

ON COURSE

THE MIDWEST ASSOCIATION OF GOLF COURSE SUPERINTENDENTS

May 2010

Idlewild Country Club

Kurt Sams, CGCS

Midwest Association of Golf Course Superintendents
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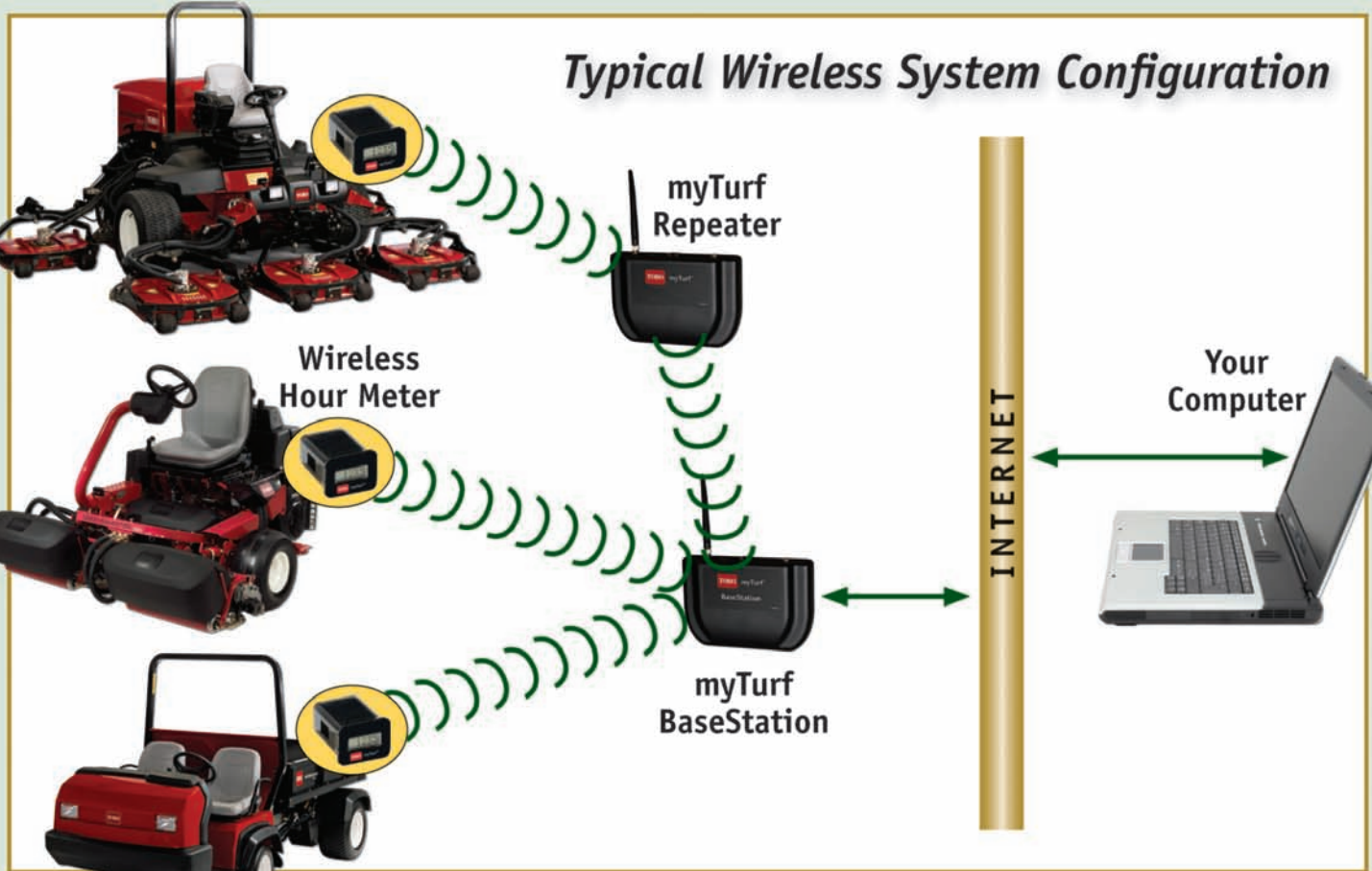
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The third hole at Idlewild, a par 3, from the tee, in early Spring.

FRONT COVER

The third hole at Idlewild Country Club from the green, the site of the 2010 ITF - MAGCS combined play day. Photo credit: Luke Cella

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The Midwest Association of Golf Course Superintendents (MAGCS), founded December 24, 1926, is a professional organization whose goals include preservation and dissemination of scientific and practical knowledge pertaining to golf turf maintenance. We endeavor to increase efficiency and economic performance while improving and enhancing the individual and collective prestige of the members.

The MAGCS member is also an environmental steward. We strive to uphold and enhance our surroundings by promoting flora and fauna in every facet in a manner that is beneficial to the general public now and in the future.

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Success... The Long and Short of It

There is something special about the busyness of spring. Most of us are hustling and bustling about trying to meet the demands of another opening day. I'm sitting here attempting to balance the time spent between new construction projects, course clean-up, tidying up around the club house, and every day mowing as the grass begins to scream out of the ground. Spring time seems to resemble every other day in the life of the golf course superintendent. In many ways 2010 is no different from any other year I guess, but how did spring get here so soon? The balancing act begins with everything at the golf course during the day, and then it quickly switches to getting home in time to drive my son to baseball practice. Later on in the evening, I move on to feeling stupid while attempting to help the kids with homework. As the days fly by during the busyness of spring, I can't help feeling that I better stop and smell the roses – in this case, apple blossoms. I also keep thinking back to the toast I made during the Midwest Hospitality event in San Diego, California. I proposed a toast... "To Our Success in 2010," and I'm afraid that it may have come off as a bit trivial and insincere. That toast was anything but insincere. In fact, my vision of success in 2010 goes deeper than you might think.

The most obvious component of our success in 2010 will be maintaining our facilities at the highest level possible. During uncertain economic times this will require us to step it up a notch throughout the entire season. Our best efforts in communicating strategies to our key constituents, increasing operating efficiencies, and forward thinking will all be a part of our success this year. Stretching staff and resources has become common place throughout our industry, and it seems to be business as usual these days.

Success in our profession is an extremely high priority, but I believe that true success in 2010 will involve a lot more than growing grass and stretching budgets. As much as I enjoy being a golf course superintendent, I'll be attempting to put equal amounts of energy into my responsibilities as a husband and a father. However, the golf course has a strange and powerful allure. It sucks us in and consumes us during the summer, when everyone else is frolicking around and loving the hot, dry weather. I am no different from anyone else in this regard, and striking that balance is a challenge. If I'm going to be honest though, "true success" in 2010 will mean that I have worked hard to schedule time for family and friends.

I believe that another key to success is taking time to recharge. For many of us, the start of the golf season signifies

a 24/7 mentality that ends up being unhealthy if you aren't careful. I think it's important to make a promise to yourself and commit to stepping away from the course if you can. Everyone is wired up different. Only you know your best method of recharging. For me, it's a quick trip up to Portage, Wisconsin, after work on Saturday. A simple 16-hour getaway can work wonders to recharge my batteries. A successful 2010 will definitely involve spending some time recharging and resting when necessary.

When it all boils down, the simple "toast to success," was intended to express my sincere wishes for the well being of the entire MAGCS membership. It is also intended to be an encouragement to everyone in the beginning of this new season. I am able to keep my passion for the profession of green keeping intact by maintaining the right level of balance in the key elements of my life. I'd like to think that I will continue to love what I do even though the economy is less than perfect for our industry. If there was ever a time when our "A" game and passion were required, it's now. Our best efforts to keep our facilities performing at a high level are in high demand. I know the MAGCS membership has the ability to bring it in 2010. I am optimistic about a great golf season, and I wish the "Best of Success" for all of you this season! **-OC**

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FEATURE I

David Marquardt, *Dirt-N-Turf Consulting*



Why “New” Greens Fail

Cubs or Sox; Bears or Packers; Bud or Miller; conservative or liberal; blonds or...well you get it. There are many easy ways to split a room and begin a debate. In the horticulture industry there's no easier way to divide a room than to spark a conversation about container or field grown nursery stock or which is better, dry or liquid nutrition.

