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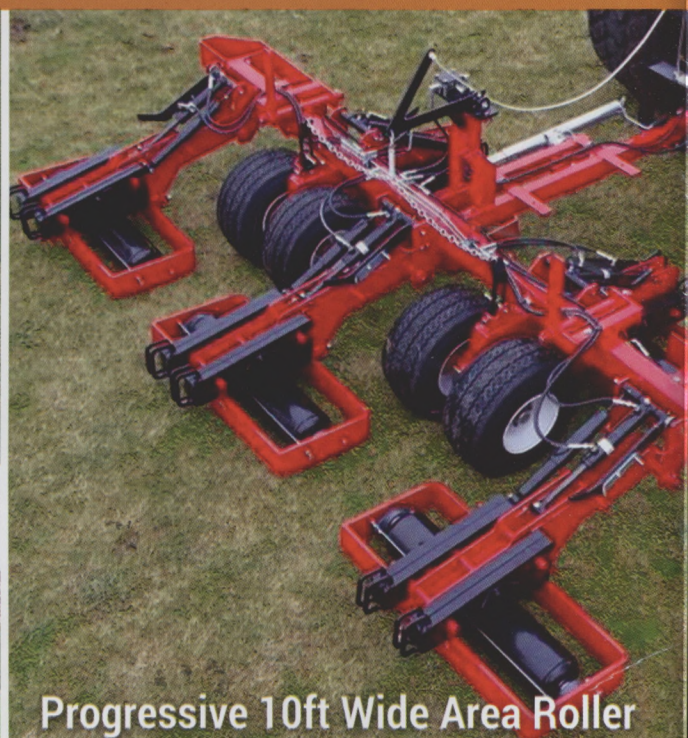
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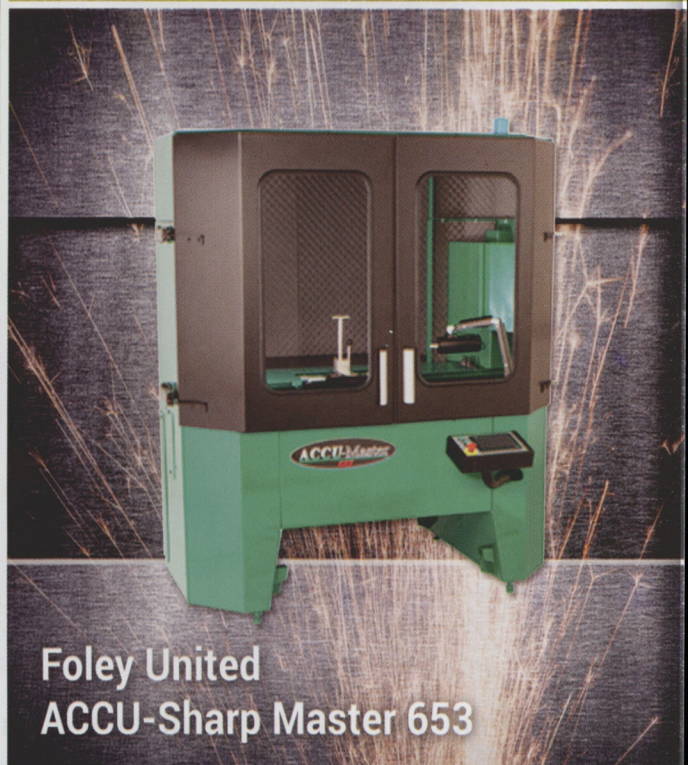
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Chuck Barber

SERIALS

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Though we never hit the 100 degree temperature mark, the summer of 2018 tested many Superintendents and their staffs especially when combined with the weather of the spring months. Aerification season can't come quick enough for some.

DEPARTMENTS

- 03 Director's Column
Brian Stout
- 09 The Bull Sheet
John Gurke
- 20 Nature of the Game
Dave Ward / Kati Bernardy

DATES

2018 UPCOMING MIDWEST EVENTS

- 10/2 October Meeting at Seven Bridges,
Dave Gelino & Don Ferreri hosts
- 12/5 Midwest Turf Clinic & Annual Meeting,
Medinah Country Club, Steve Cook host

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Brian Stout
The Arboretum Club

All Quiet on the Forum Front

They way superintendents get information, share ideas, and even vent frustrations has changed over the past few years. One significant change is the use of social media to obtain information and left in its wake are forum pages that once were found all over the internet.

