



# THE NEWSLETTER

March 2018

of the **Golf Course Superintendents Association of New England, Inc.**

Sponsors and administrators of the Troll-Dickinson Scholarship Fund – Awarded yearly to deserving Turf Management Students.

*Thoughts From Your Executive Director by Don Hearn*



*UMass Breakfast Attendees*

March is the month for many that serves as the “kick-off” to the upcoming season. For most, the Providence Show is the catalyst for this but this year the plan was thrown off the tracks. The early part of the week was pleasant with many attending the event and then the forecast called for a major storm. This thinned the crowd as many had to get home to make plans for snow removal, fueling the generator, and take care of all that was needed before the storm hit. What added to the negative situation was the fact that some superintendents had staff return for the season to begin the spring clean-up. Because of the storm, attendance the last day had a less than usual amount of attendees. The representatives I spoke with were understanding and, without exception, were positive with their comments about early week attendance and enthusiasm expressed by those visiting their booths. The annual UMass Breakfast, sponsored by the Alumni Turf Group (ATG) was well attended and provided an opportunity to catch up with others who we may not have seen since the prior year.



*Bob Dembek, left and Kevin Doyle*

**Bob Dembek** and I attended the annual Chapter Leaders/Executives Symposium at GCSAA Headquarters in Lawrence, Kansas March 13-14. As always, this trip is a highlight of the year for me and is an educational trip for the board member who attends.

We're informed about the various programs that GCSAA offers and the support it provides to members and affiliated chapters such as ours. We also learn from other attendees and we share our successes and experiences to understand what has worked and learn more about what may help continue or create chapter success.

After opening remarks from CEO **Rhett Evans**, we heard about the disasters that hit Florida, Texas and California and how

GCSAA responded to help our members who needed a helping hand moving forward with their lives. While GCSAA can't act as an insurance company, it was able to direct donations sent by members and chapters to the GCSAA relief fund to those needing items such as food, clothing and other essentials that we take for granted when times are good.

The BMP programming was discussed by **Mark Johnson**, Director of Environmental Programs. To me, this is one of the most exciting programs GCSAA has made available to us. The GCSA of New England and the GCSA of Cape Cod are working jointly to create a state BMP manual for members in Massachusetts.

We were updated on the upcoming National Golf Day that will be held in Washington, DC at the end of April and government affairs and the Grassroots Ambassador Program by **Chaval McKeel**, Director of Government Affairs and **Mike Lee**, Manager of Government Affairs.

Updates on Assistant Superintendent and Equipment Manager Certificates were explained by **Diana Kern**, Manager of External Education and Date Resources.

The Melrose Leadership Program was highlighted by **Mischia Wright**, Associate Director of the EIFG.

In my position as Executive Director, **Leann Cooper**, Senior Manager of Chapter Services, is my main link to the GCSAA. She explained how she works with the chapters and what is required from chapters to help make the process work.

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## Thoughts From Your Executive Director by Don Hearn



environment and create more interest in our profession and industry and the game of golf.

We were treated to short presentations by GCSAA Field Representatives and Chapter representatives detailing programs they had created and offering ideas about topics of interest.

One of the events I look most forward to is the presentation of speakers who cap off the last day of the symposium. This year we had two presenters. **Henry DeLozier**, Principal of Global Golf Advisors and **Chad Carden**, Founder of The Carden Group. Both made exciting presentations that got the juices flowing and caused me to evaluate where I position myself in the universe (I'm OK) and very importantly, where I stand in my relations with others (I'm OK with this also).