Turf is no different. Debates will always rage about old grass varieties vs. new; new chemistries vs. old; or green vs. red. But perhaps the best way to split a room is to crank up the debate over sand vs. soil. And, like any good debate, each side will have their positive and negative points. Over time, most superintendents will experience both sides of this debate and favor the environment that they like to manage the most.

Logic tells us that it is highly unlikely that we will ever build 'new' soil greens again, which means that someday we will all find ourselves on the same side of this debate. So, since most of us will deal with sand based greens in our careers, let's look at 3 typical construction pitfalls.

Compatibility of Construction Materials

The first and least likely pitfall to occur has to do with material compatibility. More precisely, the compatibility of the sand used in the greens mix and the gravel used for drainage. (The USGA has developed recommendations for each which can be found on the Green Section website and thus will not be duplicated here.) This first picture shows what happens when proper procedures are not followed.



In this photo you can see that the greens mix has infiltrated the drainage gravel and created a layer that is difficult for water to penetrate. This is much like making a pot of coffee with one filter....no problem. Add a second or third filter and you can still make coffee, but chances are the water will overflow out the top since it will be coming in faster than the finished coffee can permeate multiple filters. In a golf green, this will result in the lower portion of the profile staying full of water and eventually going anaerobic. Gases will form, roots will come to the top in search of oxygen and decline will set in.

The sand used in this construction falls well within the USGA recommendation and the ruler photo shows that the mix, after about an inch of topdressing, was used at the proper 12" depth.



The gravel however is a different story. This course is in an area where bridging gravel is very scarce and expensive to haul. So, instead of adding an 'intermediate layer' with a choker sand/gravel that would have separated the mix from the drainage gravel, the builder simply placed the mix on the locally

(continued on next page)

available gravel. I am sure the greens functioned pretty well for a period, but 10 years worth of moving water, freezing and thawing, and aeration have finally migrated enough sand into the gravel that the layer is no longer permeable.

Several superintendents failed on this course before the problem was identified. And unfortunately, there is no quick or cheap fix for this problem. New 2" drainage lines laid above the gravel in the worst areas, along with smile drains, will alleviate some of the symptoms but will not correct the problem. The profile will drain, but much like the double coffee filter, it will take some time. Venting aeration following every major rain event is a must here as is the monitoring of soluble salts, since flushing is near impossible.

Wrong Construction Sand

Improper selection of construction sand is the 2nd most popular reason for failures in sand greens. Again, the USGA Green Section publishes recommendations for construction sands, but that doesn't mean the standards are always followed.

This lab report is from a green that was supposed to be built according to USGA recommendations. The percent of sand classified as fine to very fine is well above the 20% threshold allowed. Therein, the saturated conductivity is also below the minimum allowance of 6"/hour.

To see what this means in a more visual sense we need to look at a moisture curve of this mix.

Mat (360 deg C ash)		0.71
Standard Fractions		
Grain Size		% Retained
mm		
- 2.0	Fine Gravel	0.61
- 1.0	Very Coarse Sand	1.19
- .500	Coarse Sand	12.01
- .250	Medium Sand	53.53
- .150	Fine Sand	22.30
- .106	Very Fine Sand	5.87
- .053	Very Fine Sand	1.61
2.0mm <= 3.0% 2.0mm + 1.0mm <= 10% 0.5mm + 0.25mm >= 60% 0.15mm <= 20% 0.106mm + 0.053mm <= 5.0%		
Moisture Measurements		
Saturated Conductivity in/hr		3.0
Density		
Particle Density	g/cc	1.58
Specific Gravity	g/cc	2.60

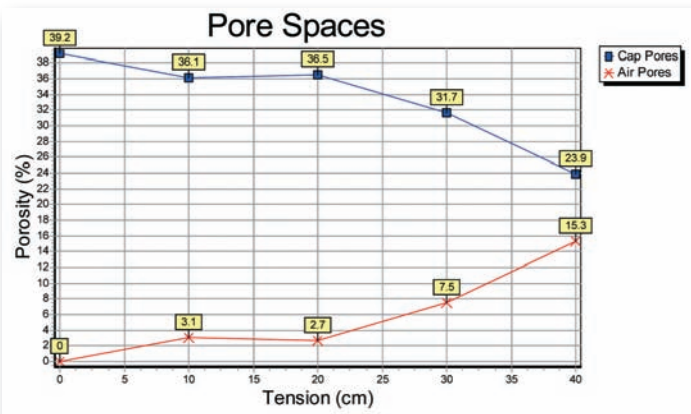
A moisture curve is developed by measuring the capillary and air-filled pore spaces at various tensions. The ideal graph would have equal amounts of capillary and air-filled pore spaces at the 30cm level, which is the depth of a 12" green. When the mix is used at the left side of **where the lines cross**, then the mix will carry too much capillary water and remain too wet. When the mix is used at a depth to the right of where the lines cross then the mix will have too much air and be classified as droughty. You can see by this graph that the lines don't even to cross at 40 cm (16") tension which would suggest that this mix will hold a great deal of water.

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A moisture curve is developed by measuring the capillary and air-filled pore spaces at various tensions.

The profile picture indicates that this green has 14" of mix even after 10 years of topdressing, which suggests that it was built at around 12" in depth. The result is that the mix is constantly wet, there is no oxygen for root development, and thus a heavy matt is developing on the surface since this is the only place where roots can survive.

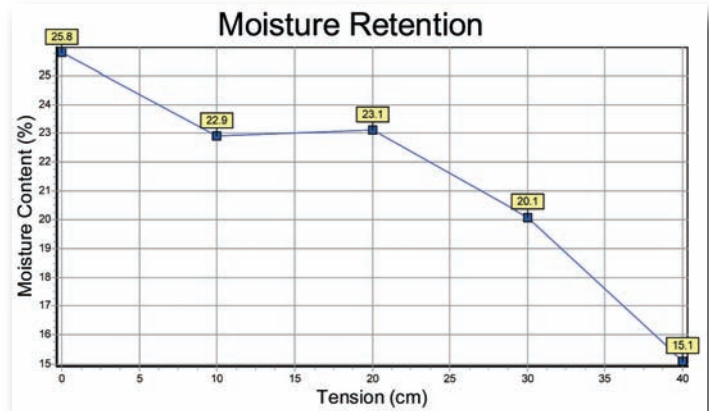


The fix for this superintendent is lots and lots of holes and lots and lots of topdressing. Since there will be no way to correct the lower half of the profile, the superintendent should concentrate on diluting and removing as much of the matt that has developed and provide a more fitting sand to fill aerification holes. Over time this method will alter the moisture curve in the top 6" and form a suitable surface media.

Improper Mix Depth

Above all else, using greens mixes at depths that are inaccurate is by far the #1 pitfall we see in sand based greens construction. This is slightly different than the use of the wrong sand, but many of the physical principles are the same. Two scenarios are most common, but before we get to them it is important to understand the basic principle of capillary and air-filled pore space. Over simplified, capillary water is the water that is held on the surface of the media particles being either sand or organic matter. A simple illustration is to roll up a paper towel and submerge one end into a glass of water. The water climbing up the roll is capillary water. In a sand based, perched water table green, we would hope that the capillary water would 'wick' back up the profile to provide hydration to the turf. When capillary pore space and water is lacking, greens are droughty and additional surface water will be required. Again, this is vastly over simplified but a necessary understanding before we move on. (I would suggest that it should also be fodder for future study.)

The first mix depth pitfall is the use of sand based mixes at the depth of 12" when the physical properties dictate otherwise. In other words, when a moisture curve (illustrated earlier) shows that capillary pore space will raise water 14", then the mix should either be redesigned or used at the 14" depth. If the mix is used at 12" as called for in the USGA recommendations, then the excess 'pull' or 'wick' of water will result in water filling pore space that should be occupied by air. The result of this mismatch will be very shallow rooting and/or black layer. Tension table moisture content readings should also be taken to further determine if adequate moisture holding capacity exists to support germination.