I remember back in my days of being an assistant superintendent checking the forums at lunch break. I would do this with my boss Ron. It was a great way to see what other supers were dealing with from around the country. Whether it was the GCSAA or TurfNet forum, both had their share of questions. It was a great way to learn new ideas and see how colleagues approached aerification, fertility programs, watering, etc. I remember one specific topic that garnered a lot of attention was how raking bunkers was approached. Yes, it was a popular post, there were 10 plus pages where fellow superintendents shared their ideas and offered their ten-cent approach on the topic. It seemed each day there were 10 or so new posts to look and read through. It was a great learning tool that helped me develop and grow to eventually become a superintendent.

Now when I occasionally visit one of these forum sites I see maybe one or two new posts every few days. Why the decrease in activity? Are all of people's turf problems solved? No, social media has replaced the internet forum. Now people turn to Twitter and Facebook to ask and answer life's questions about turf. The ability to upload pics/videos and comment from our smartphones instantly, has replaced the more labor intensive process transferring photos to a computer. And we are all about saving on labor. People can ask a question on twitter and have it answered in minutes. The other big change is that information finds us, we don't have to seek it out. We're notified of new posts or tweets- gone are the days of carving out specific time to go and seek out information - it hits us whether we want it or not.

...social media has replaced the
internet forum...

Depending on who you follow you can be introduced to a variety of information. Vendors post regularly about new products and equipment. Lots of the time they are accompanied by a video. By clicking on a post you can see other people's comments and ask a question specific for your needs. This can open up a discussion amongst your peers and provide valuable insight to a product or equipment that was not possible on forums. This was evident with this year's U.S. Open. Everyone in the golf course Twitter world had their opinion on how the USGA set up the course. With the ability to comment anonymously, some of the posts were hilarious.

A couple of Twitter handles are even specifically created for those pesky problems. Are you having one of those days? There are plenty of other people who go through the same thing and Twitter allows you to share your frustration, while maybe providing a few laughs for your fellow supers. One of my favorites is: @grumpysuper – the place to post your golfer/staff/weather frustrations and to help realize that you are not alone.

The next time you want to share some valuable or need to know information, better results may await on social media rather than posting on the internet forums. One thing I have learned is the turf Twitter universe is always glad to help and provide some funny relief.

A New Putting Green Story

Chuck Barber, St. Charles Country Club

PHOTO CREDITS: CHUCK BARBER

Golf putting green construction in the modern era has revolved around the USGA method. This method was developed in 1960 and has been modified from time to time as needed as our understanding of putting green construction evolves.

It is not the only method of putting green construction in rebuilding or establishing new greens. It has been the most commonly used construction method, including 15 of the 27 greens at St. Charles Country Club

I have referred to St. Charles Country Club as "Time Travel" Country Club in this publication before. Our 27 greens on 24 holes (3 practice greens included) include push-up, or native soil greens that were first established in 1924. Those same greens were all rebuilt in the late 1950's and early 1960's by Art Benson, Sr. using a variety of soils and construction methods. St. Charles Country Club then regrassed their greens in the late 1970's in response to C 15 decline, or bacterial wilt of Toronto Creeping Bentgrass on the same native soil greens. Then, in 1986 the club moved from its original location to a new plot of land north of Country Club Road in a land swap with Arthur Anderson. It was at this time the USGA method of greens construction was put in place at St. Charles. The native soil greens south of Country Club Road remained untouched and suffer from many of the ailments of native soil greens predominated by annual bluegrass (*Poa annua*).

Our 2nd green had a lot going against it. First, surface drainage was an issue because of the collar dam that prevented water from shedding off the green during rain/snow events.



The effects from winterkill was not an uncommon sight on the 2nd green in the spring.

Further, it had taken on a very sharp curve at the back of the green that prevented walking greens mower from mowing even the perimeter cut without scalping. The green had a severe back to front slope which I'm told is the Bendelow Style. Hole locations on this slope was difficult with modern speeds.

Making things worse was the green had no elevation from the lowest point where water would collect. Having putting surface at the lowest point on a small green with the walk-on/walk-off portion of the green in the wettest spot made keeping the grass healthy very difficult. Finally, the green was a scant 3700 square feet and didn't have enough size to spread traffic around. St. Charles' 2nd green was always a problem child.

In 2014 St. Charles Country Club engaged Michael Benkusky of MJB Golf Design to develop a new master plan for the golf course to marry the architecture of both sides of the property. One of the more defining features of the two, conflicting designs is the sand bunkers on the course. Our opportunity had come to enlarge the green, soften the slopes, improve the mowing lines, address surface/subsurface drainage issues and to improve the turf variety.

