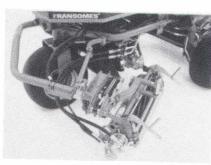
Ransomes® Greensplex™ II





The patented swing-out center reel provides easy access to all cutting units.

EASY TO OPERATE

- Power steering standard
- Fingertip controls
- Pedal operated 6" disc service and parking brakes
- Foot control pedal disengages reel drive system
- · Easy removal of grass catchers
- Power backlapping

CUSHMAN

TURF CARE AND SPECIALTY PRODUCTS

DESIGNED TO PERFORM

- · Exceptional quality of cut
- 11-blade reel with 0.187" clip
- · Control clip rate by ground speed
- · Automatic mow speed control
- · Precision bedknife adjustment
- Optional large capacity quick-mount grass catchers
- · Optional tournament bedknife
- Optional TPS™ hydraulic oil leak detection system
- · Optional 3 wheel drive
- Optional individual front reel lock-out

DESIGNED FOR COMFORT

- High-back contour seat with 5" fore/aft adjustment
- Adjustable height steering arm
- Optional armrests

SERVICEABLE

- Swing-out center reel
- · Interchangeable cutting heads
- All components are easily accessible

■ PRODUCTIVE

- 62" cutting width
- 7.5-mph transport speed
- · Hydrostatic drive standard
- · Adjustable mowing speed control

BUILT TO LAST

- Fuel efficient, 18-hp Kohler gas or 18.8-hp Kubota diesel engine
- Engines meet 1995 CARB specifications
- · Welded steel tubing construction
- Strong, durable polyethylene grass catchers



For The Best Results

Factory Authorized Dealer Since 1949

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

Directors Mike Brower Hillcrest CC 612/777-5186 • Fax: 612/774-1752 Jeff Churchill North Star Turf Supply 800/592-9513 • Fax: 612/484-8257 Wayzata CC Bob Distel . 612/473-6955 • Fax: 612/404-2532 Paul Eckholm, CGCS...Heritage Links GC 612/440-6494 Jim Johnson, CGCS.....Rich Spring GC 612/685-4322 Mike Klatte, CGCS Elm Creek GL 612/478-8592 John Queensland Cedar River CC Steve Shumansky Perham Lakeside CC

EDITOR

Steve Young Plaisted Companies, Inc. 612/441-1100 • Fax: 612/441-7782

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





218/346-6071

FROM YOUR PRESIDENT'S DESK

Are You Ready To Become More Active In Our Great Association?



Many of you may remember when last month's column stated that "we wait for the next curve ball from Mother Nature." It came across home plate in the form of 90+ degree days with dew points in the mid-70s. I hope we all have our plant protectorants in place. Judicious use of water resources may also help us get through this latest curve ball. Looking after your staff's well-being is also encouraged. Perhaps starting work earlier so they can complete their tasks before the hottest part of the day arrives while making sure plenty of water is available. Taking short breaks also helps to ensure they stay healthy and available for the next day. When outside conditions become unbearable, it might be reasonable to send the staff home. They probably aren't getting much accomplished and it helps to keep the morale high during a time when it tends to deteriorate.

Fred Taylor is working on a slate of candidates for the annual election of officers and directors. If you, or someone you know, might be interested in becoming more active in this great association, please contact Fred. It is a great way to meet more of your colleagues as well as giving something back to our profession. If anyone has questions regarding the amount of time involved, please call me or any current board member. The commitment is not as involved as it once was, now that our Executive Director shoulders many of the duties.

There was an unsigned letter published in last month's *Hole Notes*. You can be assured a mistake of this nature will not happen again. We will not publish letters just because someone needs to vent, particularly if the author is not identified. I will be happy to assist any member who is having difficulty contacting a vendor. If anyone needs more details on why this slipped through, feel free to contact me.

Unfortunately, I will not be able to attend the August meeting in Mankato. Hazeltine is hosting the 2002 PGA Championship, so I will be attending this year's event at Sahalee Country Club in the Seattle, Washington area. My goal was to attend each monthly meeting; however, you will be in the capable hands of our Vice President Tom Fischer, CGCS.

