

PENNCROSS SOD & Dominant X-treme 7

from Country Club Turf

Grown by **GOLF
COURSE
PROFESSIONALS**
for
**GOLF COURSE
PROFESSIONALS**



Supplying over 200
Golf Courses Since 1987

24317 Durant St. N.E.
East Bethel, MN 55005

(763) 444-6753

"A Quality Grown Reputation"

Simple Rate Control?



Yes, it does exist!

Accuracy in spray
application does not need
to be complicated.

Let it pay for itself in
chemical \$ savings.



*Start saving now,
Call us today!*

Frost
Services

1-800-621-7910
Email: info@frostserv.com
www.frostserv.com

Upcoming Events

August 27
MGCSA Championship
New Richmond GC
Host: Tom Johnson

October 8
Wee One Event
North Oaks GC
Host: Brian Boll



EDITOR

DAVE KAZMIERCZAK CGCS
DAVE@PRESTWICK.COMCASTBIZ.NET

CONTENTS

Vol. 44, No. 5 June 2012

Feature Articles:

- Solid Metal Profile Golf Nozzles** pages 10-15
By: Nancy Hardwick
- 2011 Wetting Solution Study and Analysis** pages 16-25
By: Aaron Johnsen & Kevin Leeper (Winfield Solutions) and Dr. Brian Horgan
- Menacing Mollusks** pages 32-35
By Daniel Johnson

Monthly Columns:

- Presidential Perspective** page 5
Scottie Hines CGCS
- In Bounds** page 7
Jack MacKenzie CGCS
- Within the Leather** pages 36-37
Dave Kazmierczak CGCS

About the cover:

Using a TDR 300 Moisture Reading Meter, Aaron Johnsen of Winfield Solutions Inc, generates data used to study and analyze the effects of wetting solutions and water holding capacity of fine turf putting surfaces. The total study can be found in this issue on pages 14 through 25.



...Even More Content...

On Board: pages 27-29
by E. Paul Eckholm CGCS at Heritage Links GC

Wee One Event Changed to August 8th mark your calendars!



This month's issue of Hole Notes focuses upon irrigation. Zebra Mussels, wetting solutions and new technologies are presented to expand your knowledge base and with your management skills.

Hole Notes (ISSN 108-27994) is digitally published monthly except bimonthly in November/December and January/February by the Minnesota Golf Course Superintendents' Association, 10050 204th Street North, Forest Lake, MN 55025. Jack MacKenzie CGCS publisher. Please send any address changes, articles for publication, advertising and concerns to jack@mgcsa.org.

2012 Board of Directors

Directors

President
Scottie Hines CGCS
Windsong Farm GC

Joe Churchill
Reinders Inc.

David Kazmierczak CGCS
Prestwick GC

Vice-President
Roger Stewart Jr.
TPC Twin Cities

Eric Counselman
Somerby GC

Matt McKinnon
The Legacy Courses

Secretary
Brian Brown
Chisago Lakes GC

Kerry Glader
Plaisted Companies

Bob Porter
Hiawatha GC

Treasurer
E. Paul Eckhom CGCS
Heritage Links GC

Bill Gullicks
Bellwood Oaks GC

Jake Schmitz
Olympic Hills GC

Jeff Ishe
Golden Valley G&CC

Executive Director
Jack MacKenzie CGCS
MGCSA



The Pro's First Choice

PROFESSIONAL ADVISE AND SOLUTIONS

EAGAN WAREHOUSE:
1980 SENECA ROAD
EAGAN, MN 55122
651.686.6756

DELANO STATION:
511 RAILROAD AVE
DELANO, MN 55328
THE HISTORIC DELANO FEED MILL
763.398.0316

LORETTO:
CORNER OF RT. 55/RT. 19 IN LORETTO
IT'S WORTH THE DRIVE!
763.479.1481

LIZA CHMIELEWSKI

PENN STATE TURF MANAGEMENT DEGREE

SPECIALIZING IN:

FERTILIZER
HERBICIDES
FUNGICIDES
BENT GRASSES
ROUGHS & FAIRWAYS

KEVIN MANLEY

MSU HORTICULTURE (30-YEARS EXPERIENCE)

SPECIALIZING IN:

ARBORJET TREE INJECTION
EAB AND JAPANESE BEETLE
PRO'S CHOICE
SIMPLE/COST-EFFECTIVE DRAINAGE
ATHLETIC FIELD MIXES





Presidential Perspective

by Scottie Hines CGCS

Well, here we are just past Memorial Day and if you are like me, it seems more like July

than June! The season started early and the weather has been a bit crazy. This makes it all just a little more fun!