The decision was made to rebuild the remaining bunkers on the 2nd hole (the greenside bunkers having been completed in 2016), rebuild the 2nd green and the bunkers on the 7th green beginning September 25, 2017. This timing was not ideal, and we knew it was risky at the time. St. Charles explored the option of sodding the green. Having reviewed sod performance at putting green height from the winterkill of 2014 it was decided that seed was our best option.

The method of choice for construction eschewed the USGA method in favor of a modified root zone that utilized our existing internal drainage. In 2013 the club had engaged XGD Systems, Canada to install surface drainage in the native soil greens south of Country Club Road. We chose to rebuild the green by incorporating 4" to 6" of a 6:3:1 root zone that



Irrigation installation around the perimeter.

matched the backfill material for XGD's system. Leibold Irrigation was our construction firm that performed the rough and finish grading. St. Charles' team was responsible for site preparation, moving the irrigation components for the newly expanded green as well as installing/establishing the seed for the green and the bluegrass surround.

I thought I would have felt anxiety when the sod cutter tore in to the 2nd green on September the 25th. However, I felt relief. I knew the outcome even though the October 3rd seeding date was risky. I had the support of the Board of Directors and the membership. I had a good group of people to work with on our team and in Leibold Irrigation and I was excited about the possibilities of getting rid of a problem green. A new stand of Pure Distinction Bentgrass sounded like a dream come true, even on just one green.



Floating in our custom 6:3:1 mix.

Waupaca Sand and Solutions provided the 6:3:1 that drained like we wanted it to, it mated up with the existing XGD backfill, would provide a firmer surface and was not devoid of biology like more inert sands might be.

During the process the green was expanded from 3700 square feet to nearly 5700 square feet. Further, the slope was softened from back to front to allow for many more hole locations. The bunkers built in 2016 were located with the green reconstruction and expansion in mind so there was no need to move any of the bunkers (below).



The green was seeded to Pure Distinction on October 3rd, 2017, which was selected for its leaf texture, color and low water requirement. Our chipping green near our driving range was the source for much of the sod and plugs from the winterkill damage in 2014 and we had reestablished that green with Pure Distinction when it had served as a nursery for the last time.

I chose to use a GreenJacket cover on the green to keep soil temperatures up and to protect the seedlings from erosion if significant rainfall fell. The good news was we had observable germination in just 4 days after seeding. The bad news was that by the 16th of October nearly 9" of rain fell on the newly seeded 2nd green. Temperatures stayed warm and we were mercifully frost free. However, it was difficult to get a dry mow on the green due to the persistent cloud cover and shorter days. As winter approached the green was being mowed twice weekly at a height of .180".

The winter of 2017/2018 could be described as strange. Snow cover was spotty, temperatures were warmer than average and there was significant rainfall in February where almost 3" of rain fell on thawed or partially thawed turf. The deluge caused water to flow between seams on the two covers used for the greens protection and resulted in significant erosion (below) in the newly expanded portion of the green. It was clear as spring arrived that we would need warm, cooperative weather in 2018



A flood in February, this picture was taken on 2/20/18.

to aid in reestablishing damaged portions of the green. This is a need that would go unmet.



covered to preserve soil temperatures. I would like to thank Bob Lively of Edgewood Valley Country Club for that tip.

We slowly lowered the height from .180" to our regular mowing height of .110" and were feeding weekly with 0.1 to 0.2 pounds of Nitrogen per 1000 square feet. The green was scheduled to open on Memorial Day Weekend. However, given the lack of any growing weather



The green was reseeded in the spring and covered to combat the cold.

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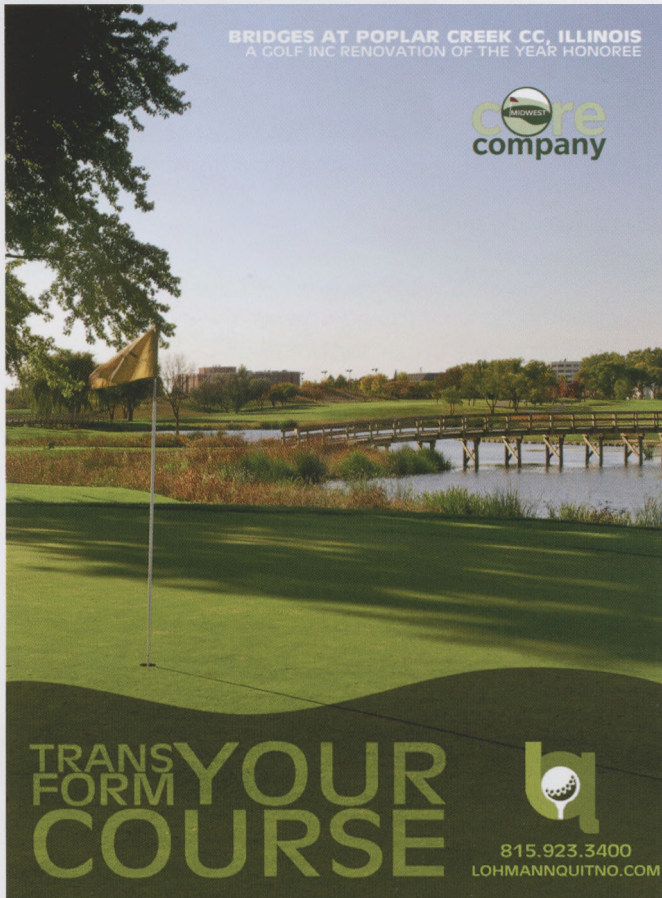
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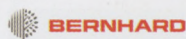
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September 12-14 – 32nd Illinois State Senior Amateur Championship at Riverside Golf Club, Corey Kuhl host superintendent.

