

on 01/2018

THE MIDWEST ASSOCIATION OF GOLF COURSE SUPERINTENDENTS

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# toc

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Todd Schmitz



Call it a sign of the times, but more and more players are hitting more and more balls. Some members prefer to practice rather than play, maybe it is a time issue or the access to lessons...no matter the case, our practice tee suffered until we implemented this program. Page 14.

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### 2018 UPCOMING MIDWEST EVENTS

- 01/23/2018 Midwest January Meeting and Wee One Fundraiser, Seven Bridges Golf Club
- 2/07/17 Midwest Hospitality Reception - Rio's on the River, San Antonio, TX
- 3/15/17 March Meeting and Bracket Madness, TopGolf

## 2018 Board of Directors

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Midwest Association of Golf Course Superintendents (MAGCS) exists to promote professionalism and integrity, to provide networking, education and career enhancement opportunities to all members who facilitate the growth and enjoyment of golf.

*On Course* is published monthly with original member content. For advertising opportunities please call 630-685-2420.

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Jim Pedersen  
Hughes Creek Golf Club

## A New Start

Happy New Year! I would like to thank all of you for electing me to serve as President of the Midwest Association of Golf Course Superintendents. It is with pride and humility that I accept the honor of being president. I promise to do everything that I possibly can to increase the value of this Association to you.

Our current Board of Directors, most of whom have been on the board for several years, along with three new directors, make up a diverse and experienced group of superintendents. Our Association could not survive without the hard work of the superintendents that volunteer for board service and the numerous committees. I encourage every member to consider serving on a committee of their choosing.

Recently, I was looking over some of the Past Presidents messages. One from 1951 stated: "... a continued worsening of the labor situation resulting in shortages of help such as was experienced in World War II, will no doubt lead to a curtailment of certain phases of golf course maintenance in 1951. Much serious thought should be given to the problem at this time and common sense approach to the situation arrived at."

Labor shortages were a problem in 1951 and continue to be a problem in 2018 for many of us. Though the underlying reason for the shortages have changed, the lack of labor is something most of us will continue to deal with this the coming year.

As an Association we freely exchange ideas and thoughts with each other which is what, I believe, makes us a great Association. For the coming year we have a new summer long golf event and will be kicked off at our March meeting at Top Golf titled "Golf Bracket Challenge". The golf/arrangements committee has completed our meeting calendar for the coming year with a great set of venues and courses for us to experience and see. The education committee is hard at work making sure topics are relevant and useful to our everyday work. I'm looking forward to our January Meeting at Seven Bridges with the education headlined by Dr. Cale Bigelow of Purdue University followed by our annual Wee One Fundraiser. As soon as this is over, some of us will head to San Antonio for the Golf Industry Show. Our Hospitality Reception is set for February 7 from 7-11 pm at Rio's on the River thanks to our Golden Tee Sponsors. I hope to see you at one of our coming events. In the meantime, I am always available for questions or comments so please do not hesitate to share your thoughts or concerns. @



**Take advantage of this simple program and support the Midwest all year long through *On Course* and Directory advertising, Hospitality Reception and Monthly Meeting Sponsorship. We can tailor a Core program to fit your needs including flexible payment options. Learn more at [MAGCS.org](http://MAGCS.org) or call 630-685-2420.**

# The Grind just Changes Seasons

Todd Schmitz, Phillips Park Golf Course

PHOTO CREDITS:TODD SCHMITZ

As the first snow falls over our area this Saturday morning in early December most of us have our golf courses “put to bed” for the winter. And most are able to get some needed rest. I, on the other hand, am getting geared up for the snow season by working our city’s first snow event.

I assist fellow MAGCS member Dan Anderson who is the Superintendent of Parks and responsible in helping the City of Aurora keep the roadways clear of ice and snow. I started helping Dan going back to the days of the economic downturn when there were layoffs, retirements without replacements, and asking to do more with less all started.

The City of Aurora is the second largest city in the state and takes a lot of coordination when it comes to snow removal. The city covers four counties (DuPage, Kane, Kendall, Will) and has to work with representatives in each in addition to IDOT and 7 other surrounding townships. The city is divided up into 37 snow plow routes. The Street Department has 20 routes, Water and Sewer has 7 routes, and the Parks Department has 10 routes. Each department is located in a different region of the city which makes the logistics a little easier as we are not crossing each other’s paths or have long travel times to our respective areas. During any given snow event the city’s goal is to keep primary roads clear with all city streets plowed within 12

hours of the snow ending.

