

The GRASS ROOTS

AN OFFICIAL PUBLICATION OF THE WISCONSIN GOLF COURSE SUPERINTENDENTS ASSOCIATION

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ABOUT THE COVER

The 9th Hole at Erin Hills plays from 135 to 165 yards and is well protected by bunkers. In the background is Hole 18..

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This quote by Jones can remind us our golf games and lives will have challenges through no fault of our own.

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THE GRASS ROOTS

is the bi-monthly publication of the Wisconsin Golf Course Superintendents Association. No part of the THE GRASS ROOTS may be used without the expressed written permission of the editor.

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PRESIDENTS MESSAGE

There Is a First Time For Everything

By Jim Van Herynen, Certified Golf Course Superintendent, South Hills Golf and Country Club

In 1982 I vividly remember my parents announcing to the family that we were taking a two week vacation around the Great Lakes to visit some other "Hollanders". With four kids in the family including myself this was truly a rarity as one would expect. My initial thought was well this stinks, at age fifteen I wasn't going to see my friends for two weeks! After digesting it for a while I realized that for me it was the perfect time because at age 16 I was probably going to be working my summers for many years to come. The trip was enlightening going through Sioux St. Marie and seeing the locks, crossing the Mackinac Bridge, going around Lake Ontario and Lake Huron seeing the Niagra Falls, visiting the Kellogg's factory in Michigan and getting free little boxes of cereal and many more stops. The scenery was beautiful and I got to experience the heavy industry in Gary, the Chicago skyline and simply bonding with my brothers and sister as well as my parents. I can remember the trip almost in its entirety over thirty years later.

Since then I have worked on a golf course every summer. For those of you with spouses and or kids you have probably heard the same comments over the years; "Boy it would sure be nice to take a summer vacation", "I wish we could take a vacation when things are actually open

and not dormant", or one of my favorites "What are you worried about what could possibly happen in a week?" Every time I heard those comment I would bristle and defend myself by saying, "Look at it this way, we are forced to go somewhere warm in the cold and dreary winter, and kids, you have permission to skip school!" Well those days are gone, the kids do not want to skip school anymore in high school as they will miss too much and their homework load would be alarming. Trust me I have thought about it for years.

A few years ago a friend of mine and fellow Superintendent were talking about this exact same thing and he told me he had been taking a summer vacation with his family for years and I should to. With much thought of the disasters that could occur I have finally conquered in my mind that it is possible after talking with him, the Assistant Superintendent and my Greens Committee Chairman. My Chairman asked me a couple years ago, "Are you taking your family anywhere fun this summer?" I told him I hadn't taken a summer vacation for years and he was astounded. He then behind my back at a Board meeting announced it and they voted (in other words gave me permission and full support to do so). It still took a couple of years but I have committed and my family and I are

taking a family vacation this summer out east to visit some family and see New York City. My wife and kids are still stunned but excited.

For years, when interviewing high school students for summer help on the Greens and Grounds I have preached about the commitment golf course work requires. At the same time I supported the need for weekends off but more importantly family vacations stating they should do these things because once you are on your own those days could be gone. Every year most of our crew takes a week family vacation and they come back refreshed to finish the remainder of the season. My friend told me the same thing. I experienced this a few years ago when I took a long weekend for my son's National Judo tournament in Toledo Ohio and we made the most out of it visiting Cleveland and the Rock and Roll Hall of Fame which was fantastic.

I am about to embark on a first in my adult life and If you recall it has been since 1982 – it is long over do. During this hectic time of year take a step back and look at the big picture of life and make the time for what your family has been begging you for years. Create memories by showing them part of this beautiful country we call home and embrace it. I am sure it will be truly rewarding. 

WGCSA MISSION STATEMENT

The Wisconsin Golf Course Superintendents Association is committed to serve each member by promoting the profession and enhancing the growth of the game of golf through education, communication and research.

WGCSA VISION STATEMENT

The Wisconsin Golf Course Superintendents Association is dedicated to increase the value provided to its members and to the profession by:

- Enhancing the professionalism of its members by strengthening our role as a leading golf organization in the state.
- Growing and recognizing the benefits of a diverse membership throughout Wisconsin.
- Educating and promoting our members as leaders in environmental stewardship.
- Offering affordable, high value educational programs at the forefront of technology and service.
- Being key to enjoyment and the economic success of the game of golf.



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Wisconsin Snow Mold Review

By Dr. Paul Koch, Department of Pathology, University of Wisconsin – Madison

We have reached that odd time of year. Where hot, humid weather and months of golfer traffic make it amongst the most stressful times of the year for managing turf. But it's also the time of year when we start thinking about the coldest time of year, and in particular start planning for snow mold. The University of Wisconsin – Madison conducts arguably the largest snow mold trials in the world every year, and the winter of 2014-2015 was no different. Last winter we tested hundreds of treatments across six sites in Wisconsin, Minnesota, and the upper peninsula of Michigan. Though snow mold was not especially problematic across most of the region, due mostly to cold temperatures and a lack of snow cover, snow mold was severe in our trials at Wausau Country Club in Wausau, WI

(Figure 1) and Marquette Country Club in Marquette, MI (Figure 2).

The Experimental Design

The trial at Wausau CC included 126 treatments (including some confidential ones not presented here), and was the largest single trial we have ever conducted at UW (Figure 3 on page 8). The evaluation was conducted on a mixed stand of creeping bentgrass and annual bluegrass maintained at fairway height. Individual plots measured 3 ft. X 10 ft. and were arranged in a randomized complete block design with 4 replications. Individual treatments were applied at a nozzle pressure of 40 p.s.i. using a CO₂ pressurized boom sprayer equipped with two XR Teejet AI8004VS nozzles. All fungicides were agitated by hand and ap-

plied in the equivalent of 1.5 gallons of water per 1000 ft². For those treatments receiving early fungicide timings, those applications were made on October 16th, 2014. The majority of products were applied at only the late application timing, which was made on November 7th, 2014. There was consistent snow cover on the experimental area from late November until mid-March, a total of approximately 120 days. Disease severity, turf quality, and color were recorded on March 20th, 2015. Disease severity was visually recorded as percent area affected, turfgrass quality was visually assessed on a 1-9 scale with 6 being acceptable, and Normalized Difference Vegetative Index (turfgrass color) was rated using an HCS 100 GreenSeeker® from Trimble Navigation Ltd.



Figure 1: Microdochium patch was the primary disease observed at Wausau CC, and non-treated control plots averaged 90% disease.



Figure 2: Speckled snow mold (*Typhula ishikariensis*) was the primary disease observed at Marquette CC, and non-treated controls averaged 94% disease.

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WISCONSIN PATHOLOGY REPORT

The Results

Microdochium patch was the primary disease observed at Wausau CC, and non-treated controls averaged 90% disease (**Table 1**). The intense disease pressure was primarily the result of prolonged snow cover that insulated the turf surface underneath...with a near break in snow cover occurring in mid-December (**Figure 4**). Despite this intense pressure, an incredible 77 of 119 treatments provided greater than 98% disease suppression (i.e. less than 2% disease was present in these plots). Nearly all of these treatments contained at least three active ingredients, and many high performing treatments contained products and product mixtures we're all familiar with such as Instrata, Interface + Triton FLO, Turfcide, Insignia + Trinity, QP Enclave, and 26/36 + Torque. But there were also some newer product



combinations that performed very well under heavy pressure; including Disarm T, Interface + Mirage, and Tourney + 26/36. Disarm T is a combination of Disarm (fluoxastrobin) and tebuconazole, Mirage is also a new tebuconazole product

from Bayer, and Tourney is a DMI fungicide familiar to many that is now part of Nufarm's product line.

What do the results mean for me?

The results presented here indicate that you have a multitude of options when building your snow mold program. Remember what I mentioned earlier; 77 different treatments provided outstanding snow mold control under heavy disease pressure! So use the results presented here, as well as the results of our other trials present online, to work with your technical representatives and build a program that works for you, your facility, and your budget. To see the results and treatment pictures of every fungicide testing trial from last winter and dating back to the winter of 2008-2009, please visit the Turfgrass Diagnostic Lab's Fungicide Testing Results page at www.tdl.wisc.edu/results.



Figure 3: Overhead shot of the massive experimental area at Wausau CC, which included 4 replications of 126 treatments. Photo courtesy of EPIC Creative.

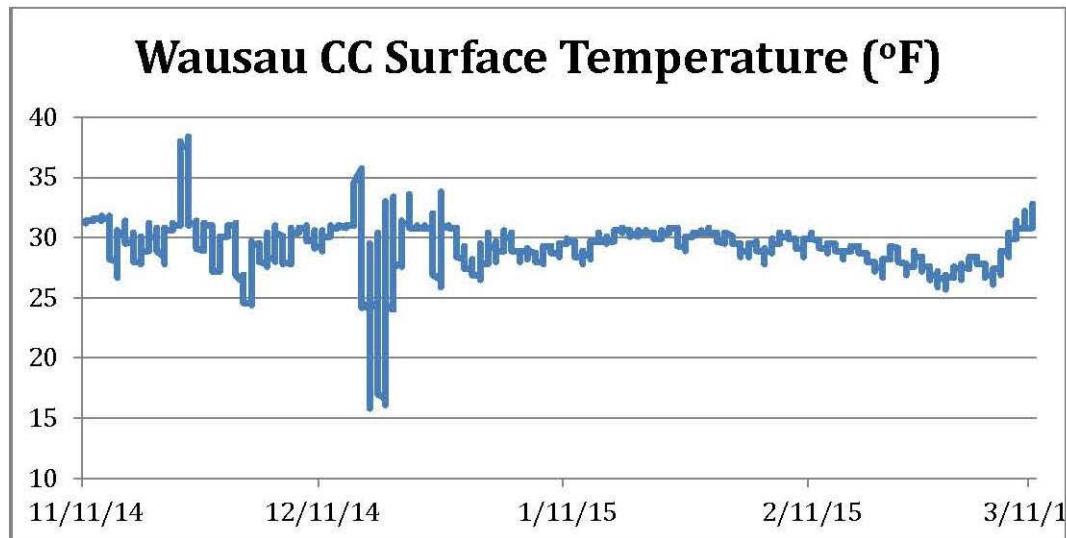


Figure 4: Surface temperature under snow cover at Wausau CC during the winter of 2014-2015. A thaw in mid-December nearly left the plot void of its insulating snow cover, but additional snows built the layer back up and temperatures quickly moderated.

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WISCONSIN PATHOLOGY REPORT

Table 1: Mean snow mold severity, turf quality, and turf color assessed on March 20th, 2015 at Wausau CC in Wausau, WI.