September 14 – 18th Annual John Buck Golf Outing at Blackstone Golf Club in Marengo, IL, Andrew Perry host superintendent.

September 17 – 15th Annual Wee One Foundation Golf Event at Pine Hills Country Club in Sheboygan, WI, Rod Johnson host superintendent.

September 27 – Illinois Landscape Contractors Association's 10th Annual Turf Education Day at the Joseph Regenstein, Jr. School at the Chicago Botanic Garden in Glencoe, IL.

September 30 – Deadline to apply for the GC-SAA/Golf Digest Environmental Leaders in Golf Awards (ELGAs).

October 1 – Application deadline for GCSAA's Excel Leadership Program funded by Nufarm.

October 2 – MAGCS monthly meeting at Seven Bridges Golf Club in Woodridge, IL, Don Ferreri and Dave Gelino hosts.

October 17-19 – GIE+EXPO at the Kentucky Exposition Center in Louisville, KY.

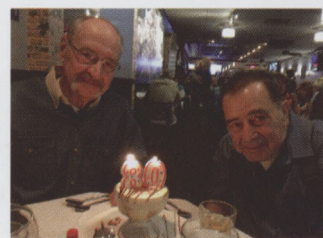
September 2018

We extend a hearty welcome to these newest MAGCS members:

Derek Anthony, Student Member, Bryn Mawr CC
Dominic Lupo, Student Member, Cog Hill Golf & CC

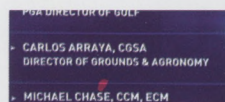
Congratulations to our 2018 MAGCS Scholarship winners! Emily Mitchell (daughter of **Brian Kimbrough**, River Forest CC), Isabel Kregel (daughter of **Matt Kregel**, The Club at Strawberry Creek), and Michael Murphy (son of **Mike Murphy**, Otterbine Barebo, Inc.) are the three talented young individuals who will reap the benefits of our association's commitment to education, and we wish them all the best in their bright futures.

A couple of our association's elder statesmen were spotted out and about last month, and for good reason. **Tom DiGuido** and **Harold Frederickson** celebrated their 80th Birthdays with dinner out with their lovelies in August, and both look like they did back before they had the "AA Retired" after their names in our roster book. Happy Birthday to both of these gentlemen, and may there be MANY more to come!



Harold Frederickson L. and Tom DiGuido R.

Great job by Carlos Arraya, CGCS and the staff and volunteers at Bellerive Country Club in hosting the 100th PGA Championship last month—and what a great finish! After a summer of hell in the St. Louis area (and just about everywhere else), the course was in remarkable condition. Oh, and double-great job by CBS on getting 50% of those letters after Carlos' name correct....



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Condolences to the family and friends of **Steve Bychowski**, superintendent at Rob Roy Golf Course in Prospect Heights, who succumbed August 27th to the pancreatic cancer he'd been battling this past year. Steve was a

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great friend to many of us in the Midwest, always with a smile on his face and cheer in his voice. And he was taken much too soon.

Things aren't looking too rosy for RoundUp and its glyphosate counterparts after last month's ruling from a California jury that awarded school groundskeeper DeWayne Johnson \$289 million in damages for allegedly causing his cancer. MUCH more to come on this, as Monsanto has stated it will appeal the decision.

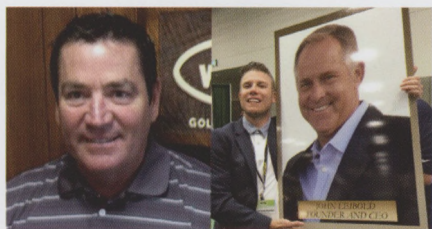


September's "Clavin-ism:" Did you know—it's a little-known fact—that Americans spend \$600 million on golf balls every year? And of those, roughly 125,000 of the dimpled spheres wind up in the water surrounding TPC Sawgrass' world-renowned 17th hole island green.