Labor Day will soon be here and the fall aerification programs will be under way. - Jim Nicol, CGCS

Jim Nicol, CGCS
 MGCSA President



Mel Strand, CEO 35 years experience

Double Eagle
Golf Construction

Redesign the Old ...Construct the New

17555 Madison St. • Ham Lake, MN 55304 • (612) 434-0054

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

1	Alk	oany	& V	Wapicada	Team	Up
	To	Win	Sch	Iolarship	Scram	ble
	By S	cott Tr	irtine	n		

Turf & Grounds Research And Education Center By Bob Mugaas

Considering Relocating? By Mike Nelson

Hole-by-Hole View Of North Links GC By Jerry Storjohann

16 Matt McKinnon Receives NCO of the Year Award By Thomas Kientzle

University of Minnesota Research Updates Submitted by Bob Mugaas

10 A Growing Concern By Tamara Horvath

Departments

From Your President's Desk By Jim Nicol, CGCS

Classified Ads

Editor's Corner By Steve Shumansky

Advertisers

Century Rain Aid	
Country Club Turf	
Cushman Motor Co	
Double Eagle Golf Construction	3
Duininck Bros., Inc.	. Back Cover
Glenn Rehbein Companies	7
Hartman	4
Hedberg	9
Herfort-Norby	11
IMC Vigoro	12
Leitner Company	6
Lesco	34
MTI Distributing Co	
MTI Distributing Co	19
MTI Distributing Co	26
North Star Turf Supply	8
North Star Turf Supply	30
North Star Turf Supply	24
Paskvan Consulting	29
Peterson Seed Co	21
P&H Warehouse	IBC
Plaisted Companies	33
Polfus Implement	
Polfus Implement	31
Precision Turf & Chemical, Inc	28
Prinsco	
Rhone-Poulenc	27
Rohling Green Corp	25
Scotts	32
Wilber-Ellis	22
Williams & Gill	20
Zeneca	17

1998 MGCSA CALENDAR

August 17MGCSA Championship North Links GC
Host Superintendent: Jerry Storjohann
September 14Stodola Scramble Pebble Creek CC Host Superintendent: Cary Femrite
October 5
November 14
December 10MGCSA Annual Meeting

Est. 1972

**Sports Turf Specialists'

 High Tech Drainage Techniques & Design Renovation

Landscaping

Excavating

& Grading

Jeffrey L. Hartman President

8011 Bavaria Rd., Victoria, MN 55386 • 612-443-2958 • Fax: (612) 443-3452

Minnesota Turf and Grounds Research & Education Center

An Update and Review of Its Purpose and Mission

By BOB MUGAAS Coordinator—TGREC

The College of Agriculture, Food and Environmental Sciences (COAFES) has long had an integrated set of research, teaching and education programs in turfgrass development/management, landscape ecology, urban entomology and landscape materials development. These programs are carried out on the St. Paul Campus at the Landscape Arboretum and at other sites around the state.

The Turf and Grounds Research and Education Center (TGREC) is being proposed for an approximately 1200-acre parcel located primarily on the Rosemount Research Center property in Rosemount, Minn. TGREC has several unique partnership possibilities between the University of Minnesota and other organizations and businesses. These potential partners include the Minnesota Turf and Grounds Foundation, the Minnesota Golf Association, the United States Golf Association and several area businesses. As the programs and facilities are developed, there is likely to be other important partnerships formed that will help support this facility on into the future.

Related more specifically to the turf industry, a unique feature of the proposed Center will be its fully functional playing fields and golf courses that will allow for the study of various turf uses under conditions encountered in the "real world." Of the proposed golf courses, one 18-hole course would be designed for normal play with minimal disruption for research purposes and one 9-hole "research" course. In addition, areas will be set aside for more traditional resarch methods and projects. While these particular facilities are focused on the turf industry, they will also provide opportunities for short and long term evaluation of "sustainable" landscape design, landscape restoration, tree and shrub maintenance practices and IPM strategies for woody and herbaceous landscape plants.

Continuing education for practicing professionals in the turf and grounds industry will be fostered through conferences, workshops and seminars conducted at the Center. There will also be formal degree programs offered through COAFES. There may be additional programs conducted in partnership with other area and regional colleges as well.

Following are a few brief examples of the types of projects to be undertaken at, or issues addressed, through the TGREC:

• Turfgrass variety development, pest and cultural management strategies for golf courses, parks, sports fields,

sod and seed producers, cemeteries and residential and business lawns.