Treatment	Rate	Application Timing ^a	Disease Severity ^b	Turf Quality ^c	Turf Color ^d
1	Non-treated control		90.0a	1.5k	0.400s
2	Civitas	16.0 fl oz/1000 ft ²	Late		
2	Harmonizer	1.0 fl oz/1000 ft ²	Late	30.0d-h	4.5e-i
	Topaz	1.0 fl oz/1000 ft ²	Late		
3	Civitas	16.0 fl oz/1000 ft ²	Late		
3	Harmonizer	1.0 fl oz/1000 ft ²	Late		
3	Topaz	1.0 fl oz/1000 ft ²	Late	18.0fgh	5.5b-g
	Droplex	10.0 fl oz/a	Late		
4	Instrata	7.5 fl oz/1000 ft ²	Late		
4	Droplex	10.0 fl oz/a	Late	0.5h	7.0a-d
5	Civitas	16.0 fl oz/1000 ft ²	Early/Late		
5	Harmonizer	1.0 fl oz/1000 ft ²	Early/Late	55.0cd	3.3h-k
6	Civitas	16.0 fl oz/1000 ft ²	Early/Late		
6	Harmonizer	1.0 fl oz/1000 ft ²	Early/Late	23.8e-h	5.3c-g
	Secure	0.5 fl oz/1000 ft ²	Late		
7	Secure	0.5 fl oz/1000 ft ²	Late	11.3h	5.5b-g
8	654-0520	16.0 fl oz/1000 ft ²	Early/Late		
8	EXP 654-0505	0.5 fl oz/1000 ft ²	Early/Late	62.5bc	2.8ijk
	654-0520	16.0 fl oz/1000 ft ²	Early/Late		
9	EXP 654-0505	0.5 fl oz/1000 ft ²	Early/Late	43.8c-f	4.0f-i
	Secure	0.5 fl oz/1000 ft ²	Late		
10	654-0520	16.0 fl oz/1000 ft ²	Early/Late		
10	654-0653	0.89 fl oz/1000 ft ²	Early/Late	35.0c-h	4.8d-h
	654-0520	16.0 fl oz/1000 ft ²	Early/Late		
11	654-0653	0.89 fl oz/1000 ft ²	Early/Late	17.5fgh	5.8a-f
	Secure	0.5 fl oz/1000 ft ²	Late		
12	Civitas	16.0 fl oz/1000 ft ²	Early/Late		
12	Harmonizer	1.0 fl oz/1000 ft ²	Early/Late	6.3h	6.3a-e
	Torque	0.6 fl oz/1000 ft ²	Late		
13	Torque	0.6 fl oz/1000 ft ²	Late	23.0e-h	5.3c-g
	Civitas	16.0 fl oz/1000 ft ²	Early/Late		
14	Harmonizer	1.0 fl oz/1000 ft ²	Early/Late	0.0h	7.3abc
	Instrata	11.0 fl oz/1000 ft ²	Late		
15	654-0520	16.0 fl oz/1000 ft ²	Early/Late		
15	EXP 189-43	1.3 fl oz/1000 ft ²	Early/Late	47.5cde	3.3h-k
	654-0520	16.0 fl oz/1000 ft ²	Early/Late		
16	EXP 189-43	1.3 fl oz/1000 ft ²	Early/Late	3.8h	6.5a-e
	Secure	0.5 fl oz/1000 ft ²	Late		
17	Turfcide	8.0 fl oz/1000 ft ²	Late	3.8h	6.5a-e
	Foursome	0.5 fl oz/1000 ft ²	Late		
18	Turfcide	12.0 fl oz/1000 ft ²	Late	0.0h	7.3abc
	Foursome	0.5 fl oz/1000 ft ²	Late		
19	Turfcide	16.0 fl oz/1000 ft ²	Late	3.8h	6.5a-e
	Foursome	0.5 fl oz/1000 ft ²	Late		

^aEarly fungicide treatments applied on Oct. 16th, 2014 and late treatments applied on Nov. 7th, 2014.

^bMean percent diseased area assessed on March 20th, 2015.

^cQuality was visually assessed where 1 = dead, 6 = acceptable, 9 = dark green.

^dColor was assessed using an HCS 100 NDVI GreenSeeker from Trimble Navigation Ltd®.

WISCONSIN PATHOLOGY REPORT

Table 1 (cont): Mean snow mold severity, turf quality, and turf color assessed on March 20th, 2015 at Wausau CC in Wausau, WI.

Treatment	Rate	Application Timing ^a	Disease Severity ^b	Turf Quality ^c	Turf Color ^d
20 Interface Triton FLO	3.0 fl oz/1000 ft ² 0.75 fl oz/1000 ft ²	Late Late	0.0h	7.5abc	0.670a-e
21 Interface Turfcide Foursome	3.0 fl oz/1000 ft ² 8.0 fl oz/1000 ft ² 0.5 fl oz/1000 ft ²	Late Late Late	0.5h	7.3abc	0.625a-l
22 Concert II Banner MAXX II	8.5 fl oz/1000 ft ² 1.0 fl oz/1000 ft ²	Late Late	7.5h	6.0a-e	0.655a-h
23 Concert II Turfcide Foursome	8.5 fl oz/1000 ft ² 8.0 fl oz/1000 ft ² 0.5 fl oz/1000 ft ²	Late Late Late	0.0h	7.3abc	0.595a-m
24 Insignia Trinity	0.7 fl oz/1000 ft ² 1.0 fl oz/1000 ft ²	Late Late	0.5h	7.0a-d	0.680abc
25 Insignia Turfcide Foursome	0.7 fl oz/1000 ft ² 8.0 fl oz/1000 ft ² 0.5 fl oz/1000 ft ²	Late Late Late	1.8h	7.0a-d	0.608a-m
26 Torque 26/36	0.9 fl oz/1000 ft ² 4.0 fl oz/1000 ft ²	Late Late	0.5h	7.0a-d	0.665a-f
27 Turfcide Foursome	0.9 fl oz/1000 ft ² 8.0 fl oz/1000 ft ² 0.5 fl oz/1000 ft ²	Late Late Late	0.0h	7.0a-d	0.595a-m
28 Chipco 26GT	4.0 fl oz/1000 ft ²	Late	61.3bc	2.8ijk	0.520i-r
29 Daconil Weatherstik	5.5 fl oz/1000 ft ²	Late	60.0bc	3.3h-k	0.518j-r
30 Chipco 26GT Turfcide Foursome	4.0 fl oz/1000 ft ² 8.0 fl oz/1000 ft ² 0.5 fl oz/1000 ft ²	Late Late Late	3.8h	6.5a-e	0.555b-p
31 Daconil Ultrex Turfcide Foursome	5.5 oz/1000 ft ² 8.0 fl oz/1000 ft ² 0.5 fl oz/1000 ft ²	Late Late Late	0.0h	7.3abc	0.588a-m
32 Chipco 26GT Daconil Ultrex Turfcide Foursome	4.0 fl oz/1000 ft ² 5.5 oz/1000 ft ² 8.0 fl oz/1000 ft ² 0.5 fl oz/1000 ft ²	Late Late Late Late	0.0h	7.0a-d	0.550c-q
33 Daconil Weatherstik Banner MAXX II Turfcide Foursome	2.75 fl oz/1000 ft ² 1.0 fl oz/1000 ft ² 8.0 fl oz/1000 ft ² 0.5 fl oz/1000 ft ²	Late Late Late Late	0.0h	7.0a-d	0.598a-m
34 Daconil Weatherstik Banner MAXX II Turfcide Foursome	2.75 fl oz/1000 ft ² 1.5 fl oz/1000 ft ² 8.0 fl oz/1000 ft ² 0.5 fl oz/1000 ft ²	Late Late Late Late	0.0h	7.0a-d	0.575a-o
35 Daconil Weatherstik Banner MAXX II Turfcide Foursome	2.75 fl oz/1000 ft ² 2.0 fl oz/1000 ft ² 8.0 fl oz/1000 ft ² 0.5 fl oz/1000 ft ²	Late Late Late Late	0.0h	7.0a-d	0.615a-l

^aEarly fungicide treatments applied on Oct. 16th, 2014 and late treatments applied on Nov. 7th, 2014.

^bMean percent diseased area assessed on March 20th, 2015.

^cQuality was visually assessed where 1 = dead, 6 = acceptable, 9 = dark green.

^dColor was assessed using an HCS 100 NDVI GreenSeeker from Trimble Navigation Ltd®.

WISCONSIN PATHOLOGY REPORT

Table 1 (cont): Mean snow mold severity, turf quality, and turf color assessed on March 20th, 2015 at Wausau CC in Wausau, WI.

Treatment	Rate	Application Timing ^a	Disease Severity ^b	Turf Quality ^c	Turf Color ^d	
36	Daconil Weatherstik	4.125 fl oz/1000 ft ²	Late	0.0h	7.0a-d	0.600a-m
	Banner MAXX II	1.0 fl oz/1000 ft ²	Late			
	Turfcide	8.0 fl oz/1000 ft ²	Late			
	Foursome	0.5 fl oz/1000 ft ²	Late			
37	Daconil Weatherstik	4.125 fl oz/1000 ft ²	Late	0.0h	7.3abc	0.585a-n
	Banner MAXX II	1.5 fl oz/1000 ft ²	Late			
	Turfcide	8.0 fl oz/1000 ft ²	Late			
	Foursome	0.5 fl oz/1000 ft ²	Late			
38	Daconil Weatherstik	4.125 fl oz/1000 ft ²	Late	0.0h	7.0a-d	0.605a-m
	Banner MAXX II	2.0 fl oz/1000 ft ²	Late			
	Turfcide	8.0 fl oz/1000 ft ²	Late			
	Foursome	0.5 fl oz/1000 ft ²	Late			
39	Daconil Weatherstik	5.5 fl oz/1000 ft ²	Late	0.0h	7.3abc	0.595a-m
	Banner MAXX II	1.0 fl oz/1000 ft ²	Late			
	Turfcide	8.0 fl oz/1000 ft ²	Late			
	Foursome	0.5 fl oz/1000 ft ²	Late			
40	Daconil Weatherstik	5.5 fl oz/1000 ft ²	Late	0.0h	7.0a-d	0.583a-n
	Banner MAXX II	1.5 fl oz/1000 ft ²	Late			
	Turfcide	8.0 fl oz/1000 ft ²	Late			
	Foursome	0.5 fl oz/1000 ft ²	Late			
41	Daconil Weatherstik	5.5 fl oz/1000 ft ²	Late	0.0h	7.0a-d	0.588a-m
	Banner MAXX II	2.0 fl oz/1000 ft ²	Late			
	Turfcide	8.0 fl oz/1000 ft ²	Late			
	Foursome	0.5 fl oz/1000 ft ²	Late			
42	Instrata	9.3 fl oz/1000 ft ²	Late	0.0h	7.3abc	0.620a-l
	PAR Plus	0.37 fl oz/1000 ft ²	Late			
43	Concert II	8.5 fl oz/1000 ft ²	Late	1.3h	7.0a-d	0.630a-k
	Banner MAXX II	1.0 fl oz/1000 ft ²	Late			
	PAR	0.37 fl oz/1000 ft ²	Late			
44	Concert II	8.5 fl oz/1000 ft ²	Late	1.8h	7.0a-d	0.618a-l
	Banner MAXX II	1.0 fl oz/1000 ft ²	Late			
	PAR plus	0.37 fl oz/1000 ft ²	Late			
45	A13705	4.5 fl oz/1000 ft ²	Late	0.0h	7.5abc	0.633a-j
	PAR	0.37 fl oz/1000 ft ²	Late			
46	A13705	2.6 fl oz/1000 ft ²	Late	0.0h	7.8ab	0.605a-m
	Daconil Weatherstik	5.5 fl oz/1000 ft ²	Late			
	PAR	0.37 fl oz/1000 ft ²	Late			
47	A13705	4.5 fl oz/1000 ft ²	Late	0.0h	7.8ab	0.620a-l
	Daconil Weatherstik	5.5 fl oz/1000 ft ²	Late			
	PAR	0.37 fl oz/1000 ft ²	Late			
48	A13705	4.5 fl oz/1000 ft ²	Late	0.5h	7.0a-d	0.623a-l
	Secure	0.5 fl oz/1000 ft ²	Late			
	PAR	0.37 fl oz/1000 ft ²	Late			
49	A13705	4.5 fl oz/1000 ft ²	Late	0.5h	7.3abc	0.600a-m
	Concert II	4.5 fl oz/1000 ft ²	Late			
	PAR	0.37 fl oz/1000 ft ²	Late			

^aEarly fungicide treatments applied on Oct. 16th, 2014 and late treatments applied on Nov. 7th, 2014.

^bMean percent diseased area assessed on March 20th, 2015.

^cQuality was visually assessed where 1 = dead, 6 = acceptable, 9 = dark green.

^dColor was assessed using an HCS 100 NDVI GreenSeeker from Trimble Navigation Ltd®.



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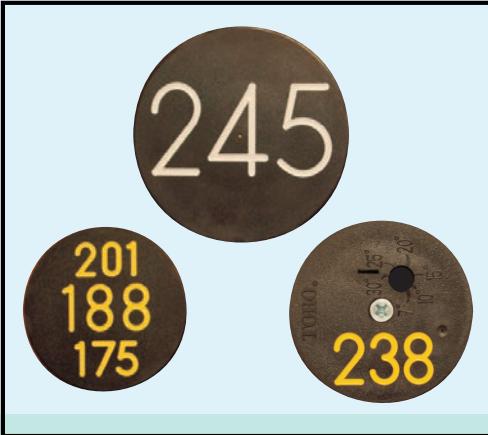
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Flags

Embroidered, Screened
and Digitally Printed

Tee Signs

Bronze, Aluminum
Redwood, Plastic
and Granite



WISCONSIN PATHOLOGY REPORT

Table 1 (cont): Mean snow mold severity, turf quality, and turf color assessed on March 20th, 2015 at Wausau CC in Wausau, WI.