I wish I had some exciting news to fill you in with. Unfortunately there really has not been much going on. Work continues on the website. I think everyone will be very impressed with it when it launches. The digital Hole Notes seems to be well read. The “hit” numbers have been exceptional and it is great to be able to track how many times it has been opened. This will help selling advertising and it will give us a barometer for how we as an association are doing.

In the past week or so there have been some e-mails sent out on legislative causes that need to be addressed:

****GCSAA needs your chapter members’ help in reaching out to the members of the House Agriculture Committee to ensure that H.R. 872, the Reducing Regulatory Burdens Act of 2011, is included in the House Farm Bill and final 2012 Farm Bill.**

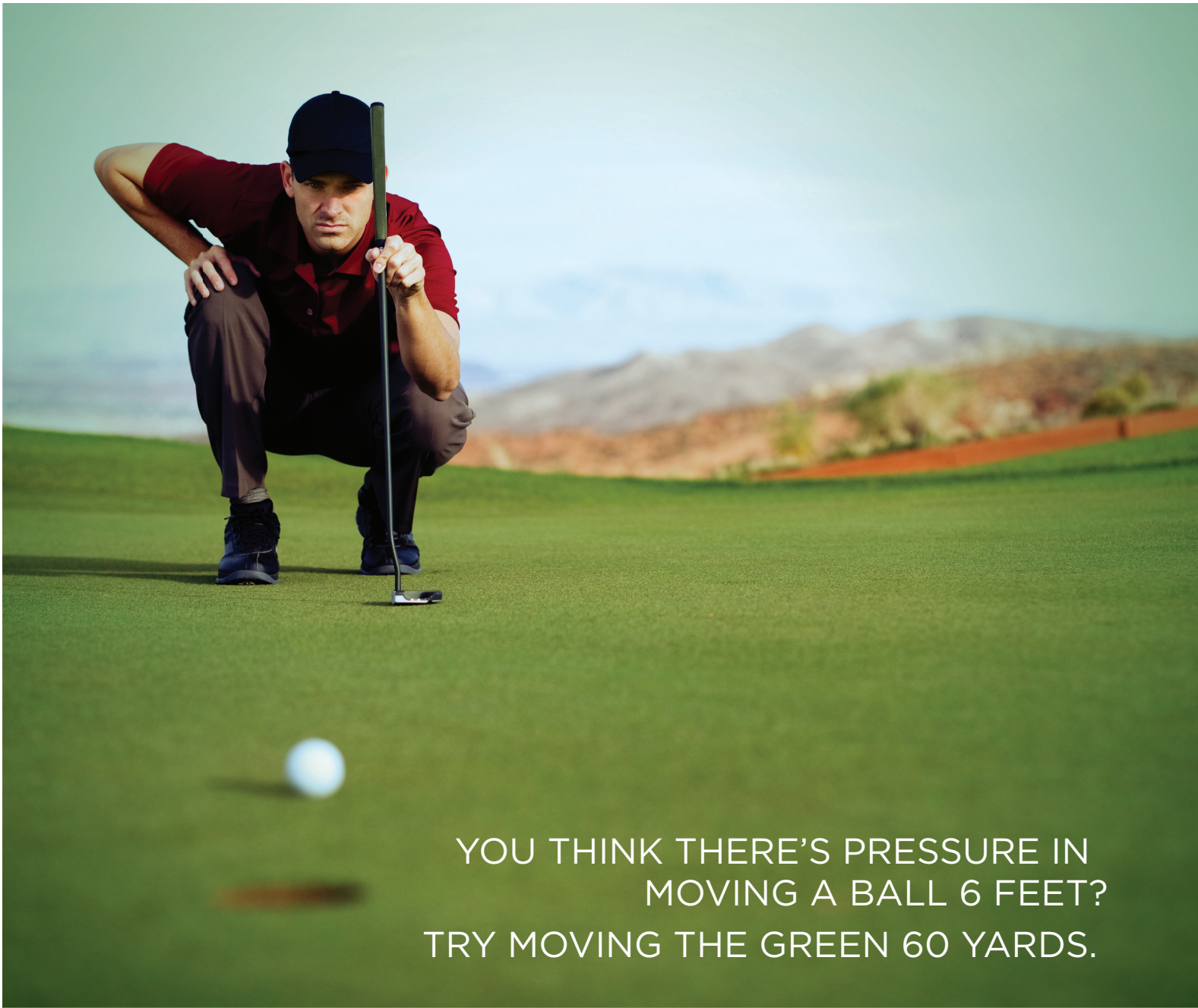
****The House of Representatives**

Transportation and Infrastructure (T&I) Committee will be taking up HR 4965 on Thursday that would prohibit the US Environmental Protection Agency or the Army Corps of Engineers from finalizing the “Final Guidance on Identifying Waters Protected by the Clean Water Act.”

