES, 240 Minnetonka Avenue South, Wayzata, MN 55391-1617.

# **Inside This Issue of Hole Notes**

"Magic of Greenskeeping" Mini-Seminar Set March 8 By Michael Brower Tie a Yellow Ribbon 'Round That Old, Old Pond By Michael Brower **The Facts About Golf** Course Pesticides - GCSAA Online 2 Heavy Play, Weeds, Moss And Dead Poa–What's Next? By Bob Vavrek, USGA 15 My First Year As A Golf Course Superintendent By Thomas John Schmidt Calcium By Rick Gabler How To Save Dutch Elm **Infected Trees by Tracing** By Tom Prosser

## Departments

**9** From Your President's

- **Desk** By Tom Fischer, CGCS
- **Q** Membership Report
- By Tom Meier
- **1** Affiliate
- **41** News
- **20** Editor's Corner
- **DU** By Steve Shumansky

## Advertisers

Century Rain Aid
Classified Ads
Continental Golf
Country Club Turf
Cushman Motor Co
Double Eagle Golf Construction
Glenn Rehbein Companies
Grove Nursery
Hartman
Herfort-Norby
Leitner Company
Minnesota Golf Cars
MTI Distributing Co
MTI Distributing Co
MTI Distributing Co
North American Beach SandBC
North American beach sand
North Star Turf Supply
Par Aide
Paskvan Consulting
Paskvan Consulting
P&H Warehouse
Peterson Seed
Plaisted Companies
Polfus Implement
Precision Turf & Chemical, Inc
Prinsco
Tessman Company
Williams & Gill

#### MAKE PLANS TO ATTEND THE MARCH MINI-SEMINAR

MONDAY, MARCH 8, 1999 • 8:00 A.M.-4:00 P.M. DOUBLETREE PARK PLACE HOTEL-MINNEAPOLIS

SPEAKERS:

MICHAEL BAVIER, CGCS, PAST PRESIDENT, INVERNESS GOLF CLUB GORDON WHITEVEEN, CGCS, TORONTO BOARD OF TRADE GOLF CLUB

TOPIC:

THE MAGIC OF GREENSKEEPING — A PRACTICAL AND INFORMATIVE SEMINAR ON GOLF COURSE MANAGEMENT

#### 2 ONE-DAY GCSAA REGIONAL SEMINARS

MARCH 9 & 10, 1999 DOUBLETREE PARK PLACE HOTEL-MINNEAPOLIS

MARCH 9

TURFGRASS ECOLOGY — DR. KARL DANNEBERGER OHIO STATE UNIVERSITY

MARCH 10

FINANCIAL MANAGEMENT — DR. RAYMOND S. SCHMIDGALL MICHIGAN STATE UNIVERSITY

CONTACT GCSAA AT 1-800-472-7878 FOR MORE INFORMATION





# Tie a Yellow Ribbon 'Round That Old, Old Pond

By MICHAEL BROWER Hillcrest Country Club

Every time I step on a golf course, I see acres and acres of well-kept, fine turfgrass. I'm truly impressed with a Golf Course Superintendent's ability to meet the demands of today's golfers. I have a passion for lovely, smooth and fast greens. Lately though, I have taken a closer look at another type of grass on the golf course, ornamental grass. I now have a passion for lovely, colored and hardy ornamental grasses.

Ornamental grasses have been around a long time, but until recent years, they really weren't used extensively in the landscape. I'm beginning to see a change though, especially on golf courses. I recently took a long look at a nice looking pond on our golf course and

said to myself, "I'm going to tie a yellow ribbon around that old, old pond!" My inspiration came for the awesome displays of ornamental grasses that I had more frequently been seeing along roadsides, on private property and on Southern golf courses of America.