Treatment	Rate	Application Timing ^a	Disease Severity ^b	Turf Quality ^c	Turf Color ^d
50 A13705	4.5 fl oz/1000 ft ²	Late			
50 Primo MAXX	0.2 fl oz/1000 ft ²	Late			
50 PAR	0.37 fl oz/1000 ft ²	Late			
51 Concert II	8.5 fl oz/1000 ft ²	Late			
51 Banner MAXX II	1.0 fl oz/1000 ft ²	Late			
51 Primo MAXX	0.2 fl oz/1000 ft ²	Late	1.3h	7.3abc	0.605a-m
51 PAR	0.37 fl oz/1000 ft ²	Late			
52 Instrata	9.3 fl oz/1000 ft ²	Late			
52 Primo MAXX	0.2 fl oz/1000 ft ²	Late	0.0h	7.3abc	0.615a-l
52 PAR	0.37 fl oz/1000 ft ²	Late			
53 Interface	4.0 fl oz/1000 ft ²	Late			
53 Triton FLO	0.55 fl oz/1000 ft ²	Late	0.0h	7.3abc	0.645a-i
54 Instrata	11.0 fl oz/1000 ft ²	Late	0.0h	7.0a-d	0.630a-k
55 Instrata	10.0 fl oz/1000 ft ²	Early/Late	0.0h	7.0a-d	0.595a-m
56 Instrata	9.3 fl oz/1000 ft ²	Late	0.0h	7.0a-d	0.628a-l
57 Instrata	7.0 fl oz/1000 ft ²	Late	0.5h	7.0a-d	0.613a-l
58 Chipco 26GT	4.0 fl oz/1000 ft ²	Late			
58 Daconil Weatherstik	5.5 fl oz/1000 ft ²	Late	10.5h	6.3a-e	0.568a-o
59 Disarm C	5.9 fl oz/1000 ft ²	Late			
59 Chipco 26GT	4.0 fl oz/1000 ft ²	Late	1.3h	6.8a-d	0.575a-o
60 Disarm T	0.89 fl oz/1000 ft ²	Late	0.0h	7.3abc	0.648a-i
61 Disarm 480 SC	0.36 fl oz/1000 ft ²	Late			
61 Daconil Weatherstik	5.5 fl oz/1000 ft ²	Late	14.3gh	5.8a-f	0.598a-m
61 Chipco 26GT	4.0 fl oz/1000 ft ²	Late			
62 Tourney 26/36	0.37 oz/1000 ft ²	Late	0.5h	7.0a-d	0.648a-i
62	4.0 fl oz/1000 ft ²	Late			
63 Tourney 26/36	0.37 oz/1000 ft ²	Late			
63 Spectro	4.0 fl oz/1000 ft ²	Late	0.5h	7.0a-d	0.640a-j
63	3.5 oz/1000 ft ²	Late			
64 Torque 26/36	0.75 fl oz/1000 ft ²	Late			
64	4.0 fl oz/1000 ft ²	Late	0.0h	7.0a-d	0.663a-g
65 Torque 26/36	0.75 fl oz/1000 ft ²	Late			
65 Spectro	4.0 fl oz/1000 ft ²	Late	3.8h	6.8a-d	0.643a-j
65	3.5 oz/1000 ft ²	Late			
66 QP Strobe 50 WG	0.4 oz/1000 ft ²	Late			
66 QP Enclave	4.0 fl oz/1000 ft ²	Late	0.0h	7.3abc	0.633a-j
66 Foursome	0.5 fl oz/1000 ft ²	Late			
67 QP Enclave	6.0 fl oz/1000 ft ²	Late			
67 Foursome	0.5 fl oz/1000 ft ²	Late	0.0h	7.5abc	0.643a-j
68 QP Enclave	8.0 fl oz/1000 ft ²	Late			
68 Foursome	0.5 fl oz/1000 ft ²	Late	0.0h	7.5abc	0.640a-j
68					
69 QP Strobe 50 WG	0.4 oz/1000 ft ²	Late			
69 QP Tebuconazole	0.6 fl oz/1000 ft ²	Late	2.5h	6.5a-e	0.645a-i
69 Foursome	0.5 fl oz/1000 ft ²	Late			

^aEarly fungicide treatments applied on Oct. 16th, 2014 and late treatments applied on Nov. 7th, 2014.

^bMean percent diseased area assessed on March 20th, 2015.

^cQuality was visually assessed where 1 = dead, 6 = acceptable, 9 = dark green.

^dColor was assessed using an HCS 100 NDVI GreenSeeker from Trimble Navigation Ltd®.

WISCONSIN PATHOLOGY REPORT

Table 1 (cont): Mean snow mold severity, turf quality, and turf color assessed on March 20th, 2015 at Wausau CC in Wausau, WI.

Treatment	Rate	Application Timing ^a	Disease Severity ^b	Turf Quality ^c	Turf Color ^d
70	A20744	0.5 oz/1000 ft ²	Late		
	A17856	1.09 fl oz/1000 ft ²	Late		
	Secure	0.5 fl oz/1000 ft ²	Late	0.5h	7.5abc
	PAR	0.36 fl oz/1000 ft ²	Late		0.648a-i
71	A20744	0.5 oz/1000 ft ²	Late		
	A17856	1.09 fl oz/1000 ft ²	Late		
	Banner MAXX II	2.0 fl oz/1000 ft ²	Late	0.0h	7.3abc
	PAR	0.36 fl oz/1000 ft ²	Late		0.665a-f
72	Secure	0.5 fl oz/1000 ft ²	Late		
	A17856	1.09 fl oz/1000 ft ²	Late		
	A19188	1.0 fl oz/1000 ft ²	Late	0.0h	7.0a-d
	PAR	0.36 fl oz/1000 ft ²	Late		0.628a-l
73	A17856	1.09 fl oz/1000 ft ²	Late		
	A19188	1.0 fl oz/1000 ft ²	Late		
	Banner MAXX II	2.0 fl oz/1000 ft ²	Late	0.0h	7.0a-d
	PAR	0.36 fl oz/1000 ft ²	Late		0.660a-g
74	A18126	0.164 oz/1000 ft ²	Late		
	A17856	1.09 fl oz/1000 ft ²	Late		
	Secure	0.5 fl oz/1000 ft ²	Late	0.5h	7.0a-d
	PAR	0.36 fl oz/1000 ft ²	Late		0.663a-g
75	A18126	0.164 oz/1000 ft ²	Late		
	A17856	1.09 fl oz/1000 ft ²	Late		
	Banner MAXX II	2.0 fl oz/1000 ft ²	Late	0.5h	7.0a-d
	PAR	0.36 fl oz/1000 ft ²	Late		0.633a-j
76	A17856	1.88 fl oz/1000 ft ²	Late		
	A19188	1.0 fl oz/1000 ft ²	Late		
	PAR	0.36 fl oz/1000 ft ²	Late	0.0h	7.0a-d
					0.663a-g
77	A17856	1.41 fl oz/1000 ft ²	Late		
	A19188	0.75 fl oz/1000 ft ²	Late		
	PAR	0.36 fl oz/1000 ft ²	Late	0.5h	7.3abc
					0.670a-e
78	Instrata	9.3 fl oz/1000 ft ²	Late		
	PAR	0.36 fl oz/1000 ft ²	Late	0.0h	7.0a-d
79	Interface	6.0 fl oz/1000 ft ²	Late		
	Triton FLO	0.85 fl oz/1000 ft ²	Late	1.3h	7.0a-d
80	A13705	2.6 fl oz/1000 ft ²	Late		
	PAR	0.36 fl oz/1000 ft ²	Late	15.0gh	6.0a-e
81	A20744	0.5 oz/1000 ft ²	Late		
	A13705	2.6 fl oz/1000 ft ²	Late		
	PAR	0.36 fl oz/1000 ft ²	Late	0.0h	7.3abc
					0.658a-h
82	A17856	1.09 fl oz/1000 ft ²	Late		
	A13705	2.6 fl oz/1000 ft ²	Late		
	PAR	0.36 fl oz/1000 ft ²	Late	0.0h	7.8ab
					0.650a-h
83	Secure	0.5 fl oz/1000 ft ²	Late		
	A13705	2.6 fl oz/1000 ft ²	Late		
	PAR	0.36 fl oz/1000 ft ²	Late	0.0h	7.5abc
					0.665a-f

^aEarly fungicide treatments applied on Oct. 16th, 2014 and late treatments applied on Nov. 7th, 2014.

^bMean percent diseased area assessed on March 20th, 2015.

^cQuality was visually assessed where 1 = dead, 6 = acceptable, 9 = dark green.

^dColor was assessed using an HCS 100 NDVI GreenSeeker from Trimble Navigation Ltd®.

WISCONSIN PATHOLOGY REPORT

Table 1 (cont): Mean snow mold severity, turf quality, and turf color assessed on March 20th, 2015 at Wausau CC in Wausau, WI.

Treatment	Rate	Application Timing ^a	Disease Severity ^b	Turf Quality ^c	Turf Color ^d
84	A13705	2.6 fl oz/1000 ft ²	Late	1.0h	7.0a-d
	Banner MAXX II	2.0 fl oz/1000 ft ²	Late		
	PAR	0.36 fl oz/1000 ft ²	Late		
85	A13705	2.6 fl oz/1000 ft ²	Late	0.0h	7.5abc
	A19188	1.0 fl oz/1000 ft ²	Late		
	PAR	0.36 fl oz/1000 ft ²	Late		
86	A18126	0.164 oz/1000 ft ²	Late	0.0h	7.5abc
	A13705	2.6 fl oz/1000 ft ²	Late		
	PAR	0.36 fl oz/1000 ft ²	Late		
87	Concert II	4.5 fl oz/1000 ft ²	Late	0.0h	7.3abc
	A13705	2.6 fl oz/1000 ft ²	Late		
	PAR	0.36 fl oz/1000 ft ²	Late		
88	Lexicon	0.34 fl oz/1000 ft ²	Late	2.5h	6.5a-e
	Trinity	1.5 fl oz/1000 ft ²	Late		
	Daconil Ultrex	5.0 oz/1000 ft ²	Late		
89	Honor	1.1 oz/1000 ft ²	Late	3.0h	6.5a-e
	Trinity	1.5 fl oz/1000 ft ²	Late		
	Daconil Ultrex	5.0 oz/1000 ft ²	Late		
90	Lexicon	0.34 fl oz/1000 ft ²	Late	2.5h	6.8a-d
	Trinity	1.5 fl oz/1000 ft ²	Late		
	Curalan	1.0 oz/1000 ft ²	Late		
97	Compass	0.20 oz/1000 ft ²	Late	41.3c-g	3.8g-j
98	Fiata	6.0 fl oz/1000 ft ²	Late	1.5h	7.0a-d
	Turfcide	6.0 fl oz/1000 ft ²	Late		
99	Interface	5.0 fl oz/1000 ft ²	Late	0.0h	7.8ab
	Mirage	2.0 fl oz/1000 ft ²	Late		
100	Interface	4.0 fl oz/1000 ft ²	Late	0.0h	7.3abc
	Mirage	2.0 fl oz/1000 ft ²	Late		
101	Interface	5.0 fl oz/1000 ft ²	Late	0.0h	7.5abc
	Mirage	1.5 fl oz/1000 ft ²	Late		
102	Interface	6.0 fl oz/1000 ft ²	Late	1.8h	7.0a-d
	Mirage	2.0 fl oz/1000 ft ²	Late		

^aEarly fungicide treatments applied on Oct. 16th, 2014 and late treatments applied on Nov. 7th, 2014.

^bMean percent diseased area assessed on March 20th, 2015.

^cQuality was visually assessed where 1 = dead, 6 = acceptable, 9 = dark green.

^dColor was assessed using an HCS 100 NDVI GreenSeeker from Trimble Navigation Ltd®



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GOLF COURSE SUPERINTENDENTS ASSOCIATION OF AMERICA

WISCONSIN PATHOLOGY REPORT

Table 1 (cont): Mean snow mold severity, turf quality, and turf color assessed on March 20th, 2015 at Wausau CC in Wausau, WI.