The second, and perhaps the most common mistake on sand based greens, is using the mix to shape the green surface. Recently a client took the time to probe a few of their greens to measure the depths of mix. The most consistent green measured, averaged between 15" and 20" in depth. The least consistent green measured, varied from 10" to as much as 24". Again, employing the principles we have thus far discussed, it is easy to see how parts of these greens will stay far too wet, while others will be continuously droughty. Wetting agents may help some, but the reality is that the irrigation heads need to be turned off and all moisture controlled by hand watering. This long-term expense and management nightmare is avoided by making sure that the gravel bed is properly shaped and accepted prior to adding the greens mix. Suffice it to say that those who shape greens out of mix have never had to manage a sand based environment.

Yes, someday most of us will deal with sand based greens and it is nice to know that when we do, we have some tools to work with. While superintendents may not choose to understand all of the physics that are involved with construction materials, (and only a few have been discussed) they should gain familiarity with the construction and testing methods that are available. I would further suggest that when looking at job opportunities, growers get detailed information about the methods and material testing that was employed during construction. It might keep them from making a terrible mistake.

Lastly; definitely Cubs, Bears and Bud! The rest is up for discussion. **-OC**

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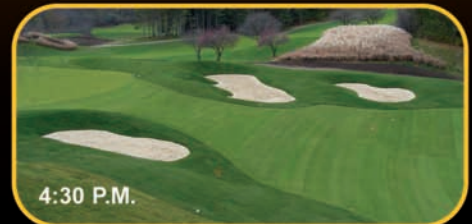
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Take Care of Yourself...Literally

As we travel down the road of life, we often encounter speed bumps along the way. It is how we handle these challenges that affect our life and future.

When I was asked by my good friend, Bob Kohlstedt, to write an article for *On Course*, I told him I would, and then I thought about the many topics I could discuss. After deliberating for over a month, I realized that Bob has been on the board for over two years, and yet I have never read any of his musings.

I thought about the topics that I could write about and whether I should proceed and write an article. I have to be honest. I was somewhat embarrassed about my level of participation within the association. I am the only salesman for a small privately owned company and call on about 100 turf customers, and I also do the purchasing and distribution. It doesn't leave a whole lot of extra time to attend monthly meetings or be involved on a committee. Only after thinking about the many friends, customers, and the competitors for whom I have respect and regard did I make up my mind and proceed with my thoughts.

What should I write about? The topics of fertilizer pricing, the different controlled release products that are available, and the life and times of a salesman crossed my mind, but I decided to write about something we all could relate to – our health.

I turned 50 a few years ago. As the surprised guest at a birthday party, I was the recipient of many gifts and many barbs about being "over the hill." I distinctly remember thinking to myself: what in the heck are they talking about? I was in good health; I could toss bags of fertilizer with no problem; and I still enjoyed tossing back a few Miller Lites with my friends. The next day, as I was going toward town for some groceries, I saw someone pointing and laughing behind me. When we got to a four-way stop, I got out of my vehicle and asked the driver behind me what was so funny. When I realized that my sisters had put a metallic bumper sticker on my car that read, "honk, driver just turned fifty," I returned to it sheepishly.

The next year the Golf Industry show was in Orlando. When I returned home, the next night was the Super Bowl.

After going to a party, my heart was pounding. I was afraid that I was having a heart attack. I drove myself to the hospital to learn I had an upper respiratory infection and a bad case of acid reflux.

It gets better. The next year the show was in New Orleans. The Friday night before we were to leave I walked out to my vehicle and slipped on some "black ice." While I was sliding, my right foot hit a protruding chunk of ice and my right leg broke in four different places. My foot was turned 90 degrees to the right after the fall. I endured surgery, the insertion of two screws to keep the damaged ligaments in place, and over four months of therapy before I was finally able to walk normally.

But nothing could prepare me for this past January. I was scheduled to have surgery to remove the two screws from my ankle. Once again my heart had been pounding over the Holiday Season. I didn't like my current doctor. Based on recommendations from several of my friends, I decided to make a change. It turns out that it might have been the best thing that I have ever done and possibly saved my life.

The new doctor scheduled several tests and asked me to postpone the surgery on my ankle. He called me the night of my CT scan and asked me if I was sitting down. He then informed me that they had discovered an aneurysm right outside my heart. He asked me to come into the hospital and admit myself so that they could check some more things out and have the cardiologists and surgeons review my results.

After that call you could have knocked me off my chair with a feather. I sat there for about an hour with a myriad of thoughts and emotions running through my mind. I finally got enough strength and resolve to call my mother and family to tell them what was going on. It was a tough thing for me to digest.

The purpose of writing this is not only about me. It's about all of us. We all need to think about our health and make sure we are doing the right things to confront life's speed bumps.

(continued on page 11)

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We are in a "now" business. When the season is here we are in go time. It seems as if the winter season for retooling and getting away is shrinking by the year. The time for thinking about our health and welfare becomes secondary. I beseech each and every member of our association to think about this and reflect on how it affects you.

Have you had the necessary tests to insure everything is fine? Are you content with your doctor's care? Is your perception of the way you feel an accurate reflection of your health? Have you put off going to a physician because of the pressures of work or because you don't want to? I cannot stress enough that answering these questions can make all the difference in the world.

There is an abundance of information on the Internet. WebMD.com is an excellent source on conditions, medications, and general health concerns. Many of the larger Clinics and Hospitals, such as Mayo's, Cleveland, and Loyola, have web sites that explain different surgeries and procedures.

Talk to family and friends about any concerns and questions you may have. Although this might be difficult for you, I have found it to be a source of information and comfort. It's how I found my orthopedic surgeon, my family practitioner, and the cardio surgeon who will repair my aneurysm. Just last Friday, the doctor who did the surgery on my leg told me that he had been diagnosed with the same thoracic aneurysm that

I face. He went to school with the surgeon who did his surgery and who will do mine. He talked about what he endured and what I will face. I can't explain in words what that meant and how it put me at ease with what I face.

We have all known friends and fellow members who have faced difficult times and decisions with their health. Rather than putting it off due to fear, uncertainty, or work constraints, please make it a focal part of your life and make the necessary choices.

If there is anything you take away from this article, I hope it will be these three things:

Take time for your health. Having a yearly physical and seeing the proper physician when you are under the weather is the least you can do for yourself.

Take time for yourself. We are in a stressful industry and some days we try to pour 10 hours into an 8-hour day. Take fifteen or twenty minutes, no matter how hard that might be, when you feel overburdened and catch your breath. I started that routine this year, and I can tell you it works wonders.

Take time for your family and friends. Let them know how much they mean to you. Remember tomorrow is not given, nor is it promised.

Ok, Bob, now it's your turn.... **-OC**



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Kurt Sams, CGCS -N-



"Call me Kurt". From the second email I received from Kurt Sams, CGCS, at Idlewild Country Club, I could tell a lot about Kurt's nature. He isn't a flashy guy. He doesn't demand the spotlight. He is just a laid back individual from Ohio that loves his job. And he is pretty good at it.

Idlewild Country Club, located in Flossmoor, celebrated its Centennial in 2008. Although, Idlewild is a par 72, it does contain five par 5s and five par 3s. Butterfield Creek flows throughout Idlewild giving it some scenic views but also giving challenges to the golfers and to Kurt and his staff. The creek does flood on occasion and can leave some turf covered in water. Adding to the water features at Idlewild are two ponds and a pool. As you move through the grounds, you notice there are many memorial trees and benches in place. Kurt considers being a steward of the environment a must. Idlewild has continued to maintain its Audubon Certification. Yearly they add and replace birdhouses. They also have some areas of native prairie and a variety of trees. Although the course sits surrounded by houses and right along the Dixie highway, you might as well be in the middle of the quiet countryside.

As you pull up to the maintenance shop you are greeted by Brutus, Kurt's Lab. And if naming his Lab Brutus didn't give it away that he was an Ohio State guy, the decals all over his truck would. Kurt was born in Ohio and went to Ohio State University (OSU), originally for engineering. After two years, he decided that engineering wasn't the right path for him. Kurt then met with Dr. Danneberger, thus starting his career in turf. Later that day, he talked to Carl Wittenaur, CGCS at Brookside Golf and



The Sams, Kurt and his wife Vanessa with Hunter, Nolan and Lexy.