The Illinois Landscape Contractors Association (ILCA) is holding its 10th Annual Turf Education Day (TED) this month on the 27th at the Chicago Botanic Garden in Glencoe, and the program has a lot to offer our members and their staffs as well. TED offers a full-day intermediate-to-advanced overview of lawn and turfgrass care, with educational presentations by several of our industry stalwarts such as Dr. Doug Soldat of the University of Wisconsin and Dr. Kevin Frank from Michigan State University. To view the full program, or to register, go to www.ilca.net/turf-education-day.

Speaking of Turf Conferences, the Midwest Turf Clinic and Annual Meeting is slated for December 5, 2018 at Medinah Country Club. Dr. Fred Yelverton will be sharing some brand new data his team has collected on *Poa annua* as well as some management techniques for controlling weeds in native areas.

August's Golf Inc. magazine included a feature titled The Most Influential People in Golf Course Construction, which, as you may have expected, included a couple MAGCS members. Patrick Karnick, President of Wadsworth Golf Construction in Plainfield and current Golf Course Builders Association of America (GCBA) President and John Leibold, founder of Leibold Irrigation, Inc. in East Dubuque, IL were both on the Who's Who list of golf construction luminaries, and deservedly so. Congratulations to both of these MAGCS



Pat Karnick, Craig Shepherd and his hero: John Leibold.

members!

It's apparent that sports are getting more and more violent. And with that trend, we are seeing their governing bodies adapt, instilling new rules to protect their players. All you have to do is watch an NFL Preseason football game (which is only slightly less painful than watching Roseanne), or an MLB game to see evidence of this, where players now get penalized for leading with their helmets or blocking home plate. My point? Is golf in need of such rules? It is painfully obvious that violence has pervaded the game, with news stories of on-course altercations popping up just about daily. Here's a beaut that took place last month at Souther's Marsh Golf Club in Plymouth, Mass. A 47-year-old man was arrested and charged with Mayhem after biting off another man's finger during an altercation between two foursomes that began over pace of play. Mayhem.



Q: What item caused the temporary closing and sanitizing of the swimming pool at Danny Marco's club?

A: A Baby Ruth Lake.

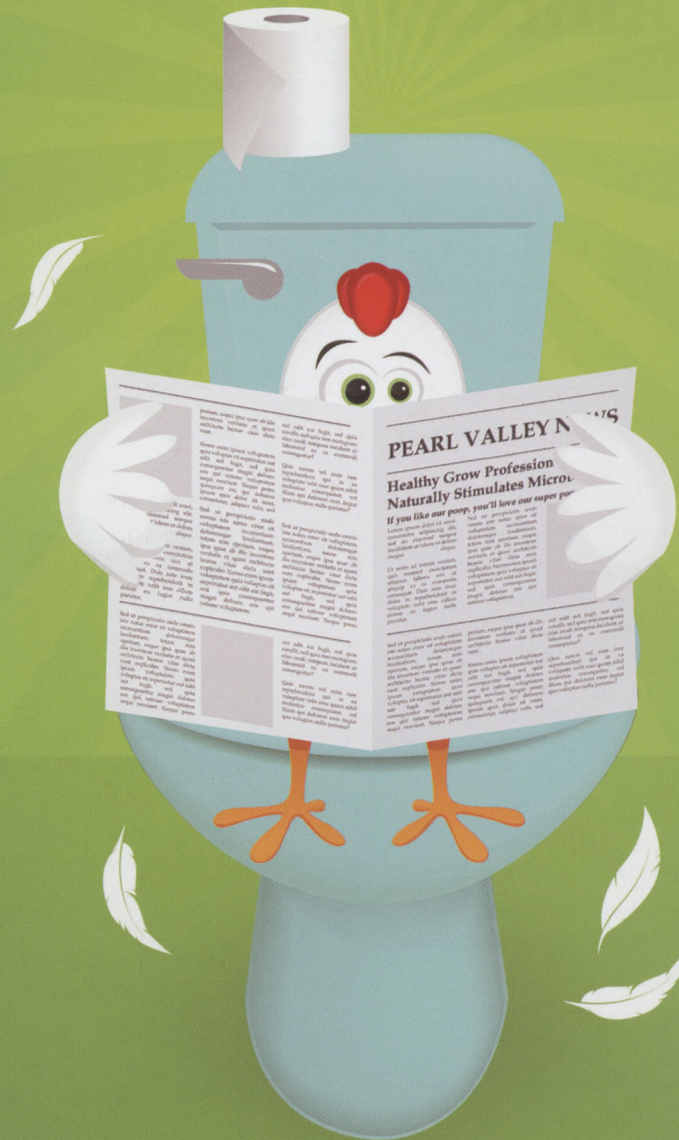


A couple deadlines are quickly approaching of which you may want to take notice. First, on September 30th, the GCSAA/Golf Digest Environ-