While I always leave this event with more knowledge than I came with, this year was the most inspired I've been. One of the many points addressed by **Henry DeLozier** was "You can't do more with less." We've all been told or have heard "You have to do more with less." Henry made some examples to prove his point and you could see the heads nodding up and down as attendees were taking it all in. Recently I read a thought by a superintendent who stated the following:

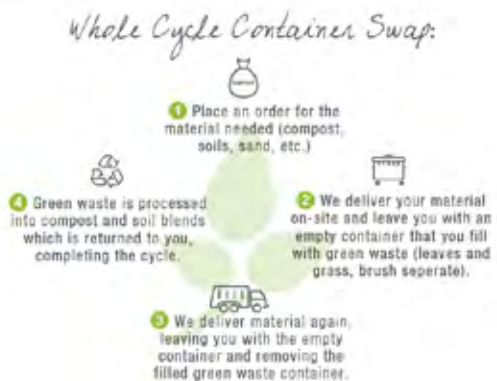
### *"Do Less with Less"*

*I've been in a lot of offices over the last three years, and you meet plenty of guys trying to do "more with less." YOU CAN'T DO MORE WITH LESS. You can't spray more acres with less fungicide, you can't get more jobs done on a weekend with less staff and you can't cut more grass with less mowers. You will do less with less. Fight for the budget items you need to keep intact.*



Since 1984, Agresource Inc. has been a leader in finding beneficial uses for organic residuals including: municipal biosolids, leaf and yard waste, food processing residuals and food scraps. We consider these wastes as valuable resources that are used in a variety of products from compost to engineered soil blends. Compost and engineered soils are used in large scale construction, residential landscape, sports fields and golf course applications. In the fall of 2016 Agresource opened its sports turf and golf course materials division AGREsport. AGREsport manufactures and distributes topdressing sand, bunker sand, divot mixes, root zone mixes and custom soil blends throughout the North East.

In addition to compost, soils and sands Agresource is proud to roll out Whole Cycle. Whole Cycle is the newest division of Agresource made possible by the acquisition of an industry partner who specializes in organic waste collection and recycling. A culmination of over 30 years of experience, Whole Cycle can provide management strategies for green waste and food waste. The goal of Whole Cycle is to complete the cycle by collecting, hauling, processing, manufacturing and distributing finished material back to the original generator of the waste. The finished product in the form of compost or compost amended soil can be used back on the property where it was collected, creating a sustainable approach to waste/grounds management.



Whole Cycle can provide services to its recycling partners in customized ways to meet your needs; providing products and recycling services. The Whole Cycle Swap program utilizes roll off containers (10, 15, 20, 30 yds) to deliver finished material and pick up green waste (leaves, grass, brush). A roll off container filled with an ordered product will be delivered to your site, once unloaded the empty container is available to be filled with green waste. When the container is full, place another order for the material that is needed. The material is unloaded, leaving the empty container and collecting the container filled with green waste to be hauled and processed at one of our facilities. The material you are receiving back will contain recycled/processed materials, completing the whole cycle. Reduce your carbon footprint (and haul charge) by using one truck instead of two to deliver product and remove waste.

Get the entire club involved and reduce food waste going to landfill by utilizing Whole Cycle for food waste removal. Clean 48 or 64 gallon food waste totes will be placed at your facility, filled by your staff and removed on a weekly basis by our fleet of collection trucks. Food scraps can go directly into our compost production or sent to anaerobic digestion where it will be turned into clean energy. You can complete the cycle by using compost or compost amended soils at your site.

Whole Cycle will help you set up a program that meets your specific needs and spread the word to your club management, membership and surrounding community about the sustainable approach that is being implemented on your property. For questions and more details about the Whole Cycle approach reach out to Dave Harding ([dharding@agresourceinc.com](mailto:dharding@agresourceinc.com) 978-904-1203), Mike Carignan ([mcarignan@agresourceinc.com](mailto:mcarignan@agresourceinc.com) 978-270-9132), Kevin Crawford ([kcrawford@agresourceinc.com](mailto:kcrawford@agresourceinc.com) 978-992-7706) or Dana Spaulding ([dspaulding@agresourceinc.com](mailto:dspaulding@agresourceinc.com) 978-992-2795). We are excited about the opportunity to work together and all be a part of...Whole Cycle.