- Landscape plant development, pest and cultural management strategies, including irrigation technology, for the same groups as mentioned above along with the arboriculture and nursery and landscape industry.
- Recreational facility management practices and their potential to impact ground and surface water resources.
- Containment systems for fertilizers and pesticides to eliminate any adverse impacts to surface and ground water resources.
- Environmentally friendly and sustainable recreational and research facility design.

The creation of TGREC will provide a focal point for the (Continued on Page 7)

JOHN DEERE

1800 UTILITY VEHICLE

You'll Soon Understand Why "Utility" Is Its Middle Name.



The 1800 Utility Vehicle offers tremendous work potential from one basic machine. Foot-controlled hydrostatic drive gives you an immediate advantage. Teamed with the gutsy, liquid-cooled 18-hp engine, this drive system delivers infinite speed control for precise operation. Great for jobs ranging from spraying to spreading to hauling. Other advantages include power steering, cruise control, wide stance and simple access.

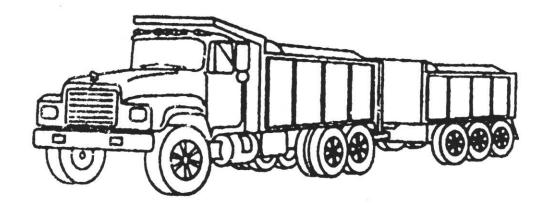


Polfus Golf & Turf 12040 Point Douglas Drive S.

Hastings, MN 55033

(612) 437-7747 • Fax: (612) 437-3483





LEITNER COMPANY

Specializing In Soils For Golf Course Maintenance & Construction

Soil mixing and processing specialists.

Supplying the Golf Course Industry with soil and sand products for over 50 years.

From 10 yards to 10,000 yards — material to specification for topdressing and construction.

Quality — Reliability — Experience

MIKE LEITNER

LEITNER COMPANY

945 Randolph Avenue St. Paul, Minnesota 55102

(612) 291-2655

PROUD SUPPORTER OF RESEARCH AND EDUCATION THROUGH THE MGCSA

TGREC-

(Continued from Page 5)

College's current programs. The specially designed facilities will greatly expand the capabilities of current faculty and staff. Beyond this obvious benefit, several others should also occur:

1) The Center will enhance our ability to attract external support and will provide the College with the only such facility in the nation. This will firmly establish the significance of the University of Minnesota as an international leader in northern climate landscape material development and management. The potential partnership with the USGA will affirm the stature of our turf programs and further strengthen our abilities to compete for grants and contracts.

It is only through the combined efforts of everyone's support that TGREC will become a reality.

- 2) The availability of the Center will allow the College to conduct workshops, environmentally related youth programs, seminars attracting partnerships and general conferences from around the nation and the world.
- 3) The Center will positively influence our recruiting of both undergraduate and graduate students interested in turf mangement, nursery management, landscape construction and maintenance, urban forestry/arboriculture

and related degree programs. For example, a two-year degree, offered in cooperation with area Technical Colleges (and perhaps others), will act as an additional source of four-year majors.

4) Net revenues from the Center's operations will help support research and teaching programs consistent with the mission of the College. This will have significant potential to reduce the dependence on recurring public dollars for support for the Center's programs.

As you can see, the research, education and outreach programs of this Center contain something for everyone in Minnesota's Green industry. Whether you are a park superintendent, arborist, cemetery grounds manager, golf course superintendent, grower and/or seller of landscape plants, sod grower or involved in the lawn and landscape service industry, this Center will be a mainstay for current, relevant applied research and education for your profession. However, it is only through the combined efforts of everyone's support that TGREC will become a reality.

Stay tuned for more information about this Center and how you and your organization can help make it a reality that benefits Minnesota's entire turf, landscape and grounds maintenance industries.

If you have any questions or would like more information about the TGREC project, please contact me, Bob Mugaas, Coordinator for TGREC. I can be reached by phone at (612) 625-9234 or fax at (612) 624-4941. My address is University of Minnesota, 422 Alderman Hall, 1970 Folwell Ave., St. Paul, MN 55108.

QUALITY SUPPLIER OF TURF

QUALITY CONSTRUCTION & RECONSTRUCTION

 Washed and Regular Turf (Sod) in 1^{1/2} yd. or up to 55 yd. Big Roll Size (42" Wide)

TURF TYPES:

- ELITE KENTUCKY BLUEGRASS BLEND
- SPORTS TURF BLUEGRASS/P. RYEGRASS BLEND BENTGRASS

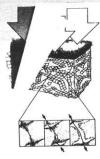


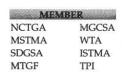




NETLON*ADVANCED TURF SYSTEMS

Self-Cultivating means healthier turf and better drainage.