mental Leaders in Golf Awards applications are due. The ELGAs will feature a few new twists this year, as they have been updated to recognize more superintendents in more focused areas of environmental sustainability (interpreted as: They aren't just going to hand the thing to that guy in Georgia that wins it every stinkin' year). New for 2018 there are now four ELGAs available: Natural Resource Conservation Award, Healthy Land Stewardship Award, Communications and Outreach Award, and Innovative Conservation Award. One winner and two runners-up in each category will be recognized. Go to www.gcsaa.org and click around for the application.

Second, the deadline for the EXCEL Leadership Program is October 1st. The Program offers leadership training for personal, career, and community/industry stewardship for assistant superintendents—the future leaders in the golf course management industry. The Program features two, two-day education and training sessions plus a trip to the Golf Industry Show. The training sessions are split, with a Spring 2019 meeting at GCSAA headquarters in Lawrence, Kansas, and a Fall meeting at Nufarm in Chicagoland. To apply, you must be: Currently employed as an assistant superintendent within the U.S. or Canada; A Class C member of GCSAA; Able to participate for three full years; and Not be working for current members of the GCSAA Board of Directors or EIFG Board of Trustees, children of Nufarm or GCSAA staff, or current employees of those organizations. Go to www.gcsaa.org to apply, and good luck!

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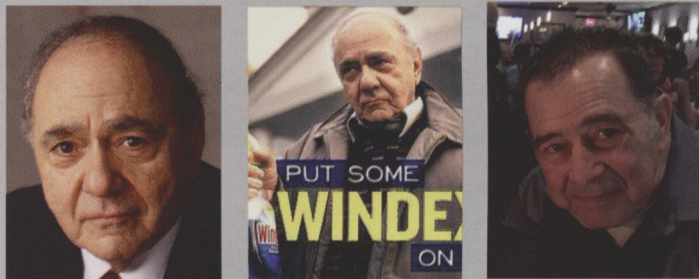
.....Bull Sheet from page 11.

OK, why not? I saw a baguette at the zoo. It was bread in captivity.

Through the efforts of its Women's task force and the LPGA Women's Network, We Are Golf has launched the #invite-HER campaign on August 29th. The nationwide campaign is aimed at encouraging male golfers to invite the women in their lives to join them in playing golf. I suspect We Are Golf is actually a group of divorce attorneys with a really smart business plan.

Before Gaile DiGuido sent me that pic of her husband with Harold Frederickson, I hadn't seen Tom in quite some time. Then it dawned on me—I HAD seen him. He was in a movie about fat Greek people at weddings, telling everyone to put Windex on whatever ailed them.

MIDWEST Doppelgänger



Michael Constantine, aka Gus Portokalos and Tom DiGuido

So just how many golf and utility carts does it take to host a Ryder Cup? For Le Golf National in France, the host of the 2018 Ryder Cup matches, the number is a staggering 550. Club Car, with the assistance of two of its Europe, Middle East and Africa distributors (EMAA), delivered an initial fleet of 350 brand new cars, which was followed up with 200 more vehicles from Tractor Hire. Oh, plus Club Car is supplying each team with seven cars featuring iconic patriotic branding. Apparently each spectator gets a car too.

Golf Witticism of the Month (from former PGA Tour player J.C. Snead): My putting is so bad I could putt it off a tabletop and leave it short, halfway down the leg."

Many thanks to Brad Legnaioli and everyone at the Highlands of Elgin for hosting last month's MAGCS meeting and Annual Golf Championship. We beat the weather by a nose, and enjoyed a super day of education and golf at a great golf facility. Also thanks to the day's sponsors, who were: **Advanced Turf Solutions, Aquatrols, Arthur Clesen, Inc., Burris Equipment Co., E-Z-GO/Cushman, Harris Golf Cars, Healthy Grow, JW Turf, Inc., Lohmann Companies, Reinders, and Syngenta.** Winners and pictures on page 15.

Equipment for Sale:

1999 Genie TMZ-34 Battery-Powered Towable Lift (platform height 34') -- \$5,000 OBO.

Rainbird Par Plus Satellites Used and in good working condition -- \$500 each. Contact Joel Purpur at Park Ridge Country Club at 630-201-6865.