My search for the right grasses for this project made me aware that my options were abundant. It soon became a choice of what look we wanted, and how much money were we willing to spend on this yellow ribbon. There were no less than six local nurseries with wonderful plant material at reasonable costs. That yellow ribbon was now becoming a mix of colors, but wonderful ones at that. My final choices were Miscanthus sinensis "Silberfeder" Silver Feather, an elegant, upright grass of six feet with shimmering white fan-shaped blooms, Miscanthus sinensis "Purparescens," with growth to four feet, and leaves that turn bright red-orange in the fall and Calamagrostis acutiflora "Karl Foerster," a showy, five foot tall grass with showy, feathery plumes. Buying in bunches always pays off, and we were able to find a very large wholesale nursery here in the Twin Cities that was selling quart pots of established plants for \$2.30 per plant. If you're looking for results the first year, and a better chance of survival, buying rooted, potted plants is preferred over bare root divisions for ornamental grasses. After measuring the length of the pond



Two-year old plantings, Hole 4, Hillcrest Country Club. Front to back, *Miscanthus* "Purparescens," *Miscanthus* "Silver Feather," *Calamagrostis* "Karl Foerster."

perimeter, and deciding on how deep our ribbon would be, we placed our order for plant material and supplies. A good rule of thumb is to space plants equal to their mature height, but this depends on the look you want to achieve. We decided to plant with four foot spacing. Another good rule of thumb, which also depends on what you want to achieve, is a minimum of eight feet for your buffer or ribbon of plants around the pond.

These rules of thumb will help you accomplish several important things: it gives you some insurance in case you lose a couple of plants here and there and it will generally be thick enough to allow nesting of ducks, songbirds, butterflies and other small wildlife. It will act as a barrier to the pond for geese and it will give you more flexibility and creative freedom to vary your plant groupings and textures.

There are several ways to go about preparing the site for planting. I prefer not to use herbicide to get rid of existing plants or grass along water. My choice is to pull or dig any undesirable plants and use a sod-cutter to remove sod and other matted plant material. In this ribbon project, I also chose to seed the entire buffer with a mix of perennial and annual wildflowers and sheep fescue. Preparation of the soil for seeding is easily accomplished with the use of a small garden tiller or can be hard-raked by hand. A couple of

(Continued on Page 7)



Conserving Nature's Resources Since 1933.™

# EAGLE<sup>TM</sup> Series Rotors

H WAREHOUSE SALES, INC.

TANT NO. 4 GAT TAN

#### PLYMOUTH

<u>&</u>

9835 10th Ave. N. Plymouth, MN 55441 **612-542-1188** FAX 612-546-7515 1971 Seneca Road Eagan, MN 55122 **612-687-0282** FAX 612-687-0382

EAGAN

ESTIMATE CONTRACTOR

# ST. CLOUD

415 Sundial Drive Waite Park, MN 56387 **320-259-6448** FAX 320-259-0165 Call your Rain Bird Golf Distributor at 800-422-1487

A REAL PROPERTY AND A REAL PROPERTY A REAL PROPERTY AND A REAL PROPERTY AND A REAL PRO

RAIN-BIRD SALES, INC. GOLF

#### SIOUX FALLS

2303 W. 50th St. Souix Falls, SD 57105 605-357-9577 FAX 605-357-9960 1945 Rand Road Rapid City, SD 57702 **605-355-9003** FAX 605-355-9033

RAPID CITY

# Yellow Ribbon-

(Continued from Page 5)

inches of loose soil will provide good seed to soil contact necessary for germination. Dispersal of the seed is best done with a small hand-held spreader. I highly recommend the use of wildflower seed along with the ornamental grass in these situations. The wildflowers will provide good color the first year and beyond, while the ornamental grasses become more established. Sheep fescue will provide a nice nurse crop for erosion control and aesthetic purposes while the wildflowers mature. Seeding rates for wildflower seeds are typically 6-12 pounds per acre, there are usually about 500,000 seeds per pound, and prices range from \$20-40 per pound, so you undoubtedly get a lot of bang for your buck (and a lot of color for your ribbon). I always use the higher rate with wildflower seed. The use of an erosion control product can be beneficial, but many of the rolled matted versions do not allow a large amount of the wildflower seedlings to poke through the material and become established. I prefer the bagged, recycled paper products that can be easily spread with a small walk-behind spreader, which spread out and hold water once they are wetted down on the surface. A new variety called Penn Mulch comes with a small amount of starter fertilizer which is helpful for plant establishment, and has performed very well in these ribbon projects for me. Once you have done the measuring, figuring, searching and purchasing of materials, this is a good ribbon recipe:



Ornamental grasses and wildflowers near the 17th tee at Hillcrest Country Club.