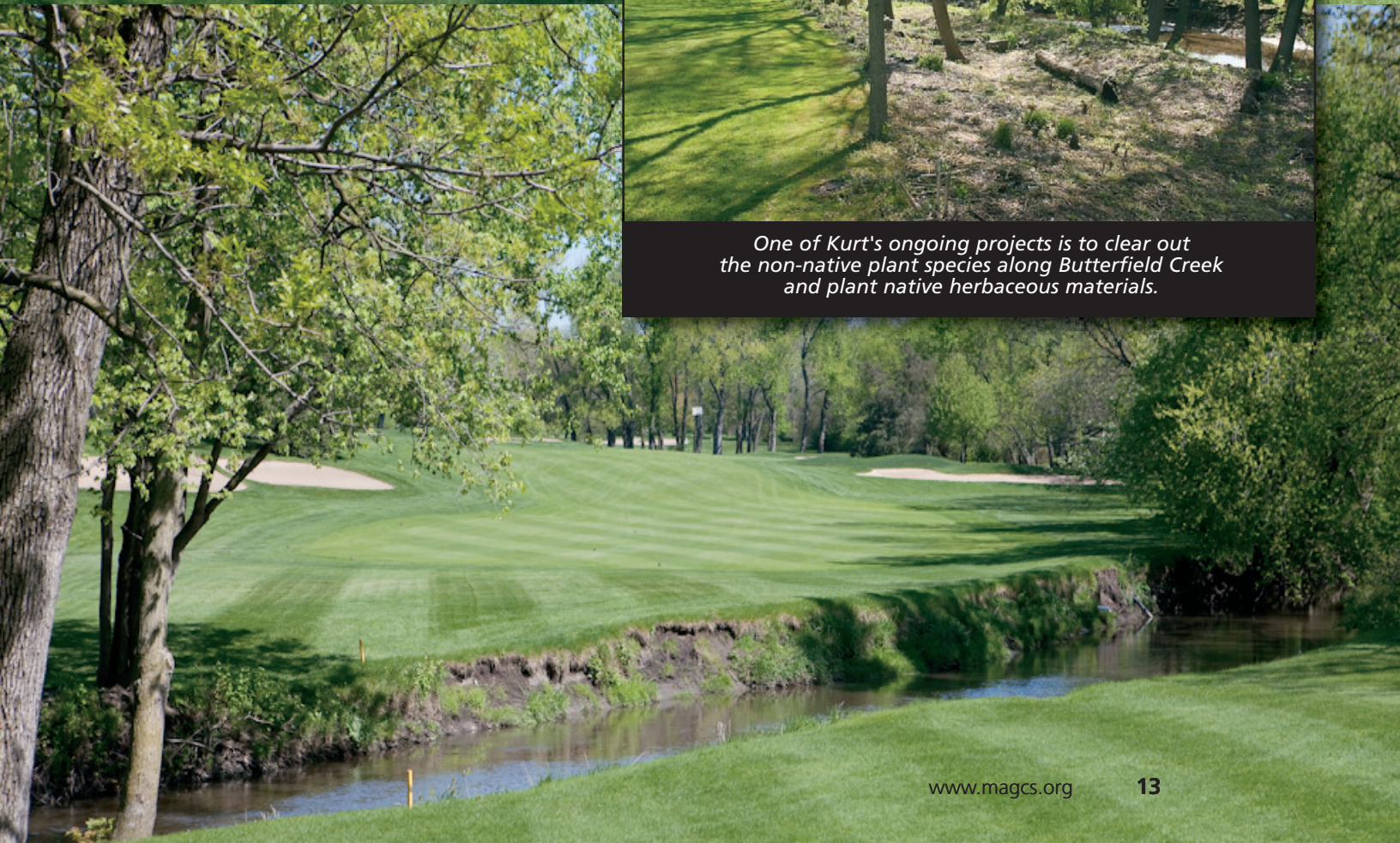
Country Club in Dublin, Ohio and started work the next day. Kurt credits Carl with giving him a great start in his career. After graduating from Ohio State, Kurt ventured out to the New York Metropolitan area. From New York, Kurt made his way to Chicago and to Idlewild and has been happy ever since.

During Kurt's tenure at Idlewild he has made many changes and improvements to the grounds. Year by year, Kurt and his staff have renovated bunkers and added and moved tees. They have also expanded a few of the greens and improved the overall aesthetics of the course, all in-house. But true to Kurt's nature, he takes little credit for it. He insists that the credit go to his crew and to his assistant Dion Pearce. He said that he is only steering the boat, they are doing all the paddling.

When Kurt isn't running the helm of Idlewild or cheering for OSU, he loves golfing and spending time with his family. Kurt is joined at home by his wife Vanessa, his sons Hunter (11) and Nolan (5), his daughter Lexy (7), and lastly by Brutus. Kurt loves to spend time with his kids doing their sports and activities. He is happy that they are now old enough to start golfing, giving him a chance to share golf with his family. Golf has been very important in Kurt's life. He met his wife, Vanessa, at the Conference Show in Orlando. **-OC**



One of Kurt's ongoing projects is to clear out the non-native plant species along Butterfield Creek and plant native herbaceous materials.





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MIDWEST BREEZES

Charles Anfield, CGCS, *Heritage Bluffs Golf Course*



The West Winds

I called a few guys from the “west” to find out what’s going on in our western MAGCS territory. Everyone was cautiously optimistic about the upcoming season.

Dan Sterr, Vice President of the MAGCS and Superintendent of Stonebridge Country Club said his course came out of the winter in great shape. Dan said there was not much snow mold or winter dessication damage to speak of. His season started out with a little surprise after he charged his irrigation system and he found a leak in a 12” pipe leading from his pump house. Ever the optimist, Dan commented, “I’m glad I found it now instead of in July”. He found a rust hole, 2 inches below a flange in the steel pipe. He thinks the pipe is either just old or may be prematurely deteriorated possibly from his practice of acid injecting. In order to work around the 90 degree fittings and make the repair, he had to dig a sizable hole by contracting out a backhoe. Welcome to 2010.

Dan said he has been staggering bringing on some of his staff back as the grass has begun greening up and the mowing has started. He expects his crew to be fully staffed by May 1.

Dan got an early start on his greens aerification completing the task on April 5. In other project work and part of the “new design mentality”, the Club had Hollebeak Construction

reshape a fairway bunker complex on hole #7. Dennis Wise, from Fazio Design came out last fall and reduced the fairway bunker complex from a 75 yard long waste bunker to a smaller bunker with mounding placed closer to the fairway. He’ll be back this spring to look at the final shaping. Future plans call for reducing the current 37 acres of fairway to less fairway area in an effort to help reduce maintenance and fungicide costs.

I called up Brad Legnaioli, CGCS. He is the Golf Course Superintendent for the City of Elgin. He oversees Golf Course Maintenance at Bowes Creek Country Club, Wing Park Golf Club and the Highlands of Elgin. Brad said he was busy. Ya think! He said he manages to get around to each course every day, although he spends a lot of time “on the road”.

Bowes Creek Country Club is a new upscale public course that opened last October. (Hey Brad, how about a future MAGCS Meeting site?) It’s a Rick Jacobsen design featuring his unique high face bunkers with the fescue “eyebrows”. The Highlands course has undergone an expansion. Nine holes were re-built in 2002 on the old Spartan Meadows site and ten new holes opened last July that are built around an old quarry on site. The nine hole Wing Park, which opened over 102 years ago

(continued on next page)

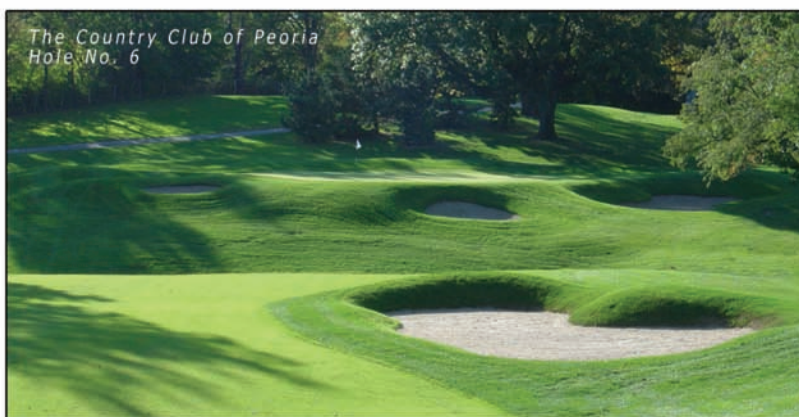


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with its bluegrass fairways and low green fees continues to click along with a loyal local following. Brad said he was very encouraged by the early season golfer numbers on all the courses and is expecting a good year. Brad is looking to get frequent flyer miles for his car and he wears running shoes as part of his daily uniform.