Each year salt usage can range from as little as 9,000 tons as in 2015-16 season, to more than double like the 2013-14 season when we used 19,600 tons. The city’s five-year average of salt usage is 12,780 tons. Salt contracts are secured in February prior to the subsequent snow season. These contracts require us to receive at least 80% of the ordered amount and can be increased to 120%-130% if needed depending on the vendor. The city has learned to have contracts with multiple vendors as securing salt deliveries when needed may be difficult. Many operations learned this lesson during the 2013-14 snow season when barges had trouble maneuvering up the frozen Mississippi River. This resulted in local non-contracted salt purchases at much higher prices if one was even lucky to find some.

The city has two salt storage facilities. Our traditional looking salt dome is located at the Central Garage facility in the center of the city. This site can store 3,500 tons of salt inside the dome and an additional 2,500 tons piled and tarped outside. The other salt storage facility is a newer building in the east region of the city near the Parks Department. It has been designed to look like a barn that blends into the surrounding residential landscape. This structure can hold 4,500 tons with an adjacent parking lot that can hold an additional 2,500 tons if needed. Between the two facilities we can store what we would use in a light year. What becomes difficult is accepting new salt deliveries that start arriving before we have a chance to use what we have stockpiled. We realize the need for a third salt facility in the west region for storage and operations on that side of the city. Determining salt orders 10 months in advance of a season is very difficult when considering: cost of the purchase, having enough supply, storage, and public safety.



*The City of Aurora has two locations where salt is stockpiled. One is the traditional salt silo and the other is the “barn”, a more sightly version.*

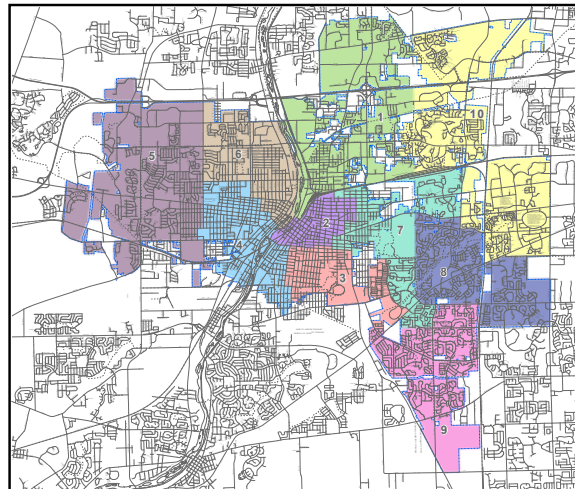
Staffing for the snow season requires some schedule changes. The departments responsible for snow removal divide their

CDL drivers over three shifts from Thanksgiving to the middle of March. This provides 24 hour coverage Monday through Friday eliminating work week overtime during winter months. For weekend events, drivers are called in from maintained overtime lists. Non CDL employees are used to maintain sidewalks, parking lots, and cul-de-sacs with smaller trucks. My full-time golf course employee joins two parks department employees to form the weekday 3<sup>rd</sup> shift. It is also during this shift when all the golf course equipment maintenance is done. I have no staff at the golf course during the day only seeing the 3<sup>rd</sup> shift staff in passing when I arrive in the morning. In this short amount of time we discuss their coming tasks, direction, and what parts and supplies I can pick up or order from them during regular business hours. If I need assistance on the golf course during the day I can count on Dan to coordinate someone from his staff to come over and help out.

We have enough personnel in our department to cover the removal of snow around the clock but not enough management to track and monitor progress during snow events. This is where I come into play and assist. Dan and I are responsible for monitoring the 10 routes of the Parks Department. We maintain three of the 10 routes with employees and the other 7 are contracted with four different vendors. Dan and I work together to make sure the department has supervision during an entire snow event. I typically cover after hour shifts because Dan still has daytime responsibilities and interactions with other departments in the city. We also cover for each other when we take our much needed time off away from work. Tracking events consists of calling drivers on the 10 routes every hour to document their progress and discuss any issues before they lag too far behind. Each route is listed by primary roads followed by less travelled residential streets. This documentation enables us to provide those who monitor the whole city timely information.



The spreaders get a rest during the warm months when the trucks are converted back to regular dumps.



Illinois's second largest city, Aurora has 197, 899 residents and is divided up into three regions: West Side (west of the Fox River), East Side (east of the Fox River) and Far East Side (bordering Naperville).

documentation enables us to provide those who monitor the whole city timely information.

Fielding complaints is part of the aftermath of any snow event. The City of Aurora has a customer service center which takes all of the residents' complaints. They enter the issues and information into the system which sends it to the appropriate department



for follow up. Complaints range from streets that have been missed, snow piled too high near an intersection, mailboxes damaged or buried, driveway damage to lawn damage. The Street Department handles all the mailbox damage; most of the complaints our department gets tends to be snow plow damage to lawns from errant plows. All complaints are verified, remedied at the time if possible, and closed out in the logging system. Items that have to be addressed later, like lawn damage, have to be noted in the system with a follow up date when the weather favors the application of seed and soil.