Pull out or dig up any undesirable broadleaf plants.
Remove grass and other matted vegetation with sod cutter.

3) Till or hard-rake to a minimum depth of two inches and smooth.

4) Spread wildflower and sheep fescue seed over site and rake in.

5) Spread erosion control and plant aid mulch.

6) Plant ornamental grasses at desired spacing.

7) Lightly and frequently water daily until established. If your site affords you the opportunity to plant small colo-

nies of woody plant material (both deciduous and evergreen) on the boundaries of the ribbon, you should use that opportunity. This will add even more textures for all four seasons and will dramatically advance your efforts to increase the songbird population. Plant shrubs and small trees that will benefit wildlife like crabapples, hawthorns, dogwoods, birch, serviceberry, winterberry, plum, cherry, mountain ash, lilac, arborvitae, yew and viburnum to name a few. You will notice the increase in songbirds and other desirable creatures soon after planting and will be just as pleased



Eight- to 10-foot plant ribbon.

when you begin to hear the positive comments from the golfers about the beautiful ribbon of color and unusual texture that you've added to the course.

These projects are best done in the spring, which will allow for a full year of development of the ornamental grasses before winter. Once established, very little maintenance is needed for all of these plants. In early spring each year before new growth begins, the wildflowers and ornamental grasses must be cut back to the ground or burned if permitted and supervised closely. If this isn't done, growth will be delayed and full potential not reached. String trimmers work fairly well, but burning is recommended at least every other year. Injury to the plants and the loss of winter ornamental value will result if cutting or burning is done in the fall. If you would like to find out more about ornamental grasses for this region, contact the University of Minnesota Extension Service to order the North Central Regional Extension Publication #573, titled Ornamental Grasses for Cold Climates, written by Mary Hockenberry Meyer, Don White and H. Pellett, all professors in the Department of Horticultural Science at the University of Minnesota. This is a wonderful reference for species names, growth characteristics, ornamental value and hardiness.

Ornamental grasses offer a change of pace from the wellmanicured turfgrass on golf courses. They're fast-growing plants, ornamentally attractive throughout the year, require little maintenance, have very few pest problems and add a terrific variety of texture and color to the golf course landscape. Go for it! Tie a yellow ribbon around that old, old pond! Applications For 1999 MGCSA Legacy Awards and MGCSA Scholarship Awards Are Available at the MGCSA Office

The MGCSA Legacy Awards offer educational aid to the children and grandchildren of Class AA, A, B, C, D and Affiliate MGCSA members who have been an active members. The MGCSA provides scholarships to students attending college or vocational programs at any accredited post secondary institution.

Scholarship recipients are selected on the basis of academic record, potential to succeed, leadership and participation in school and community activities, honors, work experience, a statement of education and career goals and an outside appraisal.

Questions regarding the scholarship program should be addressed to:

#### MGCSA Scholarship Committee 240 Minnetonka Ave. So. P.O. Box 617

Wayzata, MN 55391

Phone: (612) 473-0557 Toll Free: 1-800-642-7227 Fax: (612) 473-0576

Applications must be postmarked by June 1, 1999.

# MEMBERSHIP REPORT

NEW MEMBERS: JANUARY 28, 1999

NEW MEMBERS: JANUARY 28, 1999	<b>C1</b>
Joe W. Wollner	Class
Cragun's Golf	. – A
Edward Dunkley Grand National Golf ClubGCSAA Rt. 2, Box 361, Hinckley, MN 55034 W: (320) 384-7084	. — В
Ronald Hines Spring Brook Golf CourseGCSAA 2128 Naples St., Mora, MN 55051 W: (612) 576-4923	. — В
Clifford D. Peterson Adobe Creek Golf ClubGCSAA 3520 Banyan St., Santa Rosa, CA 95403 W: (707) 765-3000	. — B
Steven R. Benson Grand National Golf Club Rt. 3, Box 411, Hinckley, MN 55037 W: (320) 384-7084	C
Seth Langager Meadow Lakes Golf Club 1108½ 3rd Ave. S.E., Rochester, MN 55904 W: (507) 285-1190	
Bradley W. Schulz Stonehenge Golf Club	C
Jon Frederick Powell University of Minnesota — Dept. of Plant Pathology 15666 Cornell Trail, Rosemount, MN 55068 W: (612) 625-5290	E
Darrin Johnson The Andersons	iliate
Bill MacDonald E-Z-GO Golf Cars	iliate
Mark Stennes Top Notch Tree Care	iliate
Reclassifications	
Christopher A. Smith Town and Country ClubD	to C