Treatment	Rate	Application Timing ^a	Disease Severity ^b	Turf Quality ^c	Turf Color ^d
104 Compass Mirage	0.20 oz/1000 ft ² 0.63 fl oz/1000 ft ²	Late-PreIHR Late	0.5h 0.0h	7.3abc 7.3abc	0.650a-h 0.660a-g
105 Compass Mirage	0.20 oz/1000 ft ² 0.94 fl oz/1000 ft ²	Late-PreIHR Late	0.0h	7.3abc	0.660a-g
106 Compass Mirage	0.20 oz/1000 ft ² 1.57 fl oz/1000 ft ²	Late-PreIHR Late	0.0h	7.0a-d	0.633a-j
107 Compass Mirage	0.20 oz/1000 ft ² 1.89 fl oz/1000 ft ²	Late-PreIHR Late	0.0h	7.0a-d	0.650a-h
108 SP102000030109 Mirage	5.0 fl oz/1000 ft ² 1.5 fl oz/1000 ft ²	Late Late	21.3fgh	5.8a-f	0.588a-m
109 SP102000030109 Mirage	6.0 fl oz/1000 ft ² 1.5 fl oz/1000 ft ²	Late Late	0.0h	7.0a-d	0.628a-l
110 SP102000030109 Mirage	8.0 fl oz/1000 ft ² 1.5 fl oz/1000 ft ²	Late Late	0.0h	7.0a-d	0.640a-j
111 SP102000028297 Mirage	4.0 fl oz/1000 ft ² 1.5 fl oz/1000 ft ²	Late Late	4.3h	6.5a-e	0.658a-h
112 SP102000028297 Mirage	5.0 fl oz/1000 ft ² 1.5 fl oz/1000 ft ²	Late Late	0.5h	7.5abc	0.665a-f
113 SP102000028297 Mirage	6.0 fl oz/1000 ft ² 1.5 fl oz/1000 ft ²	Late Late	1.8h	7.0a-d	0.645a-i
114 Tartan	2.0 fl oz/1000 ft ²	Late	2.5h	6.5a-e	0.638a-j
115 Trilogy	1.26 fl oz/1000 ft ²	Late	18.8fgh	5.3c-g	0.628a-l
116 Trilogy	1.89 fl oz/1000 ft ²	Late	7.5h	6.0a-e	0.653a-h
117 Trilogy	2.51 fl oz/1000 ft ²	Late	0.5h	7.0a-d	0.605a-m
118 Trilogy	3.14 fl oz/1000 ft ²	Late	0.0h	7.3abc	0.658a-h
119 Trilogy	5.56 fl oz/1000 ft ²	Late	0.0h	7.0a-d	0.640a-j

^aEarly fungicide treatments applied on Oct. 16th, 2014 and late treatments applied on Nov. 7th, 2014.

^bMean percent diseased area assessed on March 20th, 2015.

^cQuality was visually assessed where 1 = dead, 6 = acceptable, 9 = dark green.

^dColor was assessed using an HCS 100 NDVI GreenSeeker from Trimble Navigation Ltd®

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Top 10: Golf Courses

By Jake Schneider, LMD Production Manager, The Bruce Company

A group of longtime friends and I get together a few times each year to hack it around golf courses in the Appleton area, and given that they all have less experience playing the game than me, I usually walk away feeling better about my own 13-handicap (and climbing) skills.

During our most recent outing, one of them suggested that we start playing better courses and get on as many of the top-ranked courses in the state as possible. I still have yet to come to acceptance with paying real American currency for golf rounds, but am slowly coming around. After we wrapped up nine mediocre holes, I pulled up the 2015-16 Golf Digest Top 15 Courses in the state list and was somewhat surprised to realize that I have already played six of these great tracks. Not a huge number, but respectable. SentryWorld will hopefully be added to the 'played' list later in the year, and Lawsonia could have been checked off had my schedule allowed me to make the May WGCSA meeting.

All of this got me to thinking about the many fantastic courses that I've had the opportunity to play, and without further adieu, I present you with my top 10 list of courses played both near and far:

10. Erin Hills. It seems ridiculous that the 2017 US Open host course comes in at number ten, but I remember being physically exhausted after playing here. We played without a caddie, and I just might be willing to fork over a couple of bucks if I play here again. My gut tells me that I need to give it another shot. Hint, hint Zach Reineking...

9. Maple Bluff CC. Historic, tree-lined courses that can be easily walked float my boat, and bonus points are added when you don't need to hit drives 300 yards to have a chance at par. The playing surfaces are always in great condition, and the course routing on an L-shaped piece of property is interesting.

8. Pine Hills CC. This place could probably be ranked higher, but the greens are slightly too extreme for my everyday tastes. Nonetheless, the general condition of the course and natural topography are outstanding. I assume that the taco and brat stands operate year round and not just during the Wee One Outing.

7. Wild Rock GC. My memory of the course isn't terrific aside from the incorporation of an old quarry and a panoramic view from the teeing grounds of a par 5, but after playing there during a WGCSA monthly meeting a few years back, I was very pleasantly surprised by this Wisconsin Dells-based track and need to get back soon.



6. Blackhawk CC. Of course Blackhawk had to be on the list, and realistically, its ranking is heavily influenced by sentimentality as it sits on one of my favorite pieces of property in my favorite city. Despite its relatively short length, the heavily tree-lined fairways, natural hills, and sloping greens make double bogey more common than birdie.

5. Blue Mound G & CC. Yes, another historic, parkland style course. The Seth Raynor design features his trademark greens complexes that you don't see very often. When coupled with the recent restoration, it's a must play. Speaking of...the Wisconsin Turfgrass Association golf outing fundraiser will be here on October 5. What a coincidence.

4. North Shore GC. The place where it all started for a young Jake Schneider. Personal connections aside, I truly believe that this property on the top of Lake Winnebago is one of the most underrated courses in the state. The old bentgrass greens are always slippery, and the course restoration that occurred in the early 2000s took it to a whole new level.

3. Quintero GC. Located in the desert hills outside of Scottsdale, my normal Golf Industry Show group of questionable characters played a marathon day of golf here following the most recent stop in San Diego. The scenery is outstanding, but my golf game was borderline atrocious that day. Side note: the owner's wife doesn't like it when you throw a small rock at a gigantic cactus.

2. TPC-San Antonio. Despite being in the south, the home of the Valero Texas Open was also the site of the coldest experience of my life. Turns out that wearing khakis and a sweater with a pullover isn't sufficient protection against 38 degrees and a light rain. On the plus side, we didn't have any other golfers slowing us down that day. Although my judgment was clouded by hypothermia and frostbite, everything about the course was top notch, and it's very playable for the average golfer.

1. Whistling Straits-Straits Course. The lake, the fescue, the natural-looking manufactured landscape, the sheep, the assistant superintendent who learned everything that he knows from me (kidding, Joe Sell). The Straits course has it all in my opinion. Wayward shots are almost certainly going to result in unusual situations, but poor play should be punished. Having played here multiple times (thanks, Joe), I'd go back in a heartbeat and have always had a great time. However, the wind hasn't been howling during any of these outings.



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Bugs, Dirt, And Grass At Grandparents University

By Dr. Doug Soldat, Department of Soil Science, University of Wisconsin – Madison

Every year the week before field day, we host a big group of grandparents and their grandchildren at the O.J. Noer Facility for the Wisconsin Alumni Association's Grandparents University. During Grandparents University, alumni get the chance to re-visit their Alma Mater, keep up with the newest happenings at the University, and bond with their grandchildren (who may themselves become alumni one day). The program has quite successful and the 1400 or so openings fill up just hours after registration opens every year. It has been copied at universities all over the nation. The grandparents and grandchildren select one of about twenty different majors, where they are immersed in a two-day session of learning activities. Turfgrass Science is one major among others including 3D Printing, Photography, Astronomy, Social Robotics, Limnology, Engineering, Stem Cells, Nursing, and Dairy Science to name a few. We are very proud to be included in the program for the fifth year, and we use it as an opportunity to explain the exciting science behind everyday things like bugs, dirt, and grass to the next generation.

The students arrived on a Thursday afternoon and were split into smaller groups. Each group rotated among five stations which included: an introduction to insects and honey tasting with Chris Williamson, a turfgrass science 101 with OJ Noer Station Manager Tom Schwab, an introduction to grass court tennis with former UW basketball coach and current tennis champ John Powless, soccer with TDL manager Bruce Schweiger on World Cup worthy field (perennial ryegrass/Poa annua mowed at 0.5 inches on a sand root zone), and finally they got to explore a six foot deep soil pit with me and Fred Madison. Thanks to the University Ridge Staff for digging that pit for us each year!

On Friday, the students came to campus to do some laboratory activities including looking at fungi under the microscope with Professor Glen Stanosz of Forest and Wildlife Ecology. Glen also sautéed up some mushrooms for the grandparents. Next, they re-created the soil profile they observed at the OJ Noer the day before with me and Professor Emeritus Fred Madison. We glue the soil horizons into small frames, seal them with clear acrylic and then give them to the kids to hang on their wall - a pretty unique souvenir. After building their soil profiles, they learned some of the finer points of soil science with Professor Nick Balster before heading to see Professor Williamson for another session about insects. And all that before lunch! Friday afternoon, the Wisconsin Alumni Association hosts a fun graduation ceremony where the kids walk across the stage as their name is read dramatically before receiving their diploma from the "Dean" of their major (that's me, and I assume this is my only shot at being a dean of anything). It's always fun to see the smiles on the kids' faces and hear the cheers from the crowd. I am proud to say that the Turfgrass Science major almost always gets the loudest cheers and this year was no exception. Who else can compete with grass court tennis lessons from John Powless?

Grandparents University is not limited to alumni; you just need to join the Wisconsin Alumni Association. This year, my parents (who did not attend UW) took my two kids to the program and had a blast and are already talking about the major they want to do next. If you are interested in this program visit <http://www.uw-alumni.com/grandparents> for the latest on next year's event.



A fresh hole provides a great learning experience for the students.



Tennis pro John Powless provides lessons for the students on the Noer Center court.

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MEMBER SPOTLIGHT

Todd Crambilt, Paul Koch and Tim Schmidt

By Josh Lepine, Certified Golf Course Superintendent, Maple Bluff Country Club

NOTE: As a WGCSA Board member, I want to thank everyone who participated in the Membership survey this past fall. The information and feedback obtained was invaluable. The requests for more member spotlight stories inspired me to start this column. I hope to randomly highlight a few members each edition from all geographic areas, facility types and membership classifications. It may take me 20 years to get to everyone in the directory but please be ready for that phone to ring and be prepared to share stories, photos and information about YOU!

Individual commitment to a group effort- that is what makes a team work, a company work, a society work, a civilization work. -Vince Lombardi

Name: **Todd Crambilt**

Company Position: **Superintendent, Reedsburg Country Club**

Years as WGCSA Member: 20

Membership Classification: A

18 holes with Todd Crambilt:

1. **How did you get started in the turfgrass industry?** Switched majors from Mechanical Engineering to Soil Science. Thank Doc Kussow.

2. **What is the most rewarding part of your career? ?** Everyday has new challenges.

3. **What would you consider to be your greatest career challenge?** Imprelis

4. **Which three adjectives describes you the best?** Ambitious, determined, and impartial

5. **Tell us about your family.** Married to Sharon whom was widowed and has three kids.

6. **Any pets?** We have a dog, yellow lab named Chloe.

7. **What drives/motivates you every day?** The opportunity to improve and become more capable each day.

8. **Who do you admire?** Stephen Hawking.

9. **Who is the person in history you'd most like to meet?** Our 26th President Theodore Roosevelt to thank him for his foresight and conservation of the National Parks.

10. **What's a fun fact that people don't know about you?** I can walk on water but only in the winter months when the lakes are frozen.

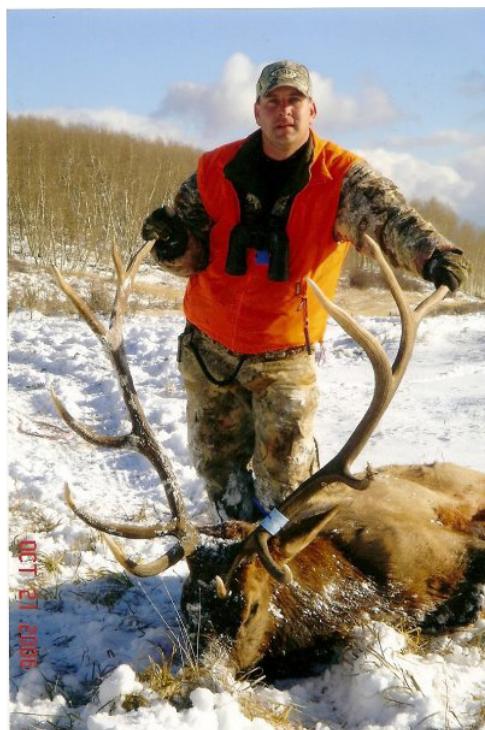
11. **What do you do in your spare time, favorite hobbies?** Building a diesel rat rod. Favorite hobbies are trapping , hunting and fishing.