Remarkably I still find time to get away and seek more snow in the U.P. of Michigan to snowmobile with fellow superintendents and friends. It takes some weather monitoring so I don't stick Dan with a snow event to handle by himself. It's hard to plan these trips and one has to be ready to go when there is snow to ride. In December, my get-away bag is always packed coupled with an understanding family, I'm usually able to have some fun on

the snow a couple of times each winter. @



The snow that Todd and others enjoy: snowmobiling in the U.P. each winter.

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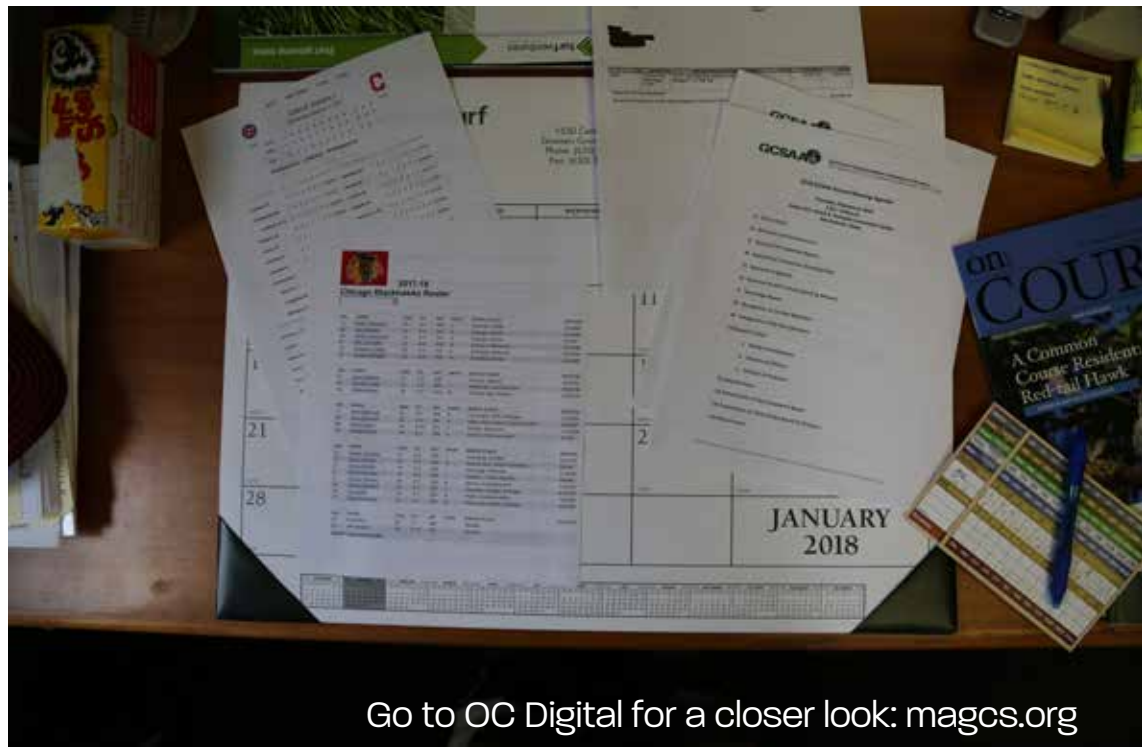
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# #BullSheet



DATES TO REMEMBER

January 2018

**January 9, 2018** - ITF's Turf Conference, Bridges of Poplar Creek, Dustin Hugen and Bill Meyer, hosts.

**January 12** – Advanced registration for the Golf Industry Show ends.

**January 18-26** – TurfNet's BIGGA Turf Management Exposition trip to Harrogate, England.

**January 23** - Midwest January Meeting and Wee One Fundraiser, Seven Bridges Golf Club.

**February 3-5** – GCSAA Golf Championships hosted at TPC San Antonio, Tom Lively host superintendent.

**February 3-8** – Golf Industry Show 2018 at the Henry B. Gonzalez Convention Center in San Antonio, Texas.

**February 20** – Midwest's Annual Assistant Winter Workshop, Midwest Golf House, Lemont, IL

**March 15** – MAGCS March Meeting, Top Golf Naperville and Bracket Selection for Midwest's Season Long Match Play Championship.