Dan Murray, CGCS of Settlers Hill Golf Course has also seen some good golfer numbers turning out this spring. He opened the course earlier than normal, in the 3rd week of March. For his project work, he expects to continue on his "in house" bunker project work. He is removing sand, re-shaping the sub grade, installing drainage, adding Sand Trapper bunker liners and adding new sand. Dan has observed less sand washing and better overall drainage on the bunkers they have completed work on.

Dan has had to make some budget cuts like everyone else. The ever effervescent Dan Murray: "we've had to trim some costs like everyone else but what are you going to do. Doom and gloom won't get you nothing. We're just trying to be efficient in everything we do". Dan hires a number of retirees to do most of his mowing. I enjoy the retired guys; they've got a great work ethic, except on the cold days". Don't worry Dan; warmer days are ahead of us. Keep up the good work.

Tim Anderson, CGCS, MG, Past MAGCS President (that's a mouthful) from Naperville Country Club also had his course up and running with the favorable March weather. Tim was concerned with the expectations of some of the Members with an early opening. He was not budgeted to bring on his staff this early. Tim commented "the normal guys who play early in the season understand we will not have all the bunkers raked or the ball washers out and all of the other accessories available".

He found that there were members playing, who were normally still out of town this time of year. "I don't think some members are travelling as much and they are more available to play their own course". It took some education on his part to explain that there was nothing wrong and they were following a specific budgeted plan. Tim had to call some of his staff to come in to work earlier than normal that lived in Chicago. Many of his staff are still in Mexico. He's glad to see people playing golf and using the club. "I think it's a pent up demand from the long winter".


Tim and I spoke about the "new mentality" of the business of golf course maintenance. All operations are looking to reduce costs. This translates into a reduction in maintenance practices. The buzz words we "kicked around" were cash flow and sustainability. Our job is to give our board members ideas and practices best suited to the individual club on where we can make those cuts. Before we do that, expectations need to change and this may take a generation or more before it can work. We both agree the "shoulder seasons" of March, April, September and October will determine the fiscal strength of the season. It has become very obvious now that the weather can make or break our golf seasons.

I don't often get to chat with a Master Greenkeeper. Tim said the BIGGA (British and International Greenkeepers Association) certification was not that much more difficult to complete than his CGCS certification with the GCSAA. Tim felt that his professional development is very important to his members perception of his connections and commitment to the golf industry.

That's what's blowing in from the west. **-OC**



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Wes Danielewicz, Executive Director



TETA Vendor Day

On March 12, 2010, the Turf Equipment Technicians Association (TETA) held its fifth annual Vendor Day. You're probably asking, what is Vendor Day? Vendor Day began as a day when technicians visited with a variety of vendors and learned about their products. It's a chance to see and learn about new products. These products can help make a technician's job better, easier, safer, and more efficient. We have always invited golf course superintendents to attend along with their technicians. For the last two years, TETA has opened Vendor Day to everyone associated with the turf industry. Today Vendor Day is also a form of fundraising for our association. Why does TETA have Vendor Day?

The Turf Equipment Technicians Association is funded primarily by the dues it collects from its members. Additional revenue comes from employment opportunity postings and, on occasion, a 50/50 Raffle at our monthly meetings. In 2009, for the first time in the association's history, rather than increase dues, TETA began to charge for monthly seminars. This was done to offset costs such as the mailings, coffee, donuts, beverages, lunch and handouts. Yes, there are times that we have a sponsor for lunch, but that does not always cover expenses. As I am writing this, our membership is down this year by about 10%.

This year's Vendor Day couldn't have come at a better time and place. It was held at the DuPage Airport Authority in an airplane hangar. This venue gave us over 20,000 square feet of space under one roof, more than we have ever had. This unique space made it a very interesting event. The airport equipment and a Cessna Citation jet on display created an unusual ambiance. Almost 30 vendors participated in the event. Attendance was over 70, the largest ever, with superintendents, technicians, various municipalities and vendors who

came by to see what it was about. The participating vendors were equipment distributors, dealers, rental companies, turf chemical suppliers, lubricants, hydraulic supply companies, auto parts companies, fuel suppliers, battery suppliers, and a lot more.

Thanks to Mark Doles (airport director) our host, Tony Kalina (superintendent) and Josh Zartman (technician) of Prairie Landing Golf Club for co-hosting the event. Thanks to Matt Passantino of Stonebridge Country Club for his diligence in making it all come together. Special thanks to our TETA volunteers, Tina, Dottie, Pete Passantino, and Wes Danielewicz, Jr. for making it an enjoyable day for everyone. We must not forget to thank the infamous "Chef Anton" from Riverside Roasters, for cooking us up one great feast.

To all those who attended this year, including the vendors, thank you for making Vendor Day 2010 a great success. Mark your calendars for March 4, 2011, for next year's event. By the way, the TETA board is looking to change the name of the event. If anyone has any ideas or suggestions, send me an email to wes@teta-online.com. Thanks again. **-OC**



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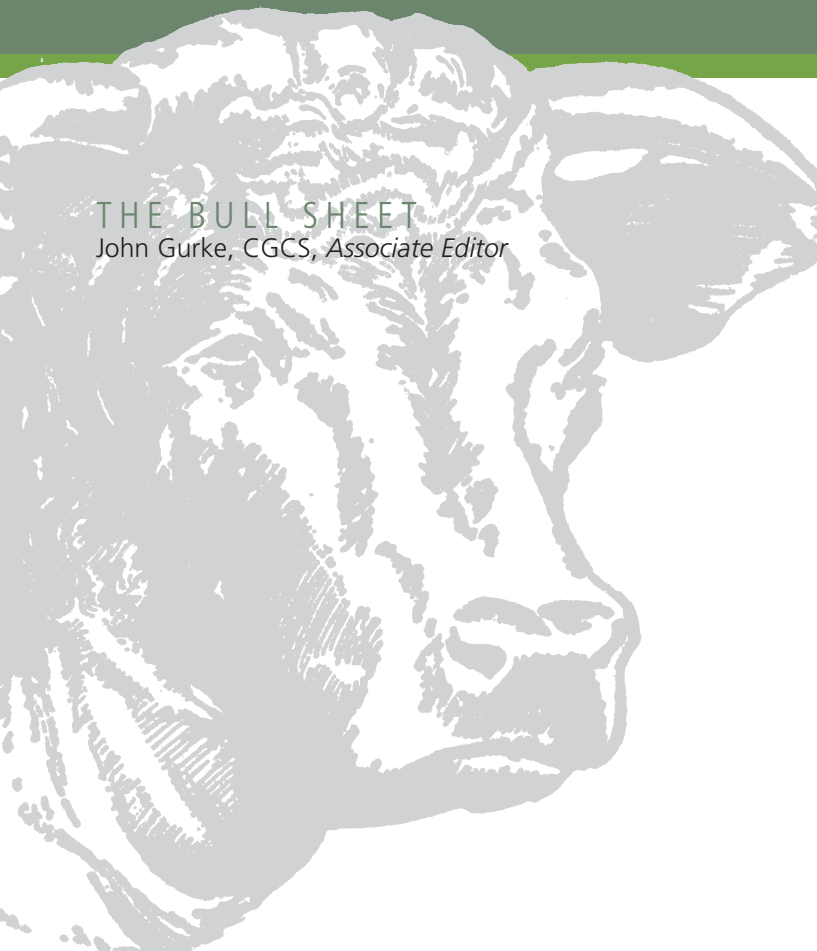
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THE BULL SHEET
John Gurke, CGCS, Associate Editor