– Tom Meier MGCSA Membership Chairman



FEB.-MARCH 1999

# **CONTINENTAL GOLF TURF SERVICES**

The 1999 golf season is getting closer. Now is the time to reserve your custom Hydroject 3000, Liquid Wetting Agent and/or Soil Reliever Deep Tine Aerification applications for the summer.

## **THE HYDROJECT 3000**

The Hydroject 3000 water injection aerator is one of the essential tools golf superintendents have in helping to maintain healthy turf throughout the growing season. High velocity water injection penetrates 4 to 8 inches and laterally fractures soil layers. This type of penetration improves water uptake and advances root growth that gives you a more stress tolerant turf. With the Hydroject 3000 we can aerate your greens or other turf areas when they need it most; just days before a tournament or under a hot stressful sun. Hydroject 3000 smoothes greens as well. You will have a more uniform putting surface while keeping the same height of cut; you can even increase green speeds 10 to 15 per cent.

# **A NEW OFFER - LIQUID WETTING AGENT**

Wetting agents have been used to maintain healthy turf by improving the efficiency of water use along with other products you apply during the growing season. In the past, wetting agents ran through the hydroject in the form of a dissolvable tablet. Now it can be applied at varying strengths in a liquid form so we can apply the amount you desire. We can use your wetting agent or we will supply the wetting agent.

# SOIL RELIEVER DEEP TINE AERIFICATION SERVICE

The combination of greater water usage, heavier equipment and increased foot traffic results in deeper compacted soils. When poor drainage symptoms occur due to compaction, cultivation practices should be increased. Plants require oxygen to grow. By relieving compaction with the Soil Reliever, you will have a root system down to the depth you aerify. With deeper roots you get more wear tolerance with less stress, therefore a healthier turf grass. Our Soil Reliever can use a solid or coring tine at depths for 8" to 12" and diameters of tines from ½" to 1 inch. The hole spacing can be from 3" to 5". We provide 1 set of tines, the tractor, the Soil Reliever and the operator, or we can deliver it without the operator and provide instructions on how to operate the Soil Reliever so you can rent it over a period of days. The prices vary with or without an operator and will be determined by the square footage of the area contracted.

Please contact Jerry Webb at Prestwick GC for prices and scheduling on the dates you desire.

651-459-0288 or FAX 651-458-9175

# Keep Your Course In Top Condition...



# Sprinklers • Valves • Controllers • Fountains • Pump Stations • Controller Service Repair

lolf course superintendents like yourself are making G plans to get their courses in top shape for the new season. And irrigation is at the top of their lists. Century golf professionals can show you how to maintain a highly-playable course, and can help solve any irrigation or drainage problems. They can also show you what's new in clubhouse landscape lighting, water features and more. Call today for a FREE catalog and on-site consultation: 800-347-4272.

#### **Controller Board Repairs**

Call Century when you need controller board repairs for Rain Bird and Toro golf



controllers. Replacement boards can be shipped within 24 hours. Call 888-855-9132.

## SyncroFlo Pumps An efficient pump station can solve many



irrigation problems. Century now offers the SyncroFlo Eagle Series, the premier system for golf courses.

SyncroFlo, Inc.

#### **Aqua Master Fountains** Improve water quality with an aerating

With Irrigation Supplies from

CENTURY RAIN

fountain. Century can also show you how



to create water features from existing streams or ponds.



**CENTURY RAIN AID** 

www.rainaid.com 800-347-4272

Now Serving These Major Markets: Alabama, Connecticut, Florida, Georgia, Illinois, Indiana, Kentucky, Maryland, Massachusetts, Michigan, Missouri, New Jersey, North Carolina, Pennsylvania, Virginia, Wisconsin and Ontario, Canada.

CENTURY GOLF PROFESSIONALS ➤ MINNESOTA • DON CHELMO = 612-509-9290 • JOHN MARKESTAD = 608-742-0377