Happy New Year to you! In ringing in 2018, let's also ring in the first New Year MAGCS members, who are:

**Robert Lemke**, Class C, Bull Valley Golf Club

**Jamie Schmitt**, Class E, Nadler Golf Car Sales

**Michal Slezak**, Class C, Winnetka Golf Club

**Francisco Velasquez**, Class C, Olympia Fields Country Club

According to some very important, ground-breaking (and hopefully not overly-funded) research conducted by the National Golf Foundation, one out of every ten of you planned to give a golf-related gift this holiday season. That's the kind of research you can sink your teeth into, huh?

And...it turns out one of those one-in-ten was my daughter, who gave me a book called "Santa's Favorite Golf Jokes," so welcome to our latest new feature—the monthly golf joke! To start it off with a seasonal theme, two golfers relaxing in the 19th Hole were going over their Christmas plans. Harry: I got a new set of clubs for my wife. Larry: Nice trade.



Also from NGF, after eight years of sending us quarterly updates called "Dashboard," that name is being retired. Beginning this year, a new, improved and more robust digital golf business publication and accompanying website will debut—the publication once known as Dashboard will be called "NGF Quarterly," or "The Q," and the new website will be "TheNGFQ.com." Look for it in your browser and email box soon.

And even more compelling research has been performed by a group called Science of the Green, which found that there is a correlation between green speed and pace of play. Can you believe it? Faster greens create slower play—sometimes by as much as 30 minutes for each additional foot of roll. Mind-blowing.

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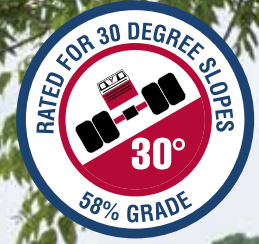
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Our condolences go out to the family and friends of longtime MAGCS member **Darrell Koelper** on the loss of Darrell's son Benjamin Koelper in an automobile accident last month. Ben was just 32 years old.

Have you noticed anything different while watching golf on TV this month? Probably didn't notice, but as of January 1, viewer call-ins on rules violations are banned, so no more armchair officiating will occur, which is a good thing for everyone BUT those armchair officials who now have to find lives for themselves.

Big congrats to Chuck Totten, the equipment manager at Westmoreland Country Club on being named the winner of the 2017 Edwin Budding Award from GCSAA. Named for the inventor of the lawn mower (I think his brother Karl invented bad lunch meat, incidentally) and presented in partnership with Jacobsen, the award is given annually to an equipment technician, manager, or related innovator/engineer who has made a significant impact in the golf turf business. Chuck has more than 30 years in the industry, and his dedication to his career is easily seen through his service on the board of the Turf Equipment Technicians Association here in Illinois, for which he also served as president.

Also congratulations to **Dave Braasch** (Glen Erin Golf Club) on officially being old. "Junior," as his MANY friends know him, recently received his coveted 25-Year Pin from GCSAA, a reminder that he is now well into the "back nine" of life as a golf course superintendent.



*Dave pictured with his honey Karyn Beatty*

OK, why not? Is the real reason Santa is so jolly because he knows where all the bad girls live?



While Nancy and **Fred Behnke** (Growing Solutions) were out and about during Christmas season, they decided to take in a show called "Music of the Baroque" at the Divine Word Chapel in Techy, IL. Much to their surprise, one of our own was on the stage performing in his usual "go-for-baroque" style—

**Jan Jarvis**. Turns out Jan keeps extremely busy throughout the holidays with his numerous performances, and if you've attended a Midwest Turf Clinic lately and heard him belt out the Star Spangled Banner, you understand why.

If you find you are still in the giving spirit of the holidays, why

not give to the CDGA Foundation? The Foundation's three pillars of service—to Special Needs golfers, Veteran golfers, and Youth golfers—would like you to help them brighten the lives of their participants by giving a tax-deductible gift (check the new laws on that). With it you can:

ENRICH the life of a special needs golfer for \$100 = 5-week camp for a participant;

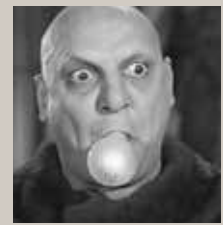
PROVIDE a social outlet for one veteran for \$150 = 5-week golf clinic for a veteran; and/or

GROW the game by giving affordable access to youth for \$50 = 5 rounds of golf.

Go to [CDGAFoundation.org](http://CDGAFoundation.org) to donate.

**Jeff Frentz** is one of those guys whose supreme intelligence just raises the bar amongst those he hangs with. In fact, you might call him the brightest bulb—the LED if you will—amongst a group of rather dull, incandescent friends. But what has been festering in me for such a long time is WHO DOES HE REMIND ME OF??