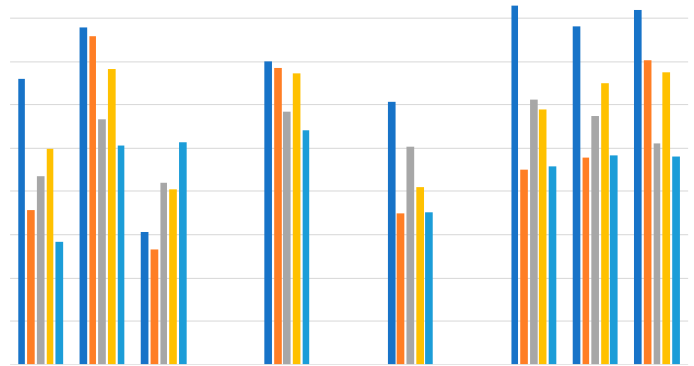
# SDHI Fungicide Resistance in Dollar Spot

Geunhwa Jung, Ph.D., Jay Popko, M.S., and Jaemin Lee Stockbridge School of Agriculture

Dollar spot, caused by the ascomycete fungus *Sclerotinia homoeocarpa*, is the most frequently targeted and economically important turfgrass disease on New England golf courses. Cultural practices (removal of dew and guttation, adequate fertilization and irrigation, rolling, thatch reduction, etc.) are effective, but fungicide applications are necessary for acceptable control of dollar spot on intensely managed areas. Resistance to benzimidazole, demethylation inhibitor, and dicarboximide classes in *S. homoeocarpa* has previously been reported. Boscalid, the first registered succinate dehydrogenase inhibitor (SDHI) fungicide on turfgrass, has been widely applied to control dollar spot due to its excellent control in situations of resistance to the three aforementioned fungicide classes. The recent addition of four new SDHI active ingredients (isofetamid, fluopyram, fluxapyroxad, penthiopyrad) will make the SDHI class one of the largest classes on the turfgrass market.

In June 2017, a dollar spot sample was sent from a New England golf course to test for fungicide resistance. The sample was assayed for in vitro sensitivity to five SDHIs and also sequenced for mutations in the SDHI target genes. This was the first confirmed sample from a golf course with SDHI resistance in the United States using both molecular and in vitro detection methods. The golf course contained 3 different genetic mutations conferring differential resistance responses to the five SDHIs. The resistant strains were exhibiting higher resistance than SDHI resistant strains collected in Japan by Dr. Jung during a fungicide resistance monitoring study in 2016. The Japanese resistant strains contained two different target gene mutations and also caused differential SDHI resistance. A scientific paper reporting this discovery and the resistance mechanisms has been accepted in the Plant Disease for publication. Furthermore, we have found that the SDHI class did not exhibit cross-resistance (resistance to all active ingredients in a fungicide class) like the DMI or the dicarboximide fungicide classes. Multiple studies in other fungal crop pathogens have reported that SDHI active ingredients are differently influenced by a position of the target gene mutation. In general terms, SDHI resistance is very likely to be more complex than any fungicide resistance case experienced in turfgrass. We have studied two locations and found more target gene mutations to the SDHI class than the benzimidazole, dicarboximide and DMI classes combined.

For example, one of the Japanese strains exhibited high resistance to boscalid, moderate resistance to penthiopyrad and fluxapyroxad, weak resistance to isofetamid, and a hypersensitive response to fluopyram (Figure 1). The hypersensitivity (or negative cross-resistance) means that the mutant strain is more susceptible to fluopyram than wild-type/normal strain using Petri dish assays. In contrast, one strain from the New England site exhibited high resistance to boscalid, fluxapyroxad and penthiopyrad, moderate resistance to isofetamid, and



**Figure 1.** Resistance profiles of the different target gene mutations (eight groups) found in SDHI resistant strains from USA and Japan. SDHI sensitive reference isolates (3<sup>rd</sup> group from left) are shown for comparison (Popko et al., 2018 accepted in Plant Disease).

weak resistance to fluopyram. In addition, more mutations in each resistant population were discovered and are still under molecular investigation. Furthermore, while we are seeing differences in the laboratory, the implications of these laboratory observations have not been tested in a real-life situation. We will be conducting field experiments funded by New England Regional Turfgrass Foundation and chemical companies on the New England site to examine the following objectives: 1) Field efficacy evaluating all SDHI active ingredients, non-SDHI fungicide and fungicide rotation options, 2) Population dynamics (changes in SDHI resistance) will be monitored by in vitro sensitivity assays, and 3) *S. homoeocarpa* strains sampled in the population dynamics study will be used to develop a molecular diagnostic assay by detecting mutations to the SDHI target genes that correlate to field resistance.