12. **If you could go anywhere in the world on vacation, where would you go?** Glacier National Park



Top: Josh, Cassie, Todd, Sharon, Ryan and Chloe in Cassies arms.

Bottom: Todd enjoying one of his hobbies in Kremmling, CO.



MEMBER SPOTLIGHT

13. What is the one thing you would like to learn/accomplish someday? I want to learn to grow Morel Mushrooms.

14. What is your favorite turf management related tool or technique? Shovel.

15. Favorites:

TV Show: Seinfeld

Movie: Shawshank Redemption

Food: Steak

Sports Teams: Badgers, Packers, Brewers

16. Do you golf? Handicap? Best shot or golf story? Not Really.

17. Top Bucket List Item? Visit Alaska

18. If you could provide one piece of professional advice, what would it be? Stay positive and work towards a goal each day.



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MEMBER SPOTLIGHT

Name: **Paul Koch**

Company Position: Assistant Professor, University Of Wisconsin Madison

Years as WGCSA Member: Not Sure

Membership Classification: Honorary

Brief Bio: Grew up in Grafton, WI until attending UW-Madison for college...and I'm still there. BS in 2005, MS in 2007, PhD in 2012, started as faculty on January 1st, 2014 and managed the Turfgrass Diagnostic Lab and Fungicide Testing Programs from September of 2005 until April of 2013. Prior turf experience includes working at The Bog in Saukville during the summers of high school and college and interning at Blackwolf Run in 2004

18 holes with Paul Koch:

1. **How did you get started in the turfgrass industry?** Answered an ad in the local paper for summer work at The Bog during my sophomore year of high school. It took me about a month to get accustomed to the hours and the work ethic, but once I got that down I was hooked.

2. **What is the most rewarding part of your career?** Working with the superintendents and others in the turf industry to solve their problems.

3. **What would you consider to be your greatest career challenge?** Getting our research, teaching, and extension programs off the ground here at UW. Now the next challenge will be maintaining them in the coming years under difficult budgetary circumstances.

4. **Which three adjectives describes you the best?** Easy going, self-motivated, not tall.

5. **Tell us about your family.** Mom, Dad, two siblings, and my girlfriend Kimmie

6. **Any pets?** Not yet.

7. **What drives/motivates you every day?** To meet and exceed the lofty expectations of everyone we work with in the turfgrass industry.

8. **Who do you admire?** I'm a history guy, so Abraham Lincoln and Winston Churchill. My staff (Bruce Schweiger, Sam Soper, and Brijesh Karrakat) and graduate students for working tirelessly to help this program succeed. And of course my parents, for supporting me even through my 10 years of schooling for 'growing grass.'

9. **Who is the person in history you'd most like to meet?** Abe himself.

10. **What's a fun fact that people don't know about you?** Love to travel, have been lucky enough to visit countries all over the world.

11. **What do you do in your spare time, favorite hobbies?** I like to read, hike, and travel.

12. **If you could go anywhere in the world on vacation, where would you go?** I've been lucky enough to see many parts of the world, but interested in going to Russia someday when relations are a little better.



Kimmie and Paul in Germany. Wisconsin and Brewers gear always a must.

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MEMBER SPOTLIGHT



13. What is the one thing you would like to learn/accomplish someday? Learn a new language.

14. What is your favorite turf management related tool or technique? Being on the research side of things, our Agricultural Research Manager software makes running our massive fungicide testing program much, much easier.

15. Favorites:

TV Show: Seinfeld

Movie: Jurassic Park

Food: Lots, I will never be thin.

Sports Teams: Badgers and Brewers

16. Do you golf? Handicap? Yes, poorly. About a 15 and getting higher. I once beat former UW turf pathologist (and scratch golfer) Jim Kerns over 9 holes! He hasn't, and will never, hear the end of that.

17. Top Bucket List items? Go to Scotland and play the Old Course, attend Game 7 of a victorious Brewers World Series, and see the Badgers actually win the darn Rose Bowl in person (they're 0-3 with me in attendance).

18. If you could provide one piece of professional advice, what would it be? Treat others with respect, this industry is too small for jerks to succeed over the long haul.

The hardest working crew in turf following an epic miniature golf battle. Unfortunately, Bruce came out on top. From left to right; Bruce Schweiger, Paul Koch, Sam Soper, and Lisa Reedich.

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MEMBER SPOTLIGHT

Name: **Tim S. Schmidt**

Company Position: Assistant Superintendent at Butte des Morts Country Club, Appleton

Years as WGCSA Member: **10**

Membership Classification: C

18 holes with Tim Schmidt:

1. How did you get started in the turfgrass industry? I got started in this business back in 1997 at the age of 15 because my dad made me get out of bed each morning of the summer and pick up garbage on the golf course. My payment was separating the aluminum cans and taking them to the recycling center. After that first summer, I started on the bottom of the maintenance staff chain and moved my way up through high school and junior college, and I was planning, at the time, to become a history teacher and coach in secondary education. When I first began college, I had no intentions on studying turf grass. However, as I sat in class for one semester at college, I knew that sitting in a classroom for the rest of my working career wasn't going to work. At that time, I still worked at the course, and as I got more involved and learned new things, I decided that the course is where I want to be. After 2 ½ years at UW Fox Valley, I transferred to Michigan State University and graduated in December 2005 with a BS in Crop and Soil Science.

2. What is the most rewarding part of your career? The fact that I am outside every morning and get to see the sun come up and see the wildlife move around is awesome. Just as rewarding are the great people that I have met in this profession. From other superintendents to sales reps, factory reps, chemical reps, and all the other industry support professionals that make our job easier. I am honored to have gotten to know many of these individuals and look forward to meeting many more through the upcoming years.

3. What would you consider to be your greatest career challenge? Finding a work-life balance. With two young children and recently having my father-in-law pass away, I know there are times where I can't physically be at work. My father Steve Schmidt has been at Butte Des Morts Country Club for 33 years, and he has taught me how to deal with personal events while still keeping a well maintained club for our membership.

4. Which three adjectives describes you the best? Inquisitive, instinctual, compassionate

5. Tell us about your family. I've been married to my wife, Jessica, for 7 ½ years. I have a daughter Alaina (5 ½) and a son James (2).

6. Any pets? Yes, I have two dogs and a cat: a Beagle named Tucker, Beagle/Bassett mix named Sam, and cat named Marge.

7. What drives/motivates you every day? Keeping the playing conditions to the best that our team can maintain them every day.

8. Who do you admire? I admire my wife because of the amount of patience she has with allowing me to pursue my career goals and raising our children. I also admire my parents for the longevity of their relationship and what they have taught me about life and how to work hard. I admire my grandpa for how he loved whole heartedly and enjoyed life.

9. Who is the person in history you'd most like to meet? Jesus.

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MEMBER SPOTLIGHT



Top: 5 year old Alaina enjoying time at the Packer Game.

Bottom Left: 2 year old James looking cool in his shades.

Bottom Right: Jessica and Tim enjoying some tailgate time at Lambeau Field.



10. What's a fun fact that people don't know about you?

I am a volunteer firefighter for Combined Locks, WI

11. What do you do in your spare time, favorite hobbies? Golf in the summer, curling in the winter, Packers and Michigan State sports fan.

12. If you could go anywhere in the world on vacation, where would you go? Germany. I am 100% German descent.

14. What is your favorite turf management related tool or technique? Toro Lynx irrigation system. Changed my life.

15. Favorites:

TV Show: Breaking Bad

Movie: Home Alone

Food: Frank's Pizza Palace (I will put this pizza up against any pizza in the state. You must try it when you come to Appleton in November.)

Sports Teams: Green Bay Packers and Michigan State Spartans

16. Do you golf? Handicap? Yes I golf and my handicap is 14.

17. Top Bucket List items? Go to Disney with my family, and someday see all 50 states.

18. If you could provide one piece of professional advice, what would it be? I used to coach basketball, so that taught me the team is only as good as its last person. Build yourself a solid team, so you don't have to concentrate on being a manager but more of a leader. ✓



Chapter Manager Updates...

By Brett Grams, Chapter Manager, Wisconsin Golf Course Superintendents Association

If I recall one thing about being a golf course superintendent it was that no two days were every truly the same. The variables of weather, staffing, turf conditions, and the various projects forces everyone to learn to adjust and course correct for whatever variable that simply cannot be controlled.

As Chapter Manager I have experienced a recent “course correction” in my day to day goals during what is typically my slower time of the year. I was focusing on the creation and implementation of the Standard Operating Procedures project that was a goal set forth by the WGCSA Board. Then I took a phone call from our current Website host and provider. Our “new website” is actually six years old already and I knew about many of the limitations but thought a new website was going to be a year or so away. Our hosts informed us that our website is the last functioning site on an “old server” and that we would need to greatly modify our site and be moved at an expense that would not provide greater member services. With one phone call my summer priorities changed.

I am happy to report that the WGCSA will soon have a new website. It will offer better services for our members. Member renew-

als will be streamlined, registration for meetings and events will be easier and more flexible. More content, a message board, and other improvements will also be forthcoming with the new website. I am happy to report that things are going well so far and by fall you should see some very big changes to the www.wgcsa.com.

I hope to see you at our remaining meetings this year. Participation levels and attendance has been a challenge for some time but this year the amount of attendees at our events is down quite a bit. There is always something to be gained by spending a day with your peers! I challenge all members to join us for a meeting. We are all stronger when YOU are able to participate! ✓

Save the dates

- Tues Aug 18, NGL/WGCSA Joint MTG at Sentry World GC
- Monday Sept 21, Wee One Fundraiser at Pine Hills CC
- Monday Oct 5, WTA Fundraiser at Blue Mound Golf & CC
- Saturday evening November 7, is Couples Dinner at Lombardi's Steakhouse in Appleton
- Wed & Thurs Dec 2nd & 3rd Turfgrass Symposium in Kohler

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June Meeting at Autumn Ridge Golf Club

By David Brandenburg, Editor, The Grass Roots

The WGCSA gathered at Autumn Ridge GC in Valders on June 22nd for our monthly meeting and annual golf tournament. Most of us raced rain storms to the course and fortunately the day started inside with Paul Koch speaking on Nutrients Impacts on Disease Development.

Paul started with work by the King of Anthracnose Dr. Bruce Clarke from Rutgers University. According to Paul, Dr. Clark's work has advanced anthracnose research over the past 15 years. Results have shown too much nitrogen can cause a limited increase in disease incidence but too little can greatly increase incidence. 3lbs of Nitrogen per 1000 square feet per year is ideal and 1-2lb's has shown to not be enough. Timing can be important with spring application leading to less anthracnose than fall applications.

Summer Patch is a disease that once you see the symptoms fungicides are no longer effective due to high mycelium amounts in the turf. Work by Dr. Inguagiato from the University of Connecticut on summer patch has shown that hollow tine aerification to reduce compaction along with Manganese applications significantly reduced summer patch incidence. Aerification should be in fall or early spring to allow time for roots to grow before soil temperature increase.

Two studies Paul referenced conflicted each other. Work by Dr. Clarke has shown the higher potassium levels in the fall can lead to reduced winter-kill while Dr.'s Frank Rossi (Cornell) and Doug

Soldat (Wisconsin) have shown higher levels of potassium can lead to increased pink and gray snowmold. Dr. Soldat has done further work to show proper levels of K for summer, early fall and then to reduce levels entering late fall and winter.

Dollar spot incidence increases with lower nitrogen levels while work by Dr. Peter Dernoeden from the University of Maryland has shown ammonium sulfate reduces dollar spot more than any other N sources. Dr. Ed Nangle and Ron Townsend from the Chicago District Golf Association are doing work to study if dollar spot is really a low nitrogen disease from a practical standpoint, what impact does the source of N have on dollar spot on greens and third with is the defense mechanism. This project will have field assessments at the O.J. Noer Center, North Shore Country Club in Chicago along with Lab assessments.