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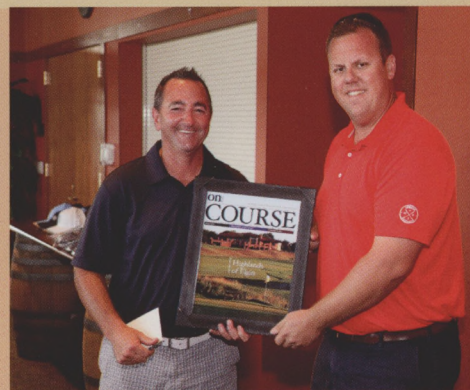
Super Senior Superintendent
Tim Davis

Assistant Champion
Wyat Byrd

Commercial Flight
Tyler Wesseldyk

Commercial Senior
Dave Radaj II

Commercial Super Senior
John Lebedevs



L to R - Tyler Wesseldyk, Tim Davis, Tommy Robinson, Dave Radaj, Wyatt Byrd. Not pictured: Dan Tully and John Lebedevs



GCSAA adds new Certificates

Shane Conroy, GCSAA Field Staff

Eight and four. That's how many certificates are available for equipment managers and assistant superintendents respectively between the Turf Equipment Technician Certificate Program (TETCP), and the Assistant Superintendent Certificate Series. The certificate series were developed to give equipment managers and assistants the platform to continue their education, and show proficiency in key areas of the industry.

The Turf Equipment Technician Certificate Program - Level 1 is a series of exams designed to demonstrate proficiency in key competency areas related to turf equipment. This certificate program is available to any and all turf equipment technicians. The program is made up of eight exams covering the key competency areas of:

- cutting units
- drivetrain systems
- electrical systems
- engine technology
- hydraulic systems
- metalworking and fabrication
- spray systems
- fundamentals of turfgrass operations

Each exam is closed book and taken online. You must have a proctor for each exam; information for proctors can be found through GCSAA.org. The exams range from 30 to 60 questions and study guides and webinars are available to help you prepare. The Turf Equipment Technician Certificate Program - Level 2, and certification for equipment managers is currently in the works and will be available soon.


The Assistant Superintendent Certificate Series is composed of certificates covering the key competency areas of:

- Principles of Golf Course Agronomy
- Principles of Golf Course Business
- Leadership and Communication
- Environmental Management/Best Management Practices

Unlike the Turf Equipment Technician Certificate Program, the Assistant Superintendent Certificate Series is an open book exam and does not require a proctor; however, like the TETCP,

the exams are taken online. Both the Principles of Golf Course Agronomy and Principles of Golf Course Business certificates are earned by completing a two-part exam. Candidates will have three hours to take the exam, with a five-minute break offered between parts one and two. The Leadership and Communication certificate, along with the Environmental Management/Best Management Practices certificate are still in development through the task group and will be available in late 2018.

I encourage each equipment manager and assistant superintendent to complete the certificates. I would also like to recognize and thank the committees and task groups who have worked tirelessly to create and continually improve the certificate series.

I would also like to encourage each of you to take advantage of the Member-Get-A-Member program. This program allows any GCSAA member to recruit a peer in the industry who is not a GCSAA member, and for their recruitment efforts, earn \$50.00 in GCSAA gift certificates. The gift certificates can be used on dues, merchandise, etc. online, or at the Golf Industry Show. The program allows the recruitment of any membership classification, so please take advantage of this program when bringing a peer, your assistant or equipment manager into the GCSAA family. 

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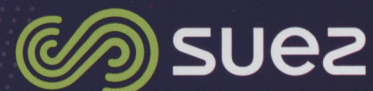


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through April and the bulk of May the club showed wide latitude in our opening day for the 2nd green.

By mid-June the green had shown remarkable progress



(above). The washout in the extension towards the back of the green was filling in quickly. Although we were 6 weeks behind our opening date the green's performance, rooting and surface had advanced enough to open before our Invitational in July.

The timeframe of the project was tight, the opening date relied on weather that never materialized and the construction methods we chose might be considered unorthodox. However, the end product is a firm, fast green that requires fewer inputs including fungicides, water and fertilizer. Our membership has been happy with a rebuilt green with more hole locations, new breaks and an added element of interest in the golf course's architecture. 