May 2010

DATES TO REMEMBER

- May 11-13 – International Golf Course Equipment Managers Association's (IGCEMAA) Virtual Trade Show online at a computer near you.
.....
- May 17 – ITF/MAGCS Spring Golf Day at Idlewild Country Club in Flossmoor, IL, **Kurt Sams, CGCS** host.
.....
- May 28 – Deadline for applications for the MAGCS scholarships. More if you read on.
.....
- June 5 – Sunshine Through Golf Foundation's Second Annual Golf Marathon at the Zigfield Troy Golf Course in Woodridge, IL, **Dennis Troy** host.
.....
- June 14 – MAGCS monthly meeting at Elgin Country Club, **Phil Zeinert, CGCS** host.
.....
- June 29 – 10th Annual John Buck Memorial Golf Outing at Crystal Woods Golf Club in Woodstock, IL.
.....
- July 5-11 – The 2010 John Deere Classic at TPC Deere Run in Silvis, IL,
.....
- July 17 – Annual MAGCS Kane County Cougars Game and Family Picnic at Elfstrom Field in Geneva, IL.
.....
- July 22-24 – Illinois Women's Open State Championship of Golf at Mistwood Golf Club in Romeoville, IL, **Ben Kelnhofer** host.
.....
- July 30 – Deadline for submissions for TurfNet's 2011 "Superintendent's Best Friend Calendar" presented by BASF, the original golf course dog calendar. If your best friend is not a dog, disregard.
.....
- August 2-7 – 108th Western Amateur Championship at Skokie Country Club in Glencoe, IL, **Don Cross, CGCS** host.
.....
- August 21, 2010 – ITF's World's Largest Closest to the Flagstick Contest, visit bigpar3.com
.....
- August 31 – Deadline for the call for presentations at the 2011 GCSAA Education Conference in conjunction with the Golf Industry Show in Orlando, FL.
.....

The MAGCS has 3 \$2,000 scholarships available to the children or grandchildren of MAGCS members who are outstanding students and have demonstrated strong potential for future success. You can download an application at magcs.org, but hurry—deadline for applications is May 28th at 5:00 p.m.

.....
Congratulations to Nazira and **Larry Collins** on the birth of their beautiful baby daughter Teagan Martha last month.



Teagan Martha Collins

.....
Also congratulations to **Jeff VerCautren** and Rich Harvest Farms on their recent designation as a "Certified Audubon Cooperative Sanctuary" through the Audubon Cooperative

(continued on page 21)

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Sanctuary Program for Golf Courses, an Audubon international program. Rich Harvest is the 47th course in Illinois and the 753rd in the world to receive the honor.

CDGA recently announced that it has chosen Thor Guard to provide real-time weather information to its 400 member facilities. Thor Guard Weather—the company’s proprietary weather information service—delivers broadcast-quality local, regional, and national radar images via the internet in five-minute increments, and will be available to golfers and staff on computers located at each CDGA facility.

Congratulations to MAGCS members **Scott Goniwiecha**, the new superintendent at the Glen Club, and to **Scott Hillyard** who is now superintendent at Hawthorn Woods Country Club.

Also with a new address change is MAGCS member Aaron Johnsen, formerly with Spectrum Technologies. Aaron has accepted a position with Olds Seed Solutions, a WinField Solutions company as a Professional Products Advisor, supporting turfgrass seed, fertilizer, and crop protection chemicals in Minnesota and Northwest Wisconsin.

The ITF recently sent all superintendent members a letter introducing their newest event to help raise money for turf research and to promote our profession. The **BigPar3** will be the **World’s Largest Closest to the Flagstick Contest** and will target the end user of our your fine turf, the golfer. The ITF is asking for your participation on August 21, 2010. Please step up and offer your course, a few hours of your day (great job for your assistant and staff) and help promote our profession. The ITF plans to submit to the Guinness Book of World Records at the end of the event. Check out bigpar3.com

If you attended the Golf Industry Show in San Diego, you can now take advantage of a unique follow-up tool that allows you to contact exhibitors whose booths you visited while there. Go to www.golfindustryshow.com to view your detailed trade show information, and see contact information along with links to the exhibitors’ web sites.

In a somewhat related matter, GCSAA announces its Call for Presentations for the 2011 Orlando Education Conference. To submit your ideas for presentations, or to deliver one yourself, fill out the Call for Presentations form at gcsaa.org. And while you’re there you can also check out GCSAA TV’s “Optimized Land Use in Chicago” presentation featuring **Tony Kalina** and Prairie Landing Golf Club. Whoever said the camera adds ten pounds? I think it’s much more.

Finally! It’s here! DuPont’s new, updated Weeviltrak.com is up and running for superintendents to keep current with all things Weevil (as in Annual Bluegrass Weevil), including tips on comparing their size so that you can choose which is the lesser of two weevils. Get it? See what I did there?

Neuroscientists at the University of Queensland in Brisbane, Australia have discovered that the scent of fresh-cut grass triggers two sections of the brain—the amygdale which deals with emotions and the hippocampus which deals with memory. As a result, sniffing your golf course can help relieve stress and boost your memory. I wonder if they studied what the smell of dead grass triggers.

Green Care for Troops, a program of Project EverGreen, is a nationwide effort that connects green industry professionals with local military families to provide landscape assistance while troops are serving away from home. The program already has thousands of military families and numerous industry professionals and volunteers signed up, and welcomes more. To help, go to www.projectevergreen.com and click the Green Care for Troops box.

The Longshore Club Park Golf Course in Westport, Conn. has an answer for all the courses worldwide that are suffering through cutbacks in labor as a result of the economic downturn. To assist with course cleanup in the spring, anywhere from 30 to 50 local residents simply come out with their own rakes and start cleaning. Superintendent Dan Rackliffe, CGCS has been there 23 years, and doesn’t know how long before that the trend began—probably during that other economic downturn in the 20’s.



Photo courtesy of the Westport Patch.

Members of the Staples High School boys golf team rake debris from the fairways at Longshore Club Park Golf Course in Westport, Conn.

MAGCS offers its condolences to **Bob Kronn, Sr.** and **Bob Kronn, Jr.** on the loss of Richard Kronn, the brother of Bob Sr. and uncle of Bob, Jr. in March. Our sympathies also go out to **John Turner** and his family on the passing of his father William Turner on April 10th at the age of 87. And sincere condolences to **Mike Handrich, CGCS** of Racine Country Club and his family on the passing of daughter Holly M. Verdiguél in April after a courageous battle with cancer.

Let’s all wish happy trails to our friend **Keith Rincker**, CDGA’s Manager of Turfgrass Research and Website Coordinator as he heads off to greener pastures—literally. Keith will be leaving on June 14th to join Dr. Brian Diers at the University of Illinois to work on soybeans, and more specifically to map the resistance of brown stem rot. His work for the next four years will obviously be much different than what he has been doing for us at Golf House, but he is confident he is up for the challenge. To fill his ample shoes, **Tom Sibicky** has been

(continued on page 23)

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hired, and will train under Keith until his departure. Congratulations and best of luck to you, Keith and Tom!



Keith Rincker

The MAGCS March monthly meeting was held at Midwest Golf House on the 16th with a full house in attendance. Featured speaker Dr. Peter Dernoeden of the University of Maryland presented several interesting topics, including his research on "The Nature of Dollar Spot and its Management", "Managing Greens Under Stress," and "Tenacity: A New Herbicide for Golf Courses." Also making presentations were CDGA's **Dr. Derek Settle** who spoke on disease control of Waitea and Fairy Ring, and Keith Rincker who enlightened us on, among other things, biorationals such as Rhapsody, EcoGuard, and Dew Cure. It was a great day of learning, and we thank everyone who had a hand in making it possible. Oh, and if you're looking to see the mugs of Derek and Keith in print, check out the March Golfdom on page 12. Dr. D. and Keith are shown flanking **Dan Dinelli** during a boat cruise of the San Diego harbor during the Golf Industry Show.

You can also catch **Mark Petitgoue, Paul Bastron** and **Brian Baker** taking a technology test drive on the trade show floor on page 60 of April's *GCM*. If you want.

Congratulations to **Josh Therrien** and his new bride Andrea on their recent nuptials. Josh is assistant superintendent at St. Charles Country Club (**Jim Keith, CGCS** superintendent), which is also where the reception was held and some crazy dancing MAGCS-style took place according to our sources. Best wishes to you two in your long lives together.