Dr. Koch finished with a question and answer session where I learned although Emerald is a good dollar spot product it should be applied to dry fairways or at least fairways where the dew has been knocked off.

After a great buffet lunch our host Chad Harrington took a quick inspection tour and declared the course playable. Those of us that waited for the rain to finish headed out to enjoy the course designed by Ernie Schrock.

The 18 hole course opened in 1996 and features plenty of challenging holes with changing terrain placing a premium on shot placement.



The pond, fountain and waterfall along with a extra golf hole provide a excellent spot for wedding ceremonies.



Our education for the day was provided by Dr. Paul Koch.



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The course dried up quickly as we played and provided a good test of our skills and a enjoyable round. After years of Scott Bushman taking home the title a new Scott topped the leaderboard as Scott Anthes was able to shoot a 73 to win the Superintendents Division while Peter Meyer matched that score as low Affiliate Member.

The rolling terrain mixed with woods, water and marsh areas provided a incredible layout.

Thanks again to our Hosts: Superintendent and General Manager Chad Harrington, Assistant Superintendent, Julian Mejia and PGA Professional Justin Goosen. 

2015 Tournament Results

Low Gross 73 - Scott Anthes, Brown County GC
 Low Net 75 - Jon Canavan, Milwaukee County Parks
 Low Affiliate 73 - Peter Meyer, National Golf Graphics

Hole Event Winners

Long Drive #13 - Scott Anthes, Brown County GC
 Long Drive #9 - Scott Bushman, Fox Valley GC
 Closest to Pin #11 - Brad Legnaldi, Bowes Creek CC
 Closest to Pin #3 - Brian Johnson, Evergreen GC
 Long Putt #18 - Scott Anthes, Brown County GC



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Top Left: Chad Harrington, Peter Meyer, Scott Anthes, Seth Brogan.

Middle Left: Our hosts Julian Mejia and Chad Harrington

Bottom Left: Brad Legnaioli on the Par three 7th.

Bottom Right: The 312 Yard Par 4 10th Hole from the tee.

Top Right: The 312 Yard Par 4 10th from the green.



Disease Season

By Bruce Schweiger, Turfgrass Diagnostic Lab Manager, O.J. Noer Turfgrass Research and Education Facility

As the years pass they seem to pass even faster. It seems like just yesterday we were sitting in the OJ Noer conference room discussing Summer Field Day Speakers, Possible sites for the Fall WTA Golf Outing and speakers for the 2016 Winter Research Conference. By the time you read this the Summer Field Days will be history. Many Turfgrass Managers say the Summer Field Day signals time to plan for fall. Now that summer is in full swing we have all had a chance to make a turf inventory and find those areas that need our attention this fall. It may be low areas that

don't drain, aerification, irrigation tune-up or dealing with Summer Patch, Take-all-patch or Necrotic Ring Spot. If you are unfortunate to have an issue with one of the Patch Disease this fall is a good time to begin and treatment program if required. Visiting the TDL website and other pathology website is a good way to sort through the options for control programs.

As long as we are talking about the TDL website this is also the time to start planning for your snow mold control program. If you are pondering a change in fungicides program you can go to the TDL website and find data from the last 7 years of snow mold trials. The last two years we have had some great results at Wausau Country Club and the data is worth looking at before you make your final decision. I know I sound like a broken record but if you find a combination that is appropriate for your facility I encourage you to look at more than one year's data. In Wisconsin each winter is entirely different and making sure the combination you have chosen will provide consistent control is very important.

This summer has been a very busy one at the TDL. In discussions with many of you we have talked about how easy the year has been, but the samples at the TDL prove otherwise. I have been very busy with samples and the things I am seeing are varied. The spring started out as dry but with the nice days came many very cold mornings. The soils were very slow to warm and retain any heat. This caused many odd symptoms in the turf, mostly abiotic. Then the rains came in May and as I write this in early July someone has forgotten to turn off the faucet. The amounts of rain have varied greatly with some areas still mowing out of a canoe.

The weather pattern in the spring has me predicting that we will be seeing patch diseases being an issue for the remainder of the season. As you watch your turf and it does not seem to bounce back after one of those hot days be on the lookout for these disease. **Fig 1** shows the darker root which is a sign of a root pathogen. If you are finding these as you examine your turf I encourage you to send me a sample for diagnosis. Once these disease symptoms are detected it is very often a sign many more infected areas. It can be difficult to explain what is happening on the course to your golfers and members. The TDL can write a report that you can post around the clubhouse or publish on the course website to assist you in informing the golfers.

Already this summer we are seeing Basal Rot Anthracnose on fairways around the state. Under the summer stress period this disease is often mistaken for Take-all-Patch or Summer Patch. The treatments are often the same but the timing and use differ. Only with proper diagnosis can we be assured that the dollars we are spending for chemical control are being spent wisely. If Basal Anthracnose is the issue we will discuss possible cultural control programs for the future.



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Fig 1. The darker root is sign of a root pathogen and time for a professional diagnosis.

For those of you that attended the WTA Summer Field Day I am sure you noticed all the plots we re-grassing this year. Doctors Koch, Soldat and Williamson are always striving to keep their research timely and useful. The trends in golf are to plant or overseeded with the "newer" varieties. Many of our research plots were seed to varieties that are not popular or maybe no longer in

use. The Turf group felt now was the time to change over some varieties on plots and also deal with a thatch layer that has been building for years. Just like your facility, the Turf team wants to maintain our facility in the best fashion possible within budgetary restraint. This re-surfacing of plots is the beginning of a multiple year program to phase in new established turf over the next four to five years. There has been discussion about maybe doing a grow-in research project with multiple management option during this re-grassing. If you have any suggestions or programs you would like to be studied please get in touch with me to discuss them.

As we have all been watching the State Budget process and everyone is beginning to work on your budget for 2016, maybe this is the year you could support the TDL. This could be the year you upgrade your TDL Membership or better yet maybe 2016 can be the year you become a contract member.

As many of you have seen Dr. Koch has received an OJ Noer Research Grant. The research project has us in need of as many Patch disease samples as possible. In a very busy year Dr. Koch is offering a free diagnostic report to anyone who will send us a sample. This is also a great way to see the service offer by the TDL if you have never taking advantage of the lab. Please send me your sample. Wrap it in aluminum foil; box it tightly so it does not shake apart, overnight it to the TDL with at least your business card and a note telling me it is for the research project. I will examine the sample and get a report back to you as soon as possible.

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One more plug we have just received our first Rust sample, so be on the lookout for rust! If you find Rust please pull a few leaves, wrap them in foil, put them in an envelope with a business card and send them to the TDL. On the back of the business card indicate where the sample is from, home lawn, sports field, clubhouse lawn, and tee bank.

A few weeks ago I had the great pleasure of having lunch with two great guys, Randy Smith formally of Nakoma CC and Monroe Miller, who needs no introduction. Occasionally but not often enough we go out to lunch together. On this occasion we had decided to have lunch sometime in early April. Yes we had lunch in June. I know how hard it is to be a turf manager and schedule a crew around the weather and play, but if you think that is hard try to nail down a date when these two "retired" gentlemen will even be in the same town let alone available for lunch. I did prevail and I wanted to tell everyone Randy is doing well and we had a great time. I told someone I got to have lunch with the old guys and I was



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quickly reminded I too was one of those guys. If that is true I feel honored to be in their club.

Reminders:

- Fall WTA Golf Outing at Blue Mound Golf and Country Club, Tuesday October 5th. Check out the new wisconsinturfgrassassocuation.org website for more information.
- WTA Winter Research Conference and Webinar January 5th, again check out the WTA website for more information.



Monroe Miller, Bruce Schweiger and Randy Smith enjoy lunchtime conversation.

Event Schedule!

Monday September 21 - Wee One Fundraiser, Pine Hills Country Club, Sheboygan

Monday October 5 - WTA Fundraiser - Blue Mound Golf and Country Club, Wauwatosa

November 7th - Couples Dinner, Lombardi's Steakhouse, Appleton

Wed & Thur December 2-3 - Golf Turf Symposium, American Club, Kohler

Tuesday January 5 - WTA Research Conference and Webinar

February 6-11, 2016 - Golf Industry Show, San Diego, CA

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Don Ferger

By Bruce Schweiger, Turfgrass Diagnostic Lab Manager, O.J. Noer Turfgrass Research and Education Facility

Every year when the calendar turn to January 1 you have to pause and wonder what new challenge and sadness will come into your life this year. I can say the one sadness that has been thrust into my life this year was the passing of a very good friend Don Ferger. In May John Krutilla WGCSA retired member called to inform me that Don was sick and in the hospital. After many test Don was informed he had lung cancer and a treatment program was immediately begun. Sadly the prognosis was too late and Don passed away very quickly on June 9th.

Many years ago, 33 to be exact, as I was starting my new career as a Golf Course Superintendent at Riverside Golf Course in Janesville and I had a visitor. As you know a new Superintendent means receiving many sales calls from all the local vendors. My mechanic drove out to see me the tell me I had another visitor; this was before the time of cellphones or two-way radios. As I made my way back to the shop I wondered whom this could be? As I rounded the corner I saw that black cowboy hat! I had no idea the adventures that Black Cowboy Hat would lead me on over the next 32 years. This was the first of my peers come introduce himself. As many of you know Don was never down and always there to have a good time. Through the years I can honestly say sometimes people did not remember Don's name but they always knew the guy in the Black Cowboy Hat.

Don was there to invite me to a WGCSA Golf outing with a few of the local superintendents, he felt it would be great way to meet my neighbors, John Krutilla (Lake Lawn Lodge, Delevan, WI), Eric Peterson (Oak Ridge GC, Milton, WI) and of the "The Duke of Dirt" Don Ferger, County Club of Beloit. It also was a great way to get me involved in the WGCSA. That day I could hardly play golf my hand was so sore from shaking hands with everyone at the meeting. We all had a great day and I was hooked on the WGCSA Monthly Meeting.

During my tenure as the Superintendent then GM in Janesville my friendship with Don taught me many things about Golf Course Maintenance usually on a lesson from Don. By that time I met Don had his PHD from the school of Hard Knocks in Golf Course Maintenance. At the age of eighteen Don began work at the CC of Beloit under the direction of Fritz Rinehart. Fritz taught Don and another well-known Superintendent, Jeff Bottensek, all he knew about golf course management. There were many lessons to learn and many challenges ahead but both of Fritz's students became some of the best grass growers in the business. Upon Fritz's retirement the club promoted Don to Golf Course Superintendent. Don proudly served as such for nearly 45 years. Through the years Don had seen many changes in the golfing world and no matter what the members threw at him he caught it and made it happen. Don became the expert in the



course maintenance, equipment maintenance, ran an old quick coupler irrigation system until the early 2000's, maintained the pool and generally kept the members happy.

Most of all what Don did was to make people happy and share any and all of his knowledge. As that young superintendent I felt I was ready to take on the world until the world started fighting back. When I had problems on the course I could always call Don and he would be there as soon as he could. Don taught me some great turfgrass lesson and as my career changed from Superintendent to Sales Rep to UW Diagnostic Lab Manager I still remember those lessons. Many of the things Don taught me are still true today. I have shared the things Don taught me with countless other turfgrass managers and I will continue to share those tidbits with all those in need.

IN REMEMBRANCE

Besides being the guy in the Black Cowboy Hat, Don was very involved in his community. He was very involved in the Beloit Noon Lions Club. Don served as President of the Club, served on countless committees and was a past Lion of the Year. Don was dedicated to the Noon Lions Club and everyone knew when meeting were because Don was there. When the Beloit Memorial Football field was in need of repair Don was there to re-grade and re-surface the field. Beloit has their summer festival Riverfest and Don was always in charge of parking and spent many nights worried about rain and how that would destroy the turf in the park. Whenever Beloit needed something Don was there to assist.

Don was a family man and he is survived by his wife of 43 years Chris, His daughters Michelle (Gary) and Melissa

Michael), his son Michael (Crystal) and eight grandchildren, four step grandchildren, four step great grandchildren, four brothers and his mother. To know Don was to know his family he was very close to all his family and an active participant in all their lives.

When Don needed a break he would head north to the land in Rosholt where he and deceased WGCSA Member Brad Wagner bought a piece of land. The plan was to build a cabin there someday but at first they spent the nights in a tent and I re-call it might have been a leaky tent. After a few leaky nights in a tent Don and brad bought an old trailer and used that for years until they started the cabin. Don did get to see the completion of his dream cabin. Don and his friends and family spent many a short and long weekend there and I don't think they ever missed

deer camp. Don's last trip was with his family and friends to that cabin to enjoy his little slice of paradise.