For Compaction Resistance on cart paths, sports fields and other high use areas.

NETLON® MESH ELEMENTS AND MIXES

For Quality Turf Contact: (612) 674-7937 • FAX: (612) 674-7044

8651 Naples St. N.E. Blaine, MN 55449 For Quality Construction & Nelton Products Contact: (612) 784-0657 • FAX: (612) 784-6001



The first name in fairway mowers is about to get lots of second looks.

From the company that created the first revolution in fairway mowers, here's the second: the 34-hp LF-3400™ and 38-hp LF-3800.™ They're built to deliver great looks – and the superior quality of cut you expect from Jacobsen. You get 2- or 4-wheel drive, mowing speeds of up to 7.5 mph and your choice of 5" or 7" reels with our patented FlashAttach™ reel-mount system. Together, they make a powerful, easy-to-operate, easy-to-maintain fairway mower. Not to

mention mowing history. For your own second

look, visit your Jacobsen distributor today. For leasing and financing information, visit our

Web site or call 1-800-722-TURF.





THE PROFESSIONAL'S CHOICE ON TURF

JACOBSEN

TEXTRON

800-727-JAKE www.jacobsen.textron.com

North Star

St. Paul, MN 55117 612-484-8411 800-592-9513 Eagan, MN 55121 612-454-3106 800-551-4857

Considering Relocating?

By MIKE NELSON

Jackpot Junction

've challenged myself to contribute to *Hole Notes* at least once a year and I would hope that others would do the same as the success of a publication like this depends on membership contributions.

I have recently taken a job as Superintendent for a golf course that will be built by the Lower Sioux Indian Community in Morton, Minn. We will be breaking ground mid-August and completion is expected by the summer of 2000. The piece of property we have is fantastic. We've hired Rees Jones as the golf course architect and the resources are in place for a world class golf course in Southwest Minnesota. I'm looking forward to being a part of this project but there were some important decisions that had to be faced.

There are many things to consider if you are looking at possibly relocating. Although the job opportunity may be attractive, one must consider the most important things in life before making a decision. In my case, we very recently had a baby. The changes my wife and I were going through, getting acquainted with our little one, my wife getting used to being an at-home mom, combined with the possibility of us moving and myself staring a new position was a potentially stressful situation. My wife and I had talked about the possibility but it wasn't until I had a job offer that the life changing decisions had to be confronted.

I think we would all agree that there is a nice comfort level we achieve when we've been at a location for a period of time. We value the friendships that have been developed. Possibly the move would take you farther away from family members. If you have children in school it would mean taking them out of that environment. How would they adapt to a new situation? If you are considering relocating, make sure you stand back and see past the exciting employment opportunity and really consider your family's needs and how it will affect them. I love what I do for a living as does every other superintendent I know, but be sure to look at the big picture and be prepared to deal with some stress. I'm excited about my new employment situation and I don't regret the decision we've made, but actually going through it opened my eyes as to what's important in my life and where important decisions should have their

I have a few suggestion that may be of help to someone who is relocating. Some of these I've implemented while others I wish I would have.

Take time off in between jobs if possible. There are many things that require your attention at this time such

as contacting Realtors and getting your house ready to go on the market which may require some touch-up painting, carpet cleaning and general organization so your home can make good impressions on potential buyers. This is also a good time to give some of those clothes you don't wear anymore to charity groups and also provides an excellent opportunity to lose some of those gifts you've accumulated over the years. You will also be busy scouting out the area you will be moving to and looking at housing along with becoming familiar with other aspects of the area such as schools, churches, possibly job opportunities for your spouse. These scouting trips that are made should not be limited to see how much you can get done in a given day but to see if you can make fun out of the trip by having a picnic or staying in a hotel rather than trying to squeeze in everything and end up spending all your time on the road where (Continued on Page 12)



For All Your Landscape Hardgoods

Washed Sand & Gravel, Rip-Rap, Boulders, Decorative Rock, Mulches



Free Installation Training

- · Complete line of NDS Drainage Products
- · Concrete Retaining Walls
- · Concrete Pavers
- · Landscape Site Furnishings
- · Water Gardening Supplies
- Largest Natural Stone Inventory in Minnesota