Josh is the one in the tux and probably the last time he will wear a flower on his lapel.

Belated congratulations to **Brad Chamra**, formerly at the Beth Page State Park Golf Courses who is now assistant superintendent at Arrowhead Golf Club (**Mike Mumper** superintendent).

CLASSIFIEDS

Equipment For Sale: Another way to ease your budgets is to take a look at these fabulous offerings from your fellow superintendents:

- Park Ridge Country Club has the following items on the block: 1 Jacobsen LF 3400 Fairway Mower, year 2000, 3916 hours, asking \$4,900 OBO; 1 Ryan GA-60 Aerifier, year 2000, 261 hours, asking \$2,500 OBO; 1 Ford 250C Diesel Tractor with torque converter transmission, 1650 hours, asking \$8,000 OBO; 1 Ford 231 Tractor, 7137 hours, asking \$3,500 OBO. Call **Nick Marfise** at 708-224-8829 for details.
- Lincolnshire Country Club is selling a Tycrop MH400 Material Handler with only 20 hours of use, in excellent condition, with conveyor belt attachment included. Give **Brian Racette** or Harry a call at 708-672-5709 for information.
- A first-time-ever for this magazine. White Pines Golf Course has a Package Sewage Treatment Plant for sale. This is a membrane bioreactor package treatment plant with ultraviolet disinfection system and a 10,000-gallon per day capacity. It is a compact alternative to septic systems and aeration/settlement ponds. Equipment is housed in a modular concrete building with a 30'x8' footprint, and is manufactured by Enviroquip of Austin, Texas. It was originally installed in the fall of 2005 at a cost of \$300,000. The asking price is \$150,000. Contact **Steve Partyka** at 630-768-0906 or email him at partykasteve@yahoo.com.
- Bryn Mawr Country Club has the following items for sale: 1990 Ryan GA-60 aerifier with low hours; 1993 MP1100 160-gallon Toro sprayer with computer controls; 2005 electric Salsco greens rollers with 1392 hours. All items are in very good condition and are ready to use. Call Brian at 847-677-4112.
- Indian Hill Club offers these beauties for sale: 1993-ish Jacobsen Turfcut 422D with 72" deck, runs well; a 1997 3-wheel Cushman truckster 27HP water-cooled engine with GA-60 controls mounted; a 1992 Ryan GA-60 aerifier that runs well; and a Turfcut F12D Belt Topdresser with a 6' chevron belt. All offers considered and likely accepted. Call Dave at 847-528-6656. **-OC**



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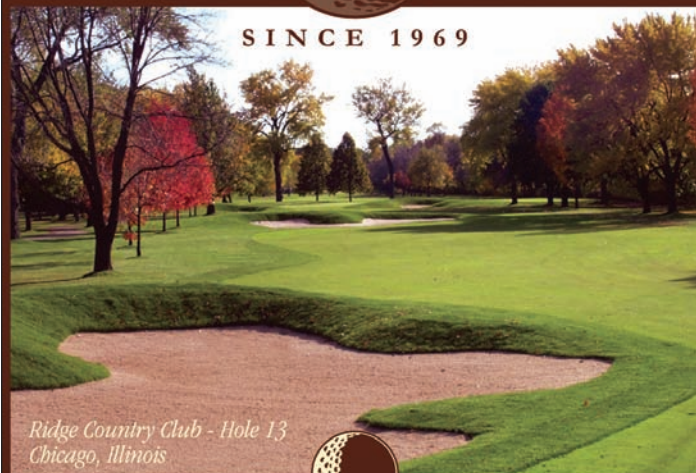
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People of Our Industry

I love this industry and am so enthusiastic about continuing to learn more and more. Despite my eagerness, I like to consider myself a laid-back guy, and I think my friends would agree. As a new kid on the block, I enjoy hearing the stories of the "Good Old Days" from superintendents, vendors, members, and even owners. This is an integral part of the learning process. Many of these stories are so incredible that it's hard to believe them myself. Yet, no matter how far-fetched the stories can get over time, they always bring a smile to my face (especially because one day I will be the one telling them!).

When reminiscing with others about the "Good Old Days" it always comes down to the people in the story. Turf industry folks can relate to these types of experiences. I think it is the people in our industry that make our jobs so meaningful and fun. We relate to each other, and we care when something doesn't work out for another individual in our field.

Recently I was at an assistants' workshop at Exmoor Country Club and had the opportunity to share stories with some of my colleagues. Not only did we talk about past golf seasons, but we also shared how much we have learned from our current superintendents. It doesn't stop there, though, because we have all worked at a number of different courses around the U.S. Sharing in the knowledge from this small group made me start to think out of the box a little bit. Yes we mow greens, tees, fairways, and so on, but it is the small details that the golfer often notices. We use these stories to break the ice layer off our outer shell to show who we really are. And most importantly, as assistants we finally got to make some stories of our own.

Other professionals in the turf industry agree: we are extremely fortunate compared to other industries. We can count on one another for help. As an example of our camaraderie: if one of your greens, tees, or fairways were problematic, you would have no trouble receiving advice and assistance from another superintendent or plant pathologist. This could save your job if the problem were severe enough. In other industries, that kind of help and friendship does not always go hand in hand. What other profession can you think of where you give a helping hand to the competition down the street?



People who have been in the industry for a long time can remember never missing a superintendents meeting. Now it seems the camaraderie from the "Good Old Days" is at risk. Whether it is due to the great pressures of changing expectations and demands, or fear of leaving the course for more than a few hours, or just wanting to spend more time with your family, our unique social network is in jeopardy. We new kids on the block learn as much from these social experiences as we did from our text books. It's important for us to have mentors not

only on the course, but off the course as well. Let's face it, these relationships help us to be the mentors for tomorrow's generation. I chose this industry because I saw a great potential to meet distinguished people and have a tight group of friends that I could always count on. I was fortunate to grow up around this industry. I was exposed at a young age to hard-working, committed, and fun individuals.

Some final thoughts in these tough and ever-changing times: no matter where you stand in the turf industry it is important to stay positive. Our attitudes and philosophies define who we are. In times like this we need each other's help more than ever to succeed. To build for a great future we need to think about our unique pasts going back decades and decades, even centuries at this point! Equally important is sharing that positive attitude with the people around you. It's the joking around and the smiling faces that other people like to see, because they reflect how deep our passion is for this industry. After all, in our industry, it is the people that make it great (and of course our stories!). **-OC**

EDUCATION RECAP

Charles Anfield, CGCS, *Heritage Bluffs Golf Course*



Dr. Dernoeden Highlights the March Meeting

The MAGCS March Meeting was held at the Golf House in Lemont. Dr. Peter Dernoeden was the featured Speaker. Dr. Dernoeden is currently teaching and doing his research at the University of Maryland. He led off the day making his presentation "The Nature of Dollar Spot and Its Management: Research Meets Reality". Just when I thought I knew it all, there were a lot of interesting tidbits of new information from Dr. Dernoeden's research.

Back in the mid 1990's dollar spot became a larger disease factor when courses started seeding bentgrass instead of ryegrass. Dollar spot is the most economically important turfgrass disease worldwide. The pathogen was described by F. T. Bennett in the U.K. in 1937. *Sclerotinia homeocarpa* was named after the size of U.S. Silver Dollar.

What we know about the pathogen:

- It is spread by mycelium in infected tissue.
- It just seems to "come and go", May through December.
- There are no effective predictive models. We have rough estimates based on temperature and humidity.
- Most research has been confined to resistance management.
- All cultural and bio control has occurred over the last 15 years.

Maryland research has been focused on fairways. This is where most of the bentgrass acreage is and where most of the money for disease control is spent. Even most of the resistant disease cultivars still get the disease, just later. Maryland measured dew formation and duration, humidity, temperature, leaf wetness. Dr. Dernoeden has concluded that dollar spot seems to follow "epidemic outbreaks", although he's not sure why.

- The first outbreak is slight pressure. This normally occurs mid to late May when average temperatures are in the mid 60's.
- The second outbreak occurs late July and early August. This is more severe and lasts longer.