## MIDWEST Doppelgänger



*Frentz or Fester? Still want to know what is lighting that bulb.*



*Dan Tully, Scott Pavalko, Ben McGargill, Scott Vincent, Todd Fyffe*

Congratulations and the best of luck to the new Board of Directors for the Chicagoland Association of Golf Course Superintendents (CAGCS), elected at the Annual Meeting held

on December 13th at Oak Park Country Club (Philip Cuffare host). The new Board is as follows: **Ben McGargill**, President; **Tim Christians**, Vice President; **Scott Vincent**, Secretary; **Todd Fyffe** Treasurer, and **Scott Pavalko** Director.

Q: What brand of push mowers and snowblowers does Dennis Troy use on his course?

A: A Zigfield Troy-Bilt.

Congratulations to MAGCS member **Greg Martin** (Martin Design Partnership, Ltd.) on a very fine achievement last month. Greg's complete re-development of the Preserve at Oak Meadows has won Golf Digest magazine's 2017 Green Star Award, which recognizes, acknowledges and promotes environmental solutions by golf development. In its review, Golf Digest said, "This might be the most important new course of 2017"—high praise indeed!



And the raves for the Preserve at Oak Meadows just keep on coming. The December Club & Resort Business magazine ran a comprehensive article by Betsy Gilliland titled "On Higher Ground," detailing the renovation process from start to finish, and quoting superintendent and MAGCS member **Eric Ensign** throughout, and naming **Joe Schneider**, Golf Maintenance Supervisor and **Brent Richard**, Golf Maintenance Specialist in the Course & Grounds Profile.

An interesting and possibly telling thing happened on December 17th—the Wynn Golf Club in Las Vegas closed. Forever. The 12-year-old ultra-high end facility was owner and casino magnate Steve Wynn's response to losing his previous labor of love, Shadow Creek, during a hostile takeover of his Mirage Resorts in March of 2000. Thus Wynn Resort & Country Club was born, opening in April of 2005. Now its lavish golf course is closed, having "outlived its usefulness" according to the owner (although others, citing its price tag of \$350 - \$500 a round, argue that Wynn epitomizes what is wrong with golf). Don't feel too sorry for Steve Wynn though—the property being vacated by the golf course will be used for a hotel addition, convention space expansion and a 20-acre lagoon with white sand beaches, zip lines, water skiing, boating and fireworks (does Epcot sound familiar?). So while the golf course earned on average \$5 million a year, the new facilities are expected to earn 10, 20 or even 100 times that. Maybe Al Czervik was right—country clubs (and cemeteries) ARE the biggest wastes of prime real estate!



Our sympathies to the family of **Tim Davis** (Class AA member) on the passing of Tim's mother Marjorie Davis at the age of 92 on November 24th in Wildwood, Florida.

For those of you that missed it: We welcome our new MAGCS Board of Directors led by President **Jim Pedersen** of Hughes Creek Golf Club. Joining Jim as officers are Vice President **Justin Kirtland**, Arrowhead Golf Club and Secretary/Treasurer **Jim Canning**, White Eagle Country Club or

**Brian Stout**, Arboretum Club (still up in the air at press time) The 2018 Directors: **Todd Schmitz**, Phillips Park Golf Course; **John Ekstrom**, Inwood Golf Course and **Mark Kosbab**, Sportsman's Country Club. **Matt Harstad** is now our Past President, and **Matt Kregel** has completed his Board service. Additionally, Directors **Justin VanLanduit**, Briarwood Country Club and **Kris Kvelland**, Ridge Country Club did not seek re-election at this month's Annual Meeting. **Rusty Stachlewitz** has taken the reigns of Commercial Representative and **Wyatt Byrd** continues to be the Class C Representative. A special thank you to **Jake Vollbeier** for his years of service and thanks to all of these gentlemen for their commitment to our great association!

The proposed bylaw changes and the proposed dues increase passed without a dissenting vote. Technicians can now join MAGCS for \$50, a real value as the board plans to get them more active within the Midwest.

Thank you to those whose hard work and generosity helped make the annual holiday parties a grand success. The South Side Superintendents Party at Chef Klaus Bier Stube in Frankfurt, and the West Side party at Seven Bridges are always a bright spot on the schedule to ring in the holidays with friends and peers, and this season's renditions did not disappoint! Pictures on opposite page.