2 Convenient Locations

Plymouth
1205 Nathan Lane N.
545-4400

Rosemount 4375-170th St. W. 423-5320

Same Day Delivery

AUGUST 1998

HOLE NOTES • 9

MGCSA CLASSIFIED ADS

LOOKING FOR

Cushman Front-Line Model 806-810 Liquid Cooled

Contact: David Kohlbry Northland Country Club

(218) 525-1941 Ext. 121

MECHANIC WANTED

Midwest distributor of Toro products seeking mechanic with experience in commercial lawn equipment repair or set up including hydraulics, drive train, electrical and diagnostics. Must have own tools. OPEI certification(s) or ability to be certified a plus. Competitive wages and incentives based on experience. Benefits include health, dental, life insurance and 401K. Send resume or apply in person to: RANDY MACKEBEN, MTI Distributing Co., 14900 21st Ave. No., Plymouth, MN 55447.

Paid Advertisement

FOR SALE

Used
TORO 474 1" BRASS
QUICK COUPLER VALVES
with standard cover.
Requires 11/4" valve key.
\$15.00 each.

Contact: DAVID WOOD Oxbow CC

(701) 588-4266

FOR SALE

• 40 Toro VT3 Controllers \$350

• 1 LTC Controller ...\$500

All controllers include steel pedestal and control panel.

Contact: TOM FISCHER Edinburgh USA

(612) 424-8756

FOR SALE

1991

Toro Fairway Aerator
- Model 9500

Used one season. Price is negotiable.

Contact: KEVIN CLUNIS St. Croix National Golf Club

(715) 247-4260

FOR SALE

Jacobsen Greens King

Model 62 Triplex 1,347 hrs. \$2,000 or best offer.

Contact: DAVE SIME Benson Golf Club

(320) 843-2109

LOOKING FOR

BALLPICKER FOR RANGE BALLS

Contact: JOHN QUEENSLAND Cedar River CC

(507) 582-3595

FOR SALE

(3) Verticut Reels for a Ransomes 350 Fairway Mower

\$1,500 or best offer

Contact: JOHN GRANHOLT Eau Claire Country Club

(715) 836-8422

FOR SALE

(14) Seven Blade Spartan Fairway Units & 7-Gang Frame, New Bearings, Reels in excellent condition. Sharp and ready to go. Can deliver.

Contact: TOM LUNDGREN KateHaven GC

(612) 786-2945

FOR SALE

1988 Jimmy S-15

154,000 miles PS, PB, PW, AC New Tires — Really Nice! \$2,895

Contact: JOE MORIS Tartan Park Golf Course

H: (612) 436-6012 W: (612) 736-8791

FOR SALE

Jacobsen Greensking IV \$1,500 or best offer Ryan Greensaire II Aerifier \$1,000 or best offer. Topdresser for Cushman Truckster \$500 or best offer. Contact: AL HANSON

(612) 434-5501 or 434-9104

MGCSA
MEMBERSHIP
DUES
ARE
NOW

*

PAST DUE

IF YOU
NEED A
DUES
STATEMENT,
CALL THE
MGCSA
OFFICE
AT
(612) 473-0557
OR

1-800-MGCSA-27

USED EQUIPMENT SALE

Cushman Trucksters from
Topdresser for Cushman
Cushman Ga-60 Aerator\$12,500.00
Core Harvester\$2,495.00
Toro Aerators
Core Destroyer for Cushman Mower
Ryan GA-30 from\$3,495.00
7-gang PTO Driven Reel Mower\$5,495.00
Demo Greens Mower 160
F-10 and Parkmasters from
Toro Bunker Rake
Jake Turfcat w/Cab, Broom and Deck
John Deere Rotary Mowers\$6,995.00
Olathe Sweeper PTO\$1,295.00
Cozy Cab for Toro Groundsmaster\$895.00

More trades on the way, give us a call and we'll find what your looking for!!!

CUSHMAN MOTOR CO., INC. 612-333-3487 or 800-759-5345

Paid Advertisement

HELP WANTED

We specialize in Golf
Course Renovation
and Drainage. Several
Full-time positions are
available within our
growing company.
Wages and benefits
are based on
experience.
If you are looking
for a change,
give us a call

(612) 443-2958

Paid Advertisement

10 • HOLE NOTES AUGUST 1998