This is a glimpse into the life of Don Ferger. I was thinking about sharing some stories about my travels and good times I spent with Don, but there are too many and I cannot choose and some should never be in print. If you want to hear a few funny stories ask me at the next meeting, or ask anyone of his friends we all have them. If you want the best stories maybe ask Jeff Bottensek, Conrad Stynchula and his traveling companion for 30 plus years John Krutilla. We would all be more then willing to share a few stories, that is our way to keep Don's memory alive!

Don may you rest in peace and spend eternity with Brad. The two of your are in charge of keeping the course looking good for us when we join you! ✓



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Couples Dinner

By Bruce Worzella, Retired

I WILL BE HOME SOON!

How many times have you said that when your wife or kids called and asked "what time will you be home"? Golf course superintendents are very dedicated professionals and treat their lay of the land as their own. Unfortunately, sometimes other very important things become second on the list and we hope family understands. Sound familiar, I was guilty of this many times.

In 1979, a young superintendent, new position at West Bend Country Club, and not knowing many fellows peers in the area, Red Roskopf, Woody Voight, and Wayne Otto asked me if I would be interested in helping on the social committee of the WGCSA. I agreed and what a better way to get involved and meet people, but did not know much about it. Our only focus was the WGCSA couples outing. We got together to pick a place in the state to play 9 holes of golf with our wives, then dinner and dancing later that evening. I never turn down a good time and spend it with my wife is even better.

First weekend in October was picked, Oshkosh CC the course, and the Pioneer Inn for dinner and dancing. What a great venue to meet fellow superintendents, sales representatives, and their better halves. Golf was very casual, with laughs, socializing after golf, and then a terrific dinner with dancing with our loved one, topped the evening. This was so enjoyable, that we decided to make it a three day event because of travel around the state. We met in LaCrosse, Minoqua, Elkhart Lake, and even West Bend to name a few. This was an event that we could thank our wives for their understanding, have them meet other wives with the same issues, and breathe a weekend of relief away from our job.

This event grew with the honoring of the Mr. & Mrs. Moe trophy that Rod Johnson

initiated, great sponsorship by turf companies holding hospitality hours and gifts, a special birthday gift for Cheryl Schmitt, and a unforgettable costume event. Even though Mary my wife took second in balloting of best costume, Miss Piggy was the winner.

This event went through many changes and times. People got busier with families, more demands on our jobs, and even get older and tired. Jeff Bottensek, A mentor and great friend of mine told me when I enter this profession that you kind of wish your life away. You wish it would rain, wish it would stop, even wish it would

snow after the irrigation and snow mold control was done. Here is a time that you and your loved one can spend a day or two just relaxing and enjoying the time.

This year's event is set for November 7, 2015 in Appleton. It is planned for a little socializing, dinner, and if want, walking downtown Appleton afterwards. Brett has done a lot of work arranging funds, setting up hotel and dinner menus. This is part of our heritage of our association, come and be a part. Watch for all the details and put it on your calendar.

P.S. There will be friendships made and memories never forgotten I guarantee.

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Pollinators and Insecticides

By Dr. R. Chris Williamson, Department of Entomology, University of Wisconsin-Madison

Much of the “buzz” in the news media is centered around the presumed association of insecticides, especially neonicotinoids (a.k.a. neonics), and the unclear decline of pollinating insects including honeybees and wild bees. Nearly all news stories emphasize research studies that suggest neonicotinoids are primarily responsible or have a detrimental or negative effect on bee feeding, learning and memory. After all, negative news is what best sells a story. Consequently, public perception tends to ascribe to this narrative implicating neonics as the primary culprit for pollinator decline. And, since perception more times than not equates to reality, it must be true? This is all the more reason that the Green Industry must make a concerted effort to address this issue “head-on.” And, it is imperative that we (as an industry) are not quick to pass judgment and jump to any conclusion regardless of our opinion or viewpoint regarding this sensitive and contentious issue.

We must exercise caution when formulating an opinion; all, not merely cherry-picked research data and information associated with this important issue, not emotions and perceptions, must prevail. Most of the research studies that the news media frequently likes to make reference-to or cite are laboratory studies that don’t represent field realistic (i.e., real-world) insecticide rates (amounts) that insect pollinators would likely experience or encounter in field setting where they typically live. There are published field-based research studies that have investigated the effects of neonicotinoid insecticides and pollinating insects, most show little effect of neonics on pollinators. However, the mainstream media or popular press tends to omit this important information to help support their narrative.

This does not mean that neonics are off the hook or don’t play a role in the de-



Two Honey Bees work on a honey comb. Honey bee colonies are declining for a number of factors. We as users of turf and landscape products must be sure to use them according to the label.

cline of pollinating insects. However, it does bring awareness to the importance of product stewardship, the judicious use of pesticides and the value of an integrated pest management (IPM) program.

So, where then lies actuality? First and foremost, an insecticide is a substance designed to kill an insect, and since honey bees and wild bees are insects; it is no surprise or mystery that insecticides can be detrimental to pollinating insects if they are not used appropriately and according to the pesticide label. As applicators of pesticides, we MUST be diligent in exercising good stewardship of the products (pesticides) that we use! Make certain to read and appropriately follow the label, after all it is the Law.

Bee decline is as a complex and complicated issue whereby many combined affronts can be implicated, merely one cause cannot be singled-out or blamed. Honeybees and wild bees are affected by habitat loss, and they can face nutritional deficiencies especially when areas of highly diverse flower plants such as prairies are replaced by large cropping systems (monocultures) where only one plant blooms at a time. In addition, social bees (e.g., honeybees) are affected by numerous colony pests and pathogens that compromise their immune system; factors such as diseases, parasites, pesticides (including fungicides, herbicides and insecticides), habitat loss and poor nutrition can all contribute to pollinator decline. ✓

Monroe Miller Inducted at Field Day 2015

By Tom Schwab, Manager, O.J Noer Turfgrass Research and Educational Facility, University of Wisconsin-Madison

One more successful WTA Summer Field Day is in the books. A special event started out this year's Field Day. After WTA President Paul Huggett finished the welcoming messages and introductions, Tom Halter, from the WI Green Industry Federation (WGIF), presented their 2015 WGIF Hall of Fame Award. This year's recipient was retired WTA Ambassador and golf course superintendent Monroe Miller. Tom talked about Monroe's contributions to the green industry that have touched the lives of every turf manager in Wisconsin. He mentioned Monroe's drive, vision, dedication, and professionalism that have led to some grand accomplishments. A few of these accomplishments include building the

OJ Noer Turfgrass Research and Education Facility, establishing four Wisconsin Distinguished Graduate Fellowships at the UW-Madison, and providing funds to hire two turfgrass research faculty. In accepting the award, Monroe humbly admitted he was one small part of achieving these and other goals with the help of many green industry leaders. But we all know Monroe was not a small part, but instead a major force in achieving these goals. He also played an important role in garnering an outstanding reputation for all of Wisconsin's green industries. He is indeed a very deserving recipient of the 2015 WGIF Hall of Fame. Congratulations, Monroe!

A spectacular array of turfgrass educa-

tion followed this opening/award session. The education was great but the crowds were modest compared to previous years. It may have been the hot/humid weather and high probability of rain that kept people away. But the rain never materialized, and partly cloudy skies and mild breezes kept the weather bearable. Regardless, there were 182 attendees, along with 71 vendors representing 28 companies at this year's show. Everyone enjoyed the day and soaked up the outstanding education.

Education came in the form of six general presentations in the morning followed by a large trade show. Next came the always wonderful Wisconsin style lunch followed by eight golf turf presentations.



Monroe Miller holding his plaque pictured with WGIF Board Member and WTA President Paul Huggett, WGIF Executive Director Brian Swingle, and WGIF Board Member and Chair of the Hall of Fame Committee Tom Halter

NOTES FROM THE NOER

The morning and afternoon research tours included the following presentations and presenters:

- Tree trunk injection technology, by Curt Andrews (ISA Certified Arborist), John Deere Landscapes
- Turfgrass species identification, by Dr. Paul Koch, UW-Madison
- Backpack sprayer calibration, by Bruce Schweiger, UW-Madison
- Soil drenching injection techniques, by P.J. Liesch, UW-Madison
- Pollinators and insecticides, by Dr. Chris Williamson, UW-Madison
- Improving lawns with compost, by Dr. Doug Soldat, UW-Madison
- Ant control on putting greens, by Dr. Chris Williamson, UW-Madison
- Reduced risk disease management and dollar spot prediction model, by Dr. Paul Koch, UW-Madison
- Nitrogen impact on dollar spot



and update from the CDGA, by Ron Townsend and Dr. Ed Nangle, Chicago District Golf Association and Dr. Paul Koch, UW-Madison

- Potassium soil test requirements, by Dr. Doug Soldat, UW-Madison
- Carbon and nitrogen in turfgrass soils, by Sabrina Ruis, UW-Madison
- Fine fescue fairway drought tolerance, by Maggie Reiter, University of Minnesota
- Weed control in unmowed areas, by

Dr. Doug Soldat, UW-Madison

- Use of drones for turf management, by Dr. Bill Kreuser, University of Nebraska

A detailed description of these presentations may be found in the Field Day tour book. Contact Audra Anderson at audra.anderson@wisc.edu or 608-845-6536 if you missed Field Day and would like one mailed to you. Or go to www.wisconsin-turfgrassassociation.org and find the tour book under the Field Day link. But you shouldn't have missed Field Day. There is nothing like being there in person and soaking up the trade show and current education. The event is also such a good way to gather with peers to see how their season is going. It is always my favorite event of the year.

Lastly, please thank the 2015 Field Day exhibitors, listed here, who help bring this wonderful event to you every year. ✓



A overhead shot right after field day shows how expansive the reserach is. The wetting agent study in the middle right stands out with green squares and brown. With rain on the way Dr. Soldat kept his research update brief when he simply said "Wetting agents, they work".

Thank You Exhibitors!

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J W Turf

John Deere Landscapes

L T Rich Products

NuFarm

Pendleton Turf Supply

ProGro Solutions

Rain Bird

Reinders

Soil O2 Solutions

Syngenta

TerraMax

The Andersons

Waupaca Sand & Solutions



'Soil O2 Solutions' demonstrates their no-surface-disruption aeration machine. Watching in person the ground clearly moved and settled back down with each air blast.

Beth Duschack, Sara Bojar, and Erin Goode from Dow AgroSciences help make the tradeshow an informative destination



State Amateur Visits Erin Hills

By David Brandenburg, Editor, The Grass Roots

The 114th Wisconsin State Amateur Championship was held at Erin Hills Golf Club in Erin over July 20 to 23.

Erin Hills is a Hurdzan, Fry, Whitten course build in 2005 with a "minimalist style and design flowing the natural contours formed from receding glaciers.

Although originally conceived with thoughts of a low budget, low input public facility plans quickly changed as the USGA became interested in hosting a U.S. Open on the property.

The layout provides flexibility to accommodate a wide variety of skill levels with the gold tees playing a manageable 5,109 yards with the black tees being stretched to over 7,800 yards to challenge the best players in the world.

Erin Hill's hosted the 2008 U.S. Women's Public Links Championship and the 2011 U.S. Amateur so tournament conditions are a natural for the walking only layout. The 2015 State Amateur will serve as a warmup for the 2017 U.S. Open.

Eddie Wajda from Oconomowoc Golf Club won this years event with a 4 round score of 293 or 5 over par to take home the Sinnissippi Cup. Tied for second were Matthew Bachmann, Bull at Pinehurst Farms and Patrick Sanchez, Brown Deere Park Golf Course.

The Legends Clubs took home the Yule Cup team championship contested over

the first 36 holes. Brown Deer GC and La Crosse CC came in a close second.

Erin Hills features A-4 bentgrass greens, pencross tees and the unique fairways are fine fescue with 80% chewings and 20% slender creeper.

According to Golf Course Superintendent Zach Reineking the fine fescue fairways provide a excellent playing surface but can be difficult to maintain in the mid-west weather and soils.