More and more of these “Action Alerts” will be coming across your desk. Please take the time to contact your representatives and lobby to have these issues addressed in our favor. They are important to all of us!

Having just been to Washington DC with the GCSAA Government Relations Committee and meeting with staff members in several Representative and Congressmen/women’s offices, I can attest they care about us. They want us to be vocal about our issues. The louder we speak, the more attention these issues will get. The more attention they get the more likely we will get things swayed into our favor. We need to be loud and unified.

I know this is a very busy time of year for everyone. It is the time of year for invitationals, club championships, graduations, crazy weather, etc., etc. I urge everyone to take the time and contact your officials on any and all issues that affect us. These messages can be positive or negative. The key is to be heard! Together we are a big voice.



YOU THINK THERE'S PRESSURE IN
MOVING A BALL 6 FEET?
TRY MOVING THE GREEN 60 YARDS.



At Duinick Golf, we know renovation is as much about the process as it is about the end result. Precision construction, ironclad timelines -- every day of play counts. We have the experience and determination to make your most ambitious project a stunning reality in record time. Whatever the challenge, Duinick can do it.

DUINICKGOLF.COM





In Bounds

by Jack MacKenzie CGCS

On occasion I cry. No, not the big bloopy slugs of saline accompanied

by loud braying, but rather an eye filling trace of tears, breath restricting clutches in my throat and modest sniffles.

Indeed, I sometimes cry. Not at a beautiful red rose sunrise, a golf course shimmering in maintained perfection or an eight pound bass with scales the size of my thumb nail. Although breathtaking, I save my grandest sentimental response for the real important times of my life, reflections of my family and their accomplishments.

I cry at happy events not sad. Funerals draw solemnity and quiet from my introspective half. Joyous moments elicit a dimpled grin, wrinkled crows feet and that fine tell tale line of moisture engorging my lower eyelids; my jubilant and expressive core quaking with unbridled emotion.

In recent months I have done some crying. No, not when I smashed my little finger and nail between a trailer hitch and ball (that was a different kind of loud emotion!) Rather I cried in the presence and fulfillment of my children's accomplishments.

Daughter Madeline heard my voice loud above all others as I shouted, "Way to go Madeline!" during her commencement from Winona State. Much to her



chagrin! Dry eyed in the bleachers I pondered, thankfully, her achievements, her friends, her commitments, her life. Outside when I was finally able to give her the hug I needed, I paused holding her in my arms and cried. My pride in her choices welled from deep within me.

My son Tyler, through with school and living his tournament course dream at The Olympic Club in San Francisco, graced me with his couch last week during the U.S. Open. With a smile I slept tight at night in his small apartment, shared with



two water dragon lizards, three bi-color rats and a pair of guinea pigs.

Tyler, gone to work by 2:30 am and back home by 10:00 pm the week of the big event didn't have much time for me except for a private tour of his favorite course, "the Cliff Course" on Tuesday afternoon where we happened upon a chance photo opportunity.

Wednesday I was alone all day as he performed his important tasks. Alone but not lonely as I reflected on Tyler's grand adventure in our industry from divot dressing at North Oaks to work at TPC Twin Cities, Oakmont and finally his current destination. Late Wednesday afternoon I was one of the last on the bleachers behind the 16th green.

Had you been there to notice you would have seen a balance of moisture close to running down my cheek. An observer could have heard a raspy catch in my breathing as I thought about my son, my daughter and my very, very good fortune to share this wonderful life with them.

A wish for you my friends; a tiny tear, a mild shudder, a silent moment as you feel the satisfaction of family pride; your heart expanding ten fold. Take time and reflect upon your children and their true accomplishments. And if the moment moves you...have a little cry. Yes, have a little cry.



Thanks for being a part of who we are.

At Par Aide, we never forget it's your dedication to the course that constantly drives us to provide new, more innovative products. Products that save you time and deliver superior value. So from Par Aide, a sincere thank you for being our valued partner.



Wherever golf is played.

paraide.com



SOLID METAL PROFILE GOLF NOZZLES: **Improving Distribution Uniformity and Extending Sprinkler Life**

By Nancy Hardwick

Golf courses with aging irrigation systems often have similar concerns about clogged nozzles and inconsistent distribution uniformity, which can result in donuts and dry patches or over watered and saturated areas.