We are working to learn more about SDHI field resistance. Can SDHI fungicides can be used on sites where resistance caused by different mutations have developed? If you suspect dollar spot control issues, contact us ([jpopko@umass.edu](mailto:jpopko@umass.edu) / [jung@umass.edu](mailto:jung@umass.edu)) to schedule resistance testing. Review your fungicide application schedule to make sure that fungicide classes are being rotated throughout the season, especially if you use combination products frequently. Include multi-site mode of action (MOA) fungicides (chlorothalonil or fluazinam) in tank mixes with single-site MOA fungicide applications (benzimidazole, dicarboximide, DMI, or SDHI) during periods of high disease pressure. If you historically struggle with dollar spot, review your cultural practices to see if there are changes that can be made. We have seen reductions of average 25-50% less in dollar spot from fairway rolling over the season. While this is not acceptable control level, it is significantly less dollar spot fungicides that will need to control and can also reduce the risk of resistance development.



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## Who Was Will Rogers *By Don Hearn*

For some of us, the name Will Rogers is nothing more than a name that, when asked, 'Do you know who Will Rogers was?' might cause a pause to reach into the deep parts of our memory to provide the answer. For me, I knew the name but didn't know anything about him other than he was well known for his witty sayings. If you read further you'll know more about a personality that was overflowing with talent, wit and common sense. I point this out so that when you read some of what he had to say, you'll have an appreciation for the person who said them.

William Penn Adair "Will" Rogers (November 4, 1879 – August 15, 1935) was a stage and motion picture actor, vaudeville performer, American cowboy, humorist, newspaper columnist, and social commentator from Oklahoma. Of mixed race, he identified as Cherokee, as his parents did.

Known as "Oklahoma's Favorite Son", Rogers was born to a prominent Cherokee family in Indian Territory (now part of Oklahoma). As an entertainer and humorist, he traveled around the world three times, made 71 movies (50 silent films and 21 "talkies"), and wrote more than 4,000 nationally syndicated newspaper columns.

By the mid-1930s, the American people adored Rogers. He was the leading political wit of his time and was the highest paid

Hollywood film star. Rogers died in 1935 with aviator Wiley Post, when their small airplane crashed in northern Alaska.

Rogers's vaudeville rope act led to success in the Ziegfeld Follies, which in turn led to the first of his many movie contracts. His 1920s-syndicated newspaper column and his radio appearances increased his visibility and popularity. Rogers crusaded for aviation expansion and provided Americans with first-hand accounts of his world travels. His earthy anecdotes and folksy style allowed him to poke fun at gangsters, Prohibition, politicians, government programs, and a host of other controversial topics in a way that was appreciated by a national audience, with no one offended. His aphorisms, couched in humorous terms, were widely quoted: "I am not a member of an organized political party. I am a Democrat." Another widely quoted Will Rogers comment was "I don't make jokes. I just watch the government and report the facts."

Rogers even provided an epigram on his most famous epigram: When I die, my epitaph, or whatever you call those signs on gravestones, is going to read: *"I joked about every prominent man of my time, but I never met a man I didnt [sic] like." I am so proud of that, I can hardly wait to die so it can be carved.*



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## Some of his sayings:

1. Never slap a man who's chewing tobacco.
2. Never kick a cow chip on a hot day.
3. Never miss a good chance to shut up.
4. Always drink upstream from the herd.
5. If you find yourself in a hole, stop digging.
6. The quickest way to double your money is to fold it and put it back into your pocket.
7. Good judgment comes from experience, and a lot of that comes from bad judgment.
8. If you're riding' ahead of the herd, take a look back every now and then to make sure it's still there.
9. Lettin' the cat outta the bag is a whole lot easier'n puttin' it back.
10. After eating an entire bull, a mountain lion felt so good he started roaring. He kept it up until a hunter came along and shot him.  
The moral: *When you're full of bull, keep your mouth shut.*

## About Growing Older ...

**First** ~ Eventually you will reach a point when you stop lying about your age and start bragging about it.

**Second** ~ The older we get, the fewer things seem worth waiting in line for.

**Third** ~ Some people try to turn back their odometers. Not me; I want people to know 'why' I look this way. I've traveled a long way, and some of the roads weren't paved.