Dr. Peter Dernoeden

- The third outbreak occurs in mid October. This outbreak hits fast and hard and has a short life.

Dr. Dernoeden's basic approach to disease management is a three pronged attack.

CULTURAL

NTEP Trials are a good source of information in which to select disease resistant varieties to inter seed with. He cautions to only select trials for comparisons with "like" growing conditions. Different trials perform differently in different locations. Disease resistance is relative. It does not apply immunity.

Nitrogen is the only nutrient that impacts the disease. Phosphorous and Potassium have no effect. This is true in all soil conditions and under all fertility levels. He has found that

no nitrogen source has proven statistically to be better than the others. There is no correlation of soil microbial activity to dollar spot control. Spoon feeding has provided benefits, keep doing it. It is good agronomic practice. To "pump up" the fertility to grow out of the disease with large doses of nitrogen is not a good idea. Keep applications at a pound of N per thousand or less. He has found numerous benefits to applications of ammonium sulfate. There is an increased burn potential but a few minutes of water following an application will alleviate the problem. He recommends up to 3 lb. per year to reap the maximum rewards of the product.

Irrigation studies have concluded that when you water doesn't really matter during the first epidemic. If you have dry soil during the second epidemic this will increase the dollar spots damage potential. Light and frequent applications of irrigation have shown to decrease dollar spot and improve the performance of fungicides.

Early morning mowing has shown to reduce dollar spot and may be the most effective method of decreasing the severity of the disease. Just mowing alone will reduce disease by 25%. The ability of dollar spot control has been increased with mowing prior to fungicide applications by reducing severity by 55-65%.

BIO CONTROL

Bio control has not proven to be an effective form of disease control.

CHEMICAL CONTROL

Fungicides are an expensive form of control, but they do work. Be aware of potential resistance by using the same class of fungicide repeatedly. Use a rotational program. Spray volumes don't matter for control.

Denoeden's Tips for the Right Way to Treat Dollar Spot Control

- Use 1-2 gallons of water volume per thousand.
- Fine droplets provide better control.
- Mow before you spray.
- Keep soil moist prior to second epidemic.
- Spoon feeding helps control disease.
- Early spring fungicide applications can delay onset of disease in northern climates.

- Always rotate fungicides.
- Use Chlorothalonil or Emerald in between high risk products.
- Always tank mix for curative control.
- Low fungicide rates are fine during low disease pressure. Increase rates when pressure is higher.

The second presentation featured our own Keith Rinker, MS of the CDGA, on Fungicide Programming for Dollar Spot Control.

Keith's presentation featured results from his own 2008/2009 research at the CDGA Golf House and on site trials at North Shore Country Club and Coyote Run Golf Course. Keith compared several spray programs based on cost, disease control between contacts and systemic and overall effectiveness.

The Programs:

- CDGA Bookend Program
- Curative Program with Daconil
- No Treatments
- Daconil 14 Day Program
- Three Way 21 Day Program

Some highlights:

- Coyote Run being a public course had higher disease tolerance levels
- Effectiveness varied between programs
- Costs per day were compared

A bio rational product called dew cure was used at North Shore C.C. The concept is to "wick away" the dew and help

(continued on next page)

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prevent disease. There were some positive benefits of the program by being able to reduce the number of chemical inputs but was not proven to provide acceptable standards compared to the "norm" of a normal chemical spray program.

Dr. Dernoeden made a presentation on some research he has made on the newer herbicide Tenacity.

Tenacity is a reduced risk herbicide. It's made from the Bottle Brush plant. Its mode of action is foliar and root uptake. It results in the bleaching of the plant leaves and works by preventing the carotenoid synthesis in the plant. It's a "niche" product mainly used in seed beds for spring seeding to prevent crabgrass, nutsedge and pigweed. It's safe for Kentucky bluegrass, fescue and perennial rye. **It kills bentgrass.**

It needs to be applied twice and is slow acting. Most damage is observed after the second application.

Use on golf courses may include:

- To remove Bent in rough areas of Kentucky bluegrass
- To remove Bent in fairways of Kentucky bluegrass
- Controls Nimblewill
- Controls Yellow Nutsedge
- Controls Crabgrass
- For populations where the bentgrass contamination is very low (less than 10-15%)

Be sure to accurately assess the amount of bentgrass in the area spraying. This stuff does work. If too much bentgrass is in site, it may be better to re-sod.

Dr. Dernoeden came back after lunch for his presentation on "Managing Greens under Summer Stress".

The primary loss of turf during the summer is premature senescence. Typically this is a result of a poor growing environment, improper irrigation and mechanical injury. Typically 50% of the turf samples he handles are negative in pathogens. Wet soil, which rapidly kills roots, is the number one culprit in failed greens.

Summer Decline Complex Management Techniques:

- Stop grooming for green speed
- Syringe or hand water to reduce stress and put the water where you need it
- Use fans
- Spoon feed on 5-7 day intervals with urea
- Apply Signature/Daconil or other phosphate products (This has proven to provide some protection against mechanical damage)

Wet soil, which rapidly kills roots, is the number one culprit in failed greens. Too much water kills more greens than being too dry. Wet soils absorb and retain more heat and have lower levels of oxygen. Signs and symptoms include: wet wilt, scalding, black layer, moss and algae. The wet soil accelerates the root loss. Mechanical damage which causes bruising and scalping often follows when mowing wet turf. This is often underestimated in the amount of damage inflicted. A good indicator of wet greens is deep pitch marks. Often, chlorosis or yellowing is also an indicator of wet greens. If soil temperatures of greater than 86 degrees are sustained, roots will turn brown, shorten and turf decline is eminent.

Wet wilt is the inability of the plant to take up water despite plenty of water in the soil. This also promotes stomate

closure which inhibits the ability of the plant to cool itself. This effectively shuts down the plant retarding respiration and the plant suffocates.

Syringing has been proven to cool turf plants. Applications should be around 3-5 minutes per green. This opens the stomata's and promotes cooling within the plant. Fans have proven to be very successful in conjunction with syringing. Spiking and solid tinning promotes drying and improves aeration.

Scalding is a direct kill of the plant. This occurs when the turf is inundated with water on a hot sunny day. This often happens from a thunder storm. Get the water off with squeegees ASAP. There is also the possibility of mower injury due to the standing water. Avoid mowing with standing water and high temperatures.

Thatch management can help prevent "puffy" turf conditions. The thatch can get wet from rain and hold onto moisture during humid periods. The plants get elongated and grow adventitious roots. The thatch swells, mowers sink into the thatch and scalping occurs. Urea at .15 lb/N/M every 14 days helps mitigate scalping. Rooting in summer is influenced by making holes. Proper aeration will promote good drainage. Use a wide diameter core in the spring and fall. Heavy top-dressing with sand should make to fill the holes. Aerate in the summer with smaller tines 3-4 times. Continue with a light frequent topdressing program.

The "Basics" of Summer Bentgrass Decline Complex Management:

- Increase mowing heights
- Decrease mowing frequency
- If wet, make holes, get oxygen in soil
- Don't mow when soil is saturated.
- Improved drainage
- Spoon feed
- Communicate and maintain support Team

Dr. Derek Settle of the CDGA completed the very informative educational day with his presentation on "Control of Common Diseases of Chicago Greens – Waitea and Fairy Ring".

Waitea affects annual bluegrass during periods of cool and wet conditions. Mostly it is a cosmetic disease typically seen here in the Chicago area in May and June. Derek conducted trials at Biltmore country Club with Brian Thompson, CGCS and has had good control using Insignia, Banner, Bayleton, Triton and Prostar. He showed slides of the disease but he best describes it as looking like your turf got spray painted with yellow paint in a 12 inch diameter circle.

Fairy ring is the other disease Derek has been working with which he thinks favors drier weather for development. It can become more than a cosmetic problem as the rings may grow mushrooms and become hydrophobic. He worked with Dan Marco, CGCS at Ruth Lake Country Club in 2009 for his trial work. He had good success with different curative treatments using DMI's. He recommends aerifying to promote water infiltration and to disrupt the pathogen. He also recommends using spray applications of urea to mask the symptoms. He believes the disease is caused by low fertility situations.

Another great day of education put on by the MAGCS Education Committee to help you in your job. **-OC**



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