#### Items for Sale



**John Deere 2653A Utility Mower**—1997 model with 3,894 hours--\$1,000 OBO

**Practice Range Picker**--\$500 OBO

**Wittek Golf Ball Washer**--\$1,250 OBO


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**2013 JD 2020A ProGator, 4WD DumpBed, only 450 hours; \$18,000.**

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*Cooler enclosures or bird houses for really big square birds.*



# Beaten by the Ugly Stick

## How We Solved our Practice Tee Problem

John Gurke, CGCS Aurora Country Club

The battle lines were drawn many years ago. The once-forgotten place on the golf course, where a handful of golfers would hit a few shots to warm up before heading to the first tee—the Practice Tee—somehow became important.

Whether due to the modern family schedule not allowing enough time to play a round but enough to whack some balls, or the countless teaching resources that are readily available, promising lower scores by trying this tip or that club, practice facilities are getting more use, and many of us struggle with keeping them playable through the long season.

I consider myself as a pretty anal person, especially when it comes to our practice tee and its daily preparation. I am also guilty of falling into a rut, employing the same procedures day after day, season after season, expecting to see different results for no logical reason. THIS season, however, I had an epiphany—one which came from the oft-ignored voice of our Caddie Master, who asked the simple question, “Why not do it this way instead?” BAM! From that seemingly insignificant suggestion we tweaked our daily maintenance program ever so slightly, and the results were nothing short of fabulous.

Our issue over the past years was this: How do we provide playable turf by the time we cycle through the tee which measures 26,000 square feet, and takes 3 weeks for a rotation? In a perfect world we would be able to lightly irrigate the seedbed frequently, germinating in a few days and establishing a thick stand of grass in that time frame; but the world of practice tees is far from perfect. Watering during use is frowned upon, and the hours of use are sunrise to sunset (and beyond, if the club is hosting a wedding and the range kid forgot to bring in the balls). Mid-July sun beats down on what scant seedlings have survived their initial days above ground, slapping them back down to where they began life. Golfers with bags full of picks and shovels and other implements

of destruction are conducting experiments daily to see how deep they can dig, as if they are planning to bury something that in 3 weeks they will seek to uncover anew. It just isn't easy being a range tee.

Over the years, we've promoted the “Concentrated Divot Pattern” approach, where golfers leave behind one big divot; then the “Scattered Divot Pattern,” where they just hit from random spots between the dividers; to our current “Linear Divot Pattern,” where we encourage our players to hit your next shot from just behind your last, leaving a “bacon strip” or two. And while I feel that this is the best method for quickest recovery, our problem did not go away. We were doing everything correctly that we could control, but we just couldn't figure out how to buy more time between rotations. Until one day last spring when Skip our faithful Caddie Master uttered these words: “Why not leave the rope?”

You see, each morning we would go about the process of moving the hitting stations back to unused grass, collecting the spent divots and debris, seeding and sanding the carnage, and wetting it down before players arrived. We'd use a rope stretched across the tee to make sure all the stations were lined up perfectly, then coil the rope and store it until the next day. By taking Skip's advice and leaving the rope stretched across the BACK side of the hitting stations, we put an end to

our biggest problem—that of golfers moving back into tomorrow's hitting area today, requiring us to move the stations further back each day than necessary. With that one little trick, along with setting up the ball pyramids at the front of the stations, we went from around 13 cycles through the tee in previous seasons to 2-1/2 this season.





Here is our formula:



1. Start by having all you'll need at hand—a Rubbermaid shed works great for us.



5. We keep a tote of the mix behind our tool shed on a pallet so we don't have to bring it every day.



2. Rake or blow yesterday's divots into piles and remove them.



6. Set up the hitting area for the day—for station dividers we use wooden 4x4's cut 4 feet long, taper-cut at both ends with two 12" spikes to stick them in the ground at approximately 10-12-foot widths. We use a taut rope at the front of the stations to precisely set the dividers.



3. Hand-sow seed—we use Penncross coated with Apron, limestone, nitrogen and mycorrhizae.



7. Set the rope across the back of the dividers and the balls in front to encourage "playing it forward," while discouraging using tomorrow's spot.



4. Cover the seed with divot mix—ours comes from Redline and is 60% sand, 20% reed sedge or Dakota peat, and 20% Healthy Grow compost (they'll custom blend whatever you ask).



8. Placards reminding golfers how we prefer they utilize our tee are attached to each bag stand.  
9. Rinse and repeat daily.

Last season our first complete rotation began on April 19<sup>th</sup> from the front of the tee and returned there on July 7<sup>th</sup> (about 11 weeks compared to 3-4 in past years). Our next full cycle lasted until September 19<sup>th</sup>, and we finished the season on November 1<sup>st</sup> about halfway through a third rotation. Having that much time allowed us to provide a near-perfect stand of turf every single day of the year. For the year we used 40 pounds of seed, 4 tons of divot mix, and approximately 2 man-hours each day. The tee was maintained the same as our other tees, with bi-weekly applications of fungicides, Primo PGR, and foliar nitrogen. We supplemented the foliar fertility with 3 applications of 12-24-12 granular in spring, summer and fall. Sure, it's just the range tee, but it is typically the first impression a golfer has when playing your course. The transformation we experienced by tweaking just a couple little things was noticed by everyone who uses our practice facility, and is a positive reflection on our care of the golf course.