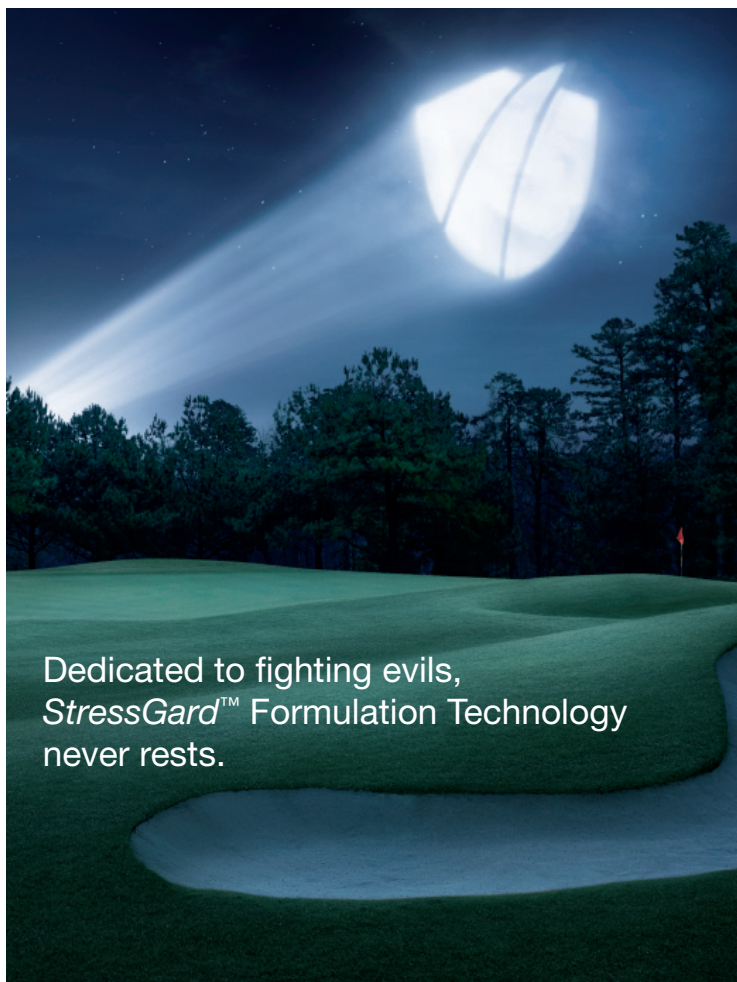
After exhausting traditional remedies, such as head adjustments, pressure checks, nozzle clean-outs and hand-watering, many superintendents have settled on a more long-term, labor-saving solution. They're replacing plastic

nozzles with solid metal Profile Golf Nozzles from Underhill International.

A recent change-out at the Tacoma Country and Golf Club by Superintendent Joel Kachmarek illustrates what many superintendents have experienced. He reported:

“Soft areas were appearing around the heads of our Eagle 700s. When we adjusted the sprinklers to cut back on watering, we ended up with donuts in the 15- to 20-foot range.

“Then the nozzles started clogging up. With older courses, you're going to



Dedicated to fighting evils,
StressGard™ Formulation Technology
never rests.

Protect your course with the most powerful technology out there. When it comes to overall plant health, Bayer fungicides with *StressGard™* Formulation Technology give you control when it matters most. We've developed these products to work at a cellular level, strengthening turf and fighting against evil stressors like heat, drought and traffic so you'll have the strongest, healthiest turf and happy golfers. **To learn more visit BackedByBayer.com/StressGard.**

Tartan® | Chipco Triton® Flo | Interface® | Chipco® Signature™ | Reserve®

Our five quality fungicides with StressGard Formulation Technology are proven to have preventive and curative properties against disease.

Contact Info:

Mike Kelly
Area Sales Manager
MN, IA, NE, ND, SD
952-292-1966
mike.kelly@bayer.com
www.backedbybayer.com



Bayer Environmental Science, a division of Bayer CropScience LP, 2 T.W. Alexander Drive, Research Triangle Park, NC 27709. 1-800-331-2867. www.BackedByBayer.com. Chipco, Chipco Triton, Interface, Reserve and Tartan are registered trademarks of Bayer. StressGard and Signature are trademarks of Bayer. Not all products are registered in all states. Always read and follow label instructions carefully. © 2011 Bayer CropScience LP.



Bayer Environmental Science