**Fourth** ~ When you are dissatisfied and would like to go back to youth, think of Algebra.

**Fifth** ~ You know you are getting old when everything either dries up or leaks.

**Sixth** ~ I don't know how I got over the hill without getting to the top.

**Seventh** ~ One of the many things no one tells you about aging is that it's such a nice change from being young.

**Eighth** ~ One must wait until evening to see how splendid the day has been.

**Ninth** ~ Being young is beautiful, but being old is comfortable.

**Tenth** ~ Long ago, when men cursed and beat the ground with sticks, it was called witchcraft. Today it's called golf.

**And, finally** ~ If you don't learn to laugh at trouble, you won't have anything to laugh at when you're old.

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## The Power of Personal Notes

To be brief, this is a message about the power of a personal note. I have written about the power of using the phrase “thank you” in the past; this is a little different. I have always tried to incorporate the use of such notes, and encourage others to do so too. The

notes you will read below are special. They are real, come from an interesting source, and touch on a very important subject to those who received them. Some are very funny, others are very deep in meaning. All are a special way of thanking a golf course superintendent for exposing them to the game of golf, and more specifically, the role of a superintendent.

This year at the Golf Industry Show, several field staff representatives took part in a First Green field trip in conjunction with a GCSAA seminar. It was a great opportunity to participate in another field trip, my third, and see how others operate their student learning curriculums. After the on-site portion of the First Green trip, the group got to meet back at the convention center and hear from a panel of superintendents who have run trips at their facilities recently.

One of those on the panel was Ryan Kraushofer, general manager of Westminster National Golf Course, Westminster, Md. Kraushofer shed light on his course’s success with schools in his county and also noted the benefits he received as a turfgrass professional. Some of those benefits were at the personal level.

Within days after hosting his First Green field trip consisting of fifth graders, Kraushofer was to marry the love of his life. As a thank you, the students who visited had the ability to send their First Green host “Advice for the Newlyweds from a Fifth-Grader.” Kraushofer was kind enough to share some of the personal notes he received from the students. As a reminder, this is marital advice from **fifth-graders!**

---

Dear the Kraushofers,

One of the things I recommend is to not talk about grass all the time your wife will get annoyed.

---

Dear Ryan,

Always make the wife happy. If you are in an argument, if you know you are wrong admit it. If you know you are right, still admit you are wrong. If you have a happy wife you have an easier life.

---

To Mr. and Mrs. Kraushofer:

Be nice to one another. I know it can be hard but at least try.

---

Also, you should never argue either but if you do, admit it if you are wrong if you don’t it could end in more arguing. You should also go do sports that’s fun and enjoyable unless you are playing with competitive 5th graders, I should know. Golfing sounds good and where have I heard that before.

---

Dear Ryan,

Don’t always try to defend yourself. Also, don’t purchase pants without the wife’s consent. Have a good time and always offer to help. Shower her with pedals after the wedding.

---

Dear Mr. and Mrs. Kraushofer,

Hello. Here is some advice to have a happy life together.

1. Don’t go to sleep angry, if you fight resolve it as quickly as possible
2. Talk about important decisions before making them
3. Forgive each other. Remember that you love each other and that sometimes people make mistakes
4. Don’t use technology during potentially nice moments such as dinner or vacations
5. Remind yourselves how lucky you are!

---

Dear Ryan,

If you want good advice, keep on reading! (I’ve happened to go to a lot of weddings, so I know a thing or two!) First of all, you should get a 5- to 7-year-old girl to throw the pedals, because everybody will go: awwww! Also, use some breath freshener before you kiss, because if your breath smells bad, it would be awkward (don’t ask why, I just know). Otherwise, I’ll wish you good luck! Hope everything goes well; also, be a happy couple!