Thank you Skip, and keep those suggestions coming! @



Guess the Touring Pro who knows the linear line divot drill?  
Answer on page 17.

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*If you couldn't tell by the Sketchers, it's Matt Kuchar who makes nice lines on the practice tee.*

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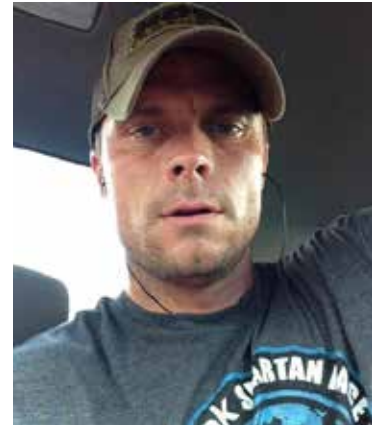
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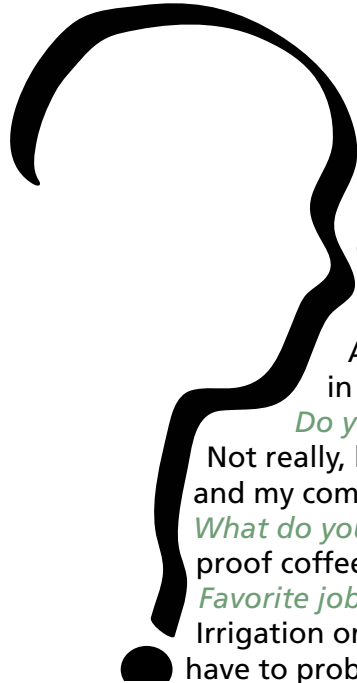
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Jason Kahlstorf, Assistant Golf Course Superintendent  
 St. Charles Country Club



*Where did you grow up?*

On a small farm just north of Britt, Iowa.

*First golf course you where you worked?*

Ames Golf and Country Club in Ames, Iowa

*Do you have a prized possession?*

Not really, but I value my gun collection and my compound bow.

*What do you like to drink?* Either bullet-proof coffee or Kombucha.

*Favorite job task at the golf course?*

Irrigation or project work. Anywhere I have to problem solve.

*Dream car?* I don't have a dream car,

but if money wasn't an issue, I'd buy a decked out Chevy Silverado.

*Favorite pig out food?*

Tacos

*Favorite restaurant?*

Fogo de Chao or Sweet Maple Cafe in Chicago.

*What is your favorite movie and actor?*

My favorite movie is Roadhouse and favorite actor is Tom Hardy.

*What is your favorite book?*

My favorite book is *Pale Horse Coming* by Stephen Hunter.

*What is your favorite sports team?*

Iowa Hawkeyes.

*What is your best vacation or favorite destination?*

I love visiting Canada, but the next destination on my bucket list is to visit Germany during Oktoberfest.

*What is the worst gift you have received or bought for someone?*

Buying gift certificates for my girlfriend never went over too well with her.

*What is your favorite work shoe or boot?*

Either Bogs brand boots or Merrells.