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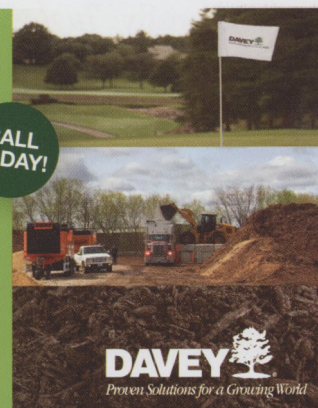
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Carya Ovata

Common: Shagbark Hickory

Family: *Juglandaceae Family*

Dave Ward and Kati Bernardy

Shagbark Hickory is native to the eastern United States and southeast Canada. The most common of the six species of hickories that grow in the Chicago region, it is an important component of the local climax woodland, the oak/hickory forest. Doing best in full sun or partial shade, shagbarks are a slow-growing tree (6" to 10" per year) and are typically found in upland woods and savannas. They are rare in low and wet woodlands where a close relative, kingnut hickory (*Carya laciniosa*), thrives.



As the name suggests, their trunks are characterized by long, peeling strips of "shaggy" bark (above) that don't occur until the tree reaches at least 30 years of age. Hickories are monoecious, (having both male and female flowers) and relatively tolerant of disease and insects. They can live for 350 years and in the right environment can grow to be over 150' tall. By comparison, shagbarks in the Chicago region top out at about 65' to 80'. Three of the main ornamental features of the tree are bright yellow fall color, the winter interest of the shaggy bark, and its buds in the spring, which when opening, resemble an exotic flower.

The scientific name of shagbark hickory, *Carya ovata*, translates literally as, "the oval nut." The word, "hickory,"

comes from the Algonquin, "pawcohiccora." Its nuts, as well as a milky drink made from the ground nuts, were an important food source for most eastern tribes of Native Americans.

In fact, shagbark hickory is a close relative of the pecan (*Carya illinoensis*), and, as the Algonquin discovered, has one of nature's most delicious nuts. But, because the tree only produces nuts in about one in four years, it is not commercially grown. Humans are not the only species to enjoy their nuts.

Red squirrels, gray squirrels, raccoons, chipmunks, mice, black bears, gray and red foxes, rabbits, and bird species such as mallards, wood ducks, bobwhites, and wild turkey are all consumers. The tree is also important to the local native insect population and the birds that feed on them. Bats frequently make a home in the shaggy bark. If you can beat the squirrels and other hickory eaters to the nuts, it takes some hard work to get to the meat, (which can be frozen for later consumption). Experts recommend waiting until the nut ripens in October and the outside coating turns black.

The wood of shagbark hickory is extremely hard, dense, and heavy. It has been used to make furniture, flooring, tool handles, wheel spokes, baseball bats, and other sporting equipment. It is also an excellent source of firewood, (of locally available wood, hickory is second only to Osage orange in BTUs per cord), and it is a favorite wood for smoking and curing meat. Prior to the advent of steel golf club shafts, shagbark hickory was the wood of choice for making golf club shafts. Not any old hickory would do:

"In 1929, when he was asked by Bobby Jones to make a

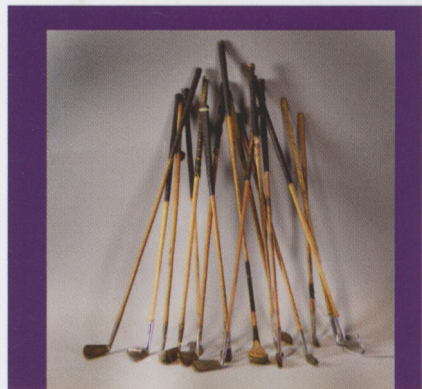


The nuts of the shagbark hickory are quite tasty if you can beat all the wild creatures to them.

duplicate of his famed Jeanie Deans driver, J. Victor East said that Jones "inspected 5,000 pieces of first grade hickory to find four shafts" that were suitable, and of these four, two met the final requirements for his drivers."

From Louisville Golf

The hickory stock for making shafts needed to have straight grain with no defects. Like today's shafts, the hickory was sorted for stiffness and flex. Twenty-five hickory shafts lathed to identical length and thickness would yield flexes that varied from "whippy" to extra stiff.



Have you ever hit a hickory shafted club? It is a different game than what we play today.

Due to shagbark hickory's importance in the history of golf—similar to persimmon which was used to make the heads of wooden clubs (featured in the July issue of *On Course*)—every golf facility should

have at least one of each growing on the property. The large tap roots and slow growth rate of hickories make them hard to find in the traditional nursery trade. They are only available from a few local growers. Surprisingly, they transplant fairly well, particularly smaller 3' to 5' trees that have been grown in containers or root bags. With a persimmon and a shagbark hickory on the course, all one would need for a thriving hickory shaft golf club business is a cow, to make leather for the grips – and oh yeah, you could use the hickory shavings to smoke the brisket. @



The leaf and flower bud of the Shagbark Hickory.

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