---

Dear Ryan,

Remember some of this advice on your wedding day:

1. Whenever your wife says, do I look good always say yes. Never yeah you look fine always say you look fantastic or gorgeous or wonderful.
2. Tie your shoes. While dancing you don’t want to go face first on the floor. Trust me, it’s very embarrassing...
3. Always listen to your wife. Remember anything you do can ruin a perfect relationship so be the greatest husband you can be.

---

The one message I’m about to say is directly to Mr. Ryan, make sure you have about the same love for your golf course and your wife. Ok? Make sure to get everyone a gift on Valentine’s Day! A lot of money will go into this and a lot of time will go into this!

---



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Dear Mr. Kraushofer,

You've got to make sure to buy the Mrs. lots of shoes. She will be so happy. I know my mom is happy when my dad gets her flowers. Be sure to keep her happy because the first time you make a mistake, she will be very angry, so keep her very very very very happy!

---

Dear Mr. Kraushofer,

- Forgive your wife
  - Love your wife
  - Help your wife
  - Party with your wife
  - Kiss your wife
- 

These notes were a simply a way to say thank you for a school visit to a golf course. If you talk to Kraushofer, you will find that those notes took on a much deeper meaning. In fact, he told me they were some of the best wedding gifts they received, and they shared many of these notes with their guests!

While you hope to convey a message when writing a note of thanks, what may in fact seem simple to you the sender may well have a much deeper and more profound effect on the recipient!

## GCSAA Resources and Deadlines

you **Get Cool Stuff** from your **Association Already**

### EIFG Golf Facility Membership Program

The Golf Facility Membership Program recognizes a facility's commitment to advancing environmental stewardship. Through donations of \$250 or more, participants enable the EIFG to support and fund research, education, advocacy and more.

Participating facilities receive various forms of recognition from the EIFG and GCSAA as well as marketing materials to demonstrate their support to their patrons and community.

Let your facility know  
Promote your support of the EIFG with this [letter to facility members](#).

## 2018 Most Valuable Technician Award

Does your turf equipment technician deserve some much-needed recognition for the vital, behind-the-scenes role they play in the success of your golf facility? If so, he or she is eligible for *GCM's* Most Valuable Technician (MVT) awards program, presented in partnership with Foley United. Deadline soon, click [here](#) to nominate a deserving EM.

## 2018 Most Valuable Technician Award:

[\(Link to more information here\)](#)

## GCSAA Legacy Awards

The GCSAA Legacy Awards competition offers education aid to the children and grandchildren of GCSAA members. Awards of \$1,500 each are funded by Syngenta and the Environmental Institute for Golf. **Deadline of April 15<sup>th</sup>**.

## GCSAA Scholars Competition

These scholarships range from \$500 to \$6,000. Applicants must be enrolled in a recognized undergraduate program in a major field related to turf management, have completed at least 24 credit hours or the equivalent of one year of full-time study in the appropriate major, and be a member of GCSAA. **Deadline June 1<sup>st</sup>**.

## Upcoming FREE webcasts:

- Mar. 28 [Making Successful Weather-Based Management Decisions](#) Brad Jakubowski
- Mar. 29 [A Must Have: Written Best Management Practices Plans for Golf Facilities](#) J. Bryan Unruh, Ph.D.
- Apr. 4 [Standard & Unconventional Ways to Avoid Disease Woes on Warm-Season Fairways and Tees](#) Lee Miller, Ph.D.
- Apr. 5 [Workplace Harassment: What has the last 12 months taught us?](#) Kerri Reisdorff
- Apr. 17 [Hybrid Bermuda Diseases and Control Options presented by PBI](#) Gordon Maria Tomaso-Peterson, Ph.D.
- Apr. 18 [Manejo de malas hierbas en céspedes de campos de golf](#) Diego Gómez de Barreda Ferraz, Ph.D.
- Apr. 24 [Factors Influencing Growth Rate and Nutrient Requirements](#) Bill Kreuser, Ph.D.

Again, if I can be of any assistance, please feel free to contact me.

**Kevin Doyle**

GCSAA Field Staff

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