The 140 acres of unmowed fescue rough consists of hard, sheeps and red creeper fescue. The un-mowed areas are beautiful to look at, challenging for the player and anything but maintenance free. Time and resources are spent to maintain a perfect density and keep invasive weeds at a minimum.

Zach entered the golf industry as a caddie at Pine Hills Country Club in Sheboygan at the age of 13 as knew he wanted to work in the green industry. As a caddie he was able to see how the members interacted with and respected Superintendent Rod Johnson.

Reineking's caddie job allowed him to receive a Evans Scholarship and he entered UW-Madison for landscape architecture. After the second semester of sitting behind a drafting table he realized how much he missed the outdoors. One day he was venting his frustrations to fellow

Evans Scholar Steve Houlihan and Steven suggested he talk to Soils Professor Dr. Wayne Kussow.

After 45 minutes with Dr. Kussow Zach changed his class schedule and had a internship at Blackwolf Run for the summer. There he worked for Jeff Wilson and fell in love with the idea of being a golf course superintendent.

After two summers at Blackwolf Run Zach worked at The Oaks Golf Course during the 2004 school year and then interned at Whistling Straits in 2004 and 2005 before joining the staff at Erin Hills in as assistant in 2005 and superintendent in 2009.

Zach was quick to thank his staff and point out his three senior members; John Jacques, Alex Beson – Crone, and Adam Ayers.

Although recent rains have Erin Hills greener and softer than expected for a typical July the course looked incredible and played the same. Players raved about the conditions and setup.

Over the past couple years the staff has worked on putting the finishing touches on the layout with new tees and bunkers and actually moved 3 greens.

In less than two years the worlds best golfers will be in town for the U.S. Open and Zach and his team will be ready for them.



The bunkers protecting the Par4 8th Hole are deep and penal. The hole plays 250 to 490 yards depending on the tee selected.

2015 WSGA Amateur Championship

Qualifying Sites

South Hills G&CC, Fond du Lac
 Washington County GC, Hartford
 Rivermoor GC, Waterford
 Maple Bluff CC, Madison
 Bull's Eye CC, Wisconsin Rapids
 Western Lakes GC, Pewaukee
 Whitnall Park GC, Hales Corners
 The Golf Courses of Lawsonia, Links, Green Lake
 Drugans Castle Mound CC, Holmen
 Wild Ridge GC, Eau Claire

Member 9 With Zach Reineking

1. **First Vehicle?** 1992 Pontiac Grand AM GT
2. **Favorite Piece of Golf Course Equipment?** A TDR from Spectrum Technologies, hard to remember what we did before this technology was available.
3. **18 Hole Handicap?** 18, I wish I played more.
4. **Current Vehicle?** 2015 Ford Exhibition.
5. **Favorite TV Show?** True Detective.
6. **Favorite Pro Sports Team?** Packers, but love anything to do with the Badgers
7. **Favorite Main Course Meal?** Pizza, you just cannot go wrong with pizza for any meal.
8. **Pets?** A black labradoodle named Buster who comes to work with me everyday and I am embarrassed to say but a cat named Oliver who I am learning to like.
9. **Favorite Thing About Working In Golf Industry?** I love the dynamic nature of being a superintendent, on any given day I am a soil scientist, agronomist, accountant, and human resources director; always something new and never boring.

Right: Rolling on the Par5 14th Hole. The winding layout plays from 435 to 614 yards.

Below: Mowing the Par5 7th Hole which plays from 389 to 605 yards.



Future WSGA Amateur Championship Sites

2016 - North Shore Golf Club, Menasha, Host Superintendent - Scott Schaller

2017 - Oconomowoc Club, Oconomowoc, Host Superintendent - Dustin Riley

2018 - Minocqua Country Club, Minocqua, Host Superintendent - William Stein

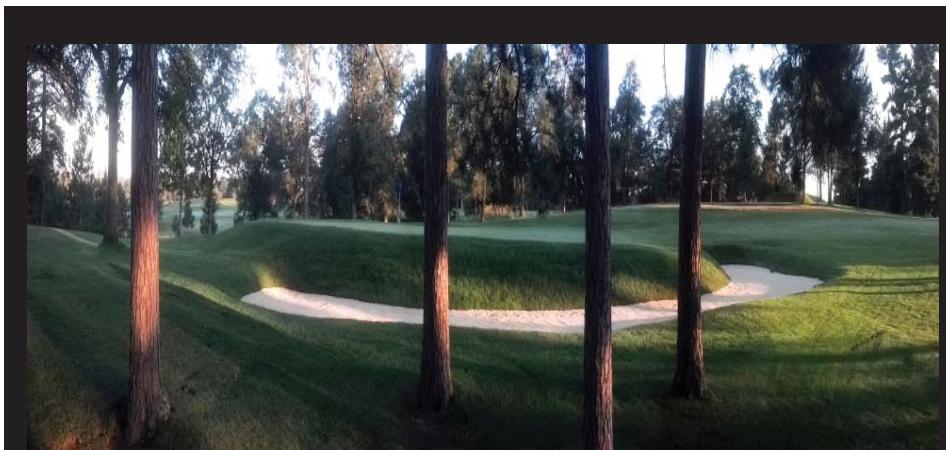
COVER STORY



Left: Mower on 7 Approach with 18, the Clubhouse and Holy Hill in the background.

Below Left: The view from one of the many greenside bunkers on hole 9.

Below Right: Fairway mowers working in tandem on hole 3.



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Above: Mowing operations on the Par4 3rd Hole which plays 302 to 478 yards.

Below Left: The first wave of players on the Par4 10th Hole playing 298 to 504 yards.

Below Right: Mowing the natural looking tees on the 16th.



Summer Is Slipping By!

By David Brandenburg, Editor, The Grass Roots



It is with sadness we announce that 42 year WGCSA Member John Feiner passed away on July 30 at his residence.

John was a common participant in our monthly meetings and always had a smile on his face. John owned and operated Public Golf Associates with his partner Scott Schuit.

John was 66 when he passed away and is survived by his wife Nancy and children



Jack and Katharine and brother Thomas.

Jim Penkowitz, 80 also passed away April 2 in Grafton. After serving in the Air Force from 1953 to 1957 Jim worked at the Plymouth A&P Grocery store for 9 years when he joined the Plymouth Police Force retiring in 1986.

Starting a second career Jim joined the grounds staff at Quit Qui Oc Golf Club in Elkhart Lake and worked his way up to superintendent until he retired again in 2006.

Jim is survived by his wife Lois and children Michael, Karen and Jeffery.

Congratulations to Alexa Ferrie, daughter of Brian Ferrie, superintendent at Horseshoe Bay Golf Club in Egg Harbor, WI.

Alexa is majoring in psychology at the University of Minnesota and has received a \$1,500 Legacy Scholarship from the GCSAA.

Mike Keiser announced that David Kidd has been hired to design the second course at Sand Valley Golf Resort just south of Wisconsin Rapids. Kidd has worked for Keiser before when he designed Bandon Dunes in Oregon.

Kidd's design is scheduled to open in 2018 while the first 18 holes designed by Bill Coore and Ben Creshaw is scheduled to open in 2017.

It is exciting time for golf in Wisconsin with the U.S. Open coming to Erin Hills in 2017 and the Ryder Cup coming to Whistling Straits in 2020. The 5th course by the Kohler Company is still moving along in the permit stage and is planned for just south of Sheboygan.

2016 will also see the PGA Tour return to Wisconsin when University Ridge in Madison plays host to a Champions Tour event June 24-26. PGA players Steve Stricker and Jerry Kelly worked behind the scenes to bring the American Family Insurance Championship to Madison.

The tour left in 2009 when the Greater Milwaukee Open / U.S. Bank left after 42 years in Milwaukee.

Not quite as big but very unique is the U.S. Hickory Open will be held at the Links Course at The Golf Courses of Lawsonia Sept 22-24, 2016. The national championship is held annually and will feel at home at the links layout in Green Lake.

If you're interested in going back in time and testing your skills with Hickory

clubs you can join the 50 or so Wisconsin Hickory Players and play in one of 6 of their local events. You can find more information at www.hickorykummelcup.com.

Dennis McCann reported in the July/August issue of Wisconsin Golfer that Clifton Highlands in Prescott is taking a chance on technology and has purchased 8 GolfBoards for customer use. The article states use has been steady with users



of different ages and backgrounds.

It may help that Clifton Highlands is a short drive from the technologically advanced Minneapolis and its residents.

The boards are a cross between a skateboard, scooter and a Segway and may be seen at a golf shop near you soon.

From the moisture charts on the next page you can see most of the state has had ample rainfall over the past three months. However you can also see the past month has found dry conditions in parts of the state. Normal high temperatures are dropping each day and the length of daylight is getting noticeably shorter from June 20th.

The main turf pest I have seen in Fond du Lac is dollar spot especially in the untreated rough.

EDITOR'S NOTEBOOK

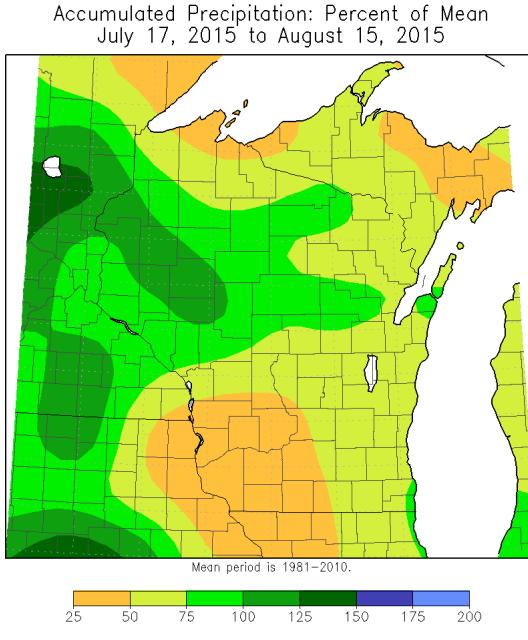
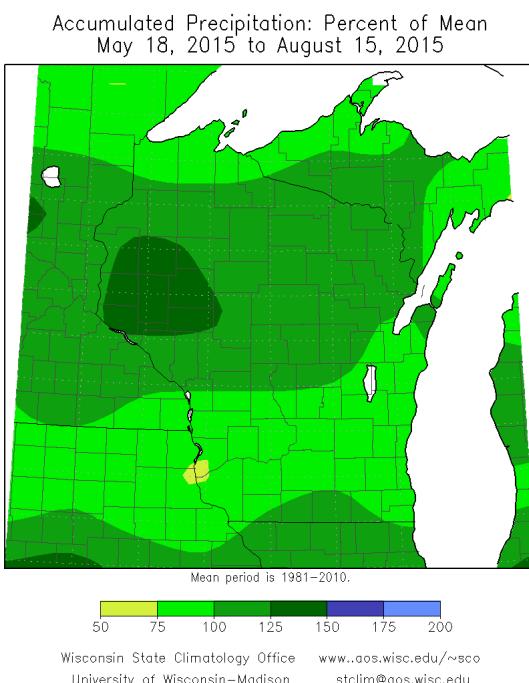
We have confirmed the ash borer is on site during some recent tree removal. For us most of our ash trees are cheap green and white ash near the end of their useful life anyway so we are not treating the trees with insecticides.

If you ever want customers to talk to you just cut down a few trees to get conversation flowing. Most have forgotten the warnings I and the local news reports that the ash borer is coming and will kill every untreated trees.

Most are more worried about where the wood is going more than the visual changes the loss of trees will provide.

* * * * *

What if you threw a party and no one came? As most of you



know Rolling Meadows agreed to host the July association meeting but the event was cancelled when only a few members signed up.

The association leaders listened to your survey comments requesting some casual and social events and offered this low-key 9 hole golf or footgolf event.

I realize July is a tough month to get away from the course and maybe the footgolf scared some away even though it was optional but it was disappointingly only three signed up before the deadline.

These are your events and if you do not take advantage of them the sponsors will no longer sponsor them and clubs will not open their doors to our association.

This particular event was unique but for our 18 hole events the club often gives up a afternoon of member or public play to host our group. Extra work is put in to prepare meals and the course for our enjoyment.

I have been attending events for over 25 years and although I do not feel like one of the old guys I guess I am one. I can honestly say I have not attended a event where I was disappointed or where I did not learn something I could take back to my course.

Enjoy the end of summer and the shorter days of fall. Be sure to take time to enjoy the sunrises we see every day! 



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