*What is your best work piece of apparel?*

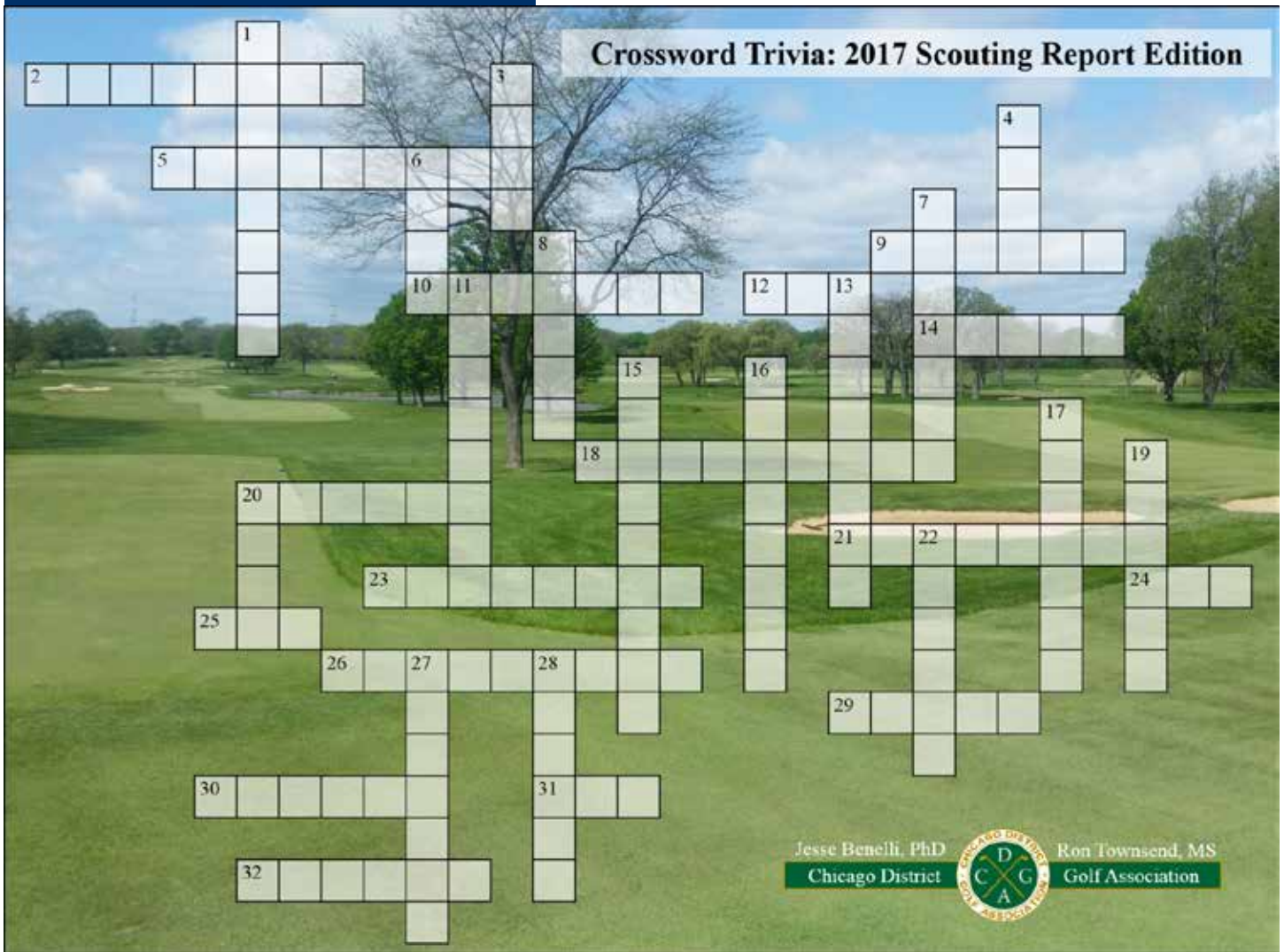
My Arborwear hoodie.

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Photo Courtesy of Skokie CC & Don Cross



Dr. Jesse Benelli, CDGA

**Across**

- 2 This weed is often found on compacted sites
- 5 This pathogen seems to have an affinity for A1/A4
- 9 Cultural practice that can reduce dollar spot
- 10 Cultivar of bentgrass susceptible to bacterial wilt
- 12 Often determines nutrient availability in soils
- 14 One of the major challenges facing the turf industry
- 18 Type III fairy ring produces these
- 20 Individual strands of mycelium
- 21 Pollinator plant for butterflies
- 23 Black fruiting structure from anthracnose pathogen
- 24 Severe disease of P.rye
- 25 Hydrophobic rootzones can cause this
- 26 Older bentgrass variety susceptible to anthracnose
- 29 Often wins the battle over turf for water and nutrients
- 30 The former common name for brown ring patch
- 31 Inexpensive but effective DMI
- 32 The dog days of summer is in reference to this star

**Down**

- 1 Temp at which water vapor condenses into a liquid
- 3 Poikilohydric weed found on low mown turf
- 4 Prostar and Emerald were the first of this class
- 6 Minor disease of slow growing turf during fall
- 7 Will often suffer from over regulation from PGRs
- 8 A measurement of light used to quantify daily light integral
- 11 Class of turf pathogens that are not true fungi
- 13 Will cause pinhole sized openings on greens
- 15 Describes the shape of a dollar spot lesion
- 16 Rhizoctonia species that incites yellow patch
- 17 Patch disease of bentgrass
- 19 These types of weeds have triangular stems
- 20 Class of herbicides that can bleach turf
- 22 Preferred tree of Japanese beetle adults
- 27 This nematicide is currently banned in turf
- 28 This pattern is used to identify white grubs

*Answers next month.*

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