



Wisconsin TURFGRASS NEWS

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WINTER 2004

Can You Volunteer For an Important "Day?"

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



Members from 14 different Wisconsin turf, landscape, and growers organizations met on October 26th, 2004 in Waukesha to discuss a "Green Industry Day on the Hill". This plan will bring together green industry members with their state legislators to point out how important the industry is to Wisconsin's economy. Many members of the green industry are needed to volunteer to participate in this "Day" to make the plan a success.

Brian Swingle, executive director of the Wisconsin Landscape Federation (WLF), is coordinating the event to educate legislators about the green industry and its economic impact in Wisconsin. He started by contacting 14 different green industry organizations to send a representative to Waukesha to discuss the feasibility of having this "Day on the Hill." Everyone present thought this would be a beneficial program to publicize our importance to law makers.

The "Green Industry Day on the Hill" will take place on February 15th, 2005 in Madison. We will begin by meeting at the Inn on the Park in downtown Madison, where participants will be given an issues statement to present to the individual legislator we meet. The program will run from 9:00 to 1:45 and lunch will be provided.

The reason it's important to have this "Day on the Hill" right now is because of the newly conducted Wisconsin Green Industry Survey. This independent and thus un-biased survey, conducted by the Wisconsin Agricultural Statistics Service, found that Wisconsin's green industry contributes over \$2.7 billion annually while providing over 43,000 jobs to the state's economy. The purpose of our meeting with legislators is to impress the importance of this economic impact. We are not meeting to lobby any specific laws. It will be a positive meeting to get to know each other and for us to promote the green industry. Then at a later time when an issue comes up that may impact our industry, they will know who to contact before making decisions.

Future decision that could impact us are issues of pesticide and fertilizer use, small business taxes and

benefits, pesticide posting, land and water use, advancements in plant breeding, invasive species, and other environmental concerns. We are the people in the trenches working to promote healthy plant growth and a clean environment. They need to know we are affected by their decision-making and that we are there to supply expertise before laws are changed.

A couple hundred people are needed in order to make this day a success. Our goal is to have representatives of the green industry from every corner of Wisconsin. You don't have to be a political creature to volunteer to help. You just need to be concerned about plants, the environment, and your business. It is important for many members of the green industry to participate in this "Day." Please call Brian Swingle if you can participate at 414-529-4705, or return the registration form (that is inserted in the newsletter) to the WLF office in Greenfield, Wisconsin. If you prefer you may contact a board member from any of the participating associations listed below. They will have the meeting information as well.

"Green Industry Day on the Hill" Participating Associations and Organizations:

Commercial Flower Growers of Wisconsin
Gardens Beautiful Garden Centers
Grounds Management Association of Wisconsin
Northern Great Lakes Golf Course
Superintendents Association
Wisconsin & Upper Michigan Florist Association
Wisconsin Arborists Association
Wisconsin Christmas Tree Producers Association
Wisconsin Golf Course Owners Association
Wisconsin Golf Course Superintendents
Association
Wisconsin Landscape Contractors Association
Wisconsin Nursery Association
Wisconsin Sod Producers
Wisconsin Sports Turf Managers Association
Wisconsin Turfgrass Association

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Promising To Be a Good One

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

The 2005 Wisconsin Turfgrass and Greenscape EXPO promises to be one of the best green industry educational events of the year. The WTA EXPO planning committee has been making plans for this year's show since last March. The dates for the show are January 11th and 12th. So many knowledgeable speakers and important subjects, along with an expansive trade show will be there — you will not want to miss out. For those in the golf industry, there will be a WGCSA/GCSAA educational seminar held in conjunction with EXPO on January 10th.

The location for EXPO is its traditional venue, the Marriott West in Middleton, which has plenty of rooms for the large trade show and numerous seminars. Numerous seminar rooms are needed because three different turf presentations are held concurrently. There are talks for those in the golf industry, sports turf industry, and lawn care and landscaping industry. This is where EXPO gets exciting to talk about.

The roster of speakers is exceptional. The opening session will star recently retired UW-Madison athletic director Pat Richter. Mr. Richter was the longest tenured director of athletics in the Big Ten Conference. He took a program that was failing both athletically and financially and turned it into the nation's 10th best, according to the Sporting News in 2001. He'll have many interesting UW athletic stories that you won't want to miss.

You likewise won't want to miss the roundtable discussion about "The Phosphorus Controversy," which is scheduled right after Pat Richter's presentation. There will be experts from both sides of the fence discussing the issues. The roundtable will include specialists from the DNR, UW Limnology Department, UW Soil Science Department, and US Geological Survey.

You'll be further enlightened after that by the exceptional roster of seminar speakers. The speakers include Dr. Bruce Martin from Clemson University. Many of you are familiar with Dr. Martin who gives exceptional seminars at the GCSAA National Convention. He will give several presentations to include; "Rapid Blight in Cool Season Turfgrasses - A New and Unusual Turf Disease" and "Designing Summer Disease Control Programs for Managing Bentgrass".

Another veteran turf specialist is Dr. Mike Agnew from Syngenta, who is giving two important disease presentations. His talks are, "Improving Fungicide and Plant Growth Regulator Performance" and "Anthracnose on Poa Annua Greens".

Someone known to everyone in the sports field industry is Pam Sherratt. She is coming to EXPO from the Ohio State University where she serves as



Gabe Lopez from Reinders talks irrigation with John Tucker from The Oaks Golf Course during the huge trade show at EXPO 2004.

sports turf extension specialist. She writes their popular sports turf web page and speaks at many national and local conferences on sports turf issues.

The list of acclaimed speakers goes on and on. There is Dr. Brian Horgan from the University of Minnesota, Bob Vavrek from the USGA Green Section, Paul Zwaska from Beacon Ballfields, Rich Riggs from Rettler Association, and many others. The UW turf program professors will also have several presentations during the day in addition to their "Research on Parade" segment.

The educational presentations are only part of what EXPO is about. There is also a huge trade show to experience. Over 40 vendors to the turf industry will be there to answer all your equipment, supplies, products, and services questions. These vendors will help you grow healthier grass and have a successful upcoming season.

The next growing season will be here before you know it. Be prepared by attending EXPO to gain the latest turf industry knowledge available. Conference registration brochures were mailed in late November. Contact Audra if you need any further information about this outstanding show at 608-845-6536 or ajander2@wisc.edu.

Our keynote speaker, pictured in his early years, playing for the Badgers

Three-year starter Pat Richter (88) catches one of his 121 career receptions as a UW tight end during a football game in Camp Randall Stadium.

Richter later served as UW Athletic Director from 1989 to 2003.



Photo: Courtesy UW Sports Information



Science to Management: The New Applied Turfgrass Science Journal

By Dr. John Stier, Department of Horticulture, University of Wisconsin-Madison

Last month the new journal *Applied Turfgrass Science* went on-line. The new journal is hosted by the Plant Management Network (PMN) out of Minneapolis, MN. Turfgrass practitioners, including consultants, golf course superintendents, lawn care operators, sports turf managers, sod producers, product and equipment suppliers, and others are the intended audience.

Articles and other information can be viewed at www.plantmanagementnetwork.org. The types of articles include applied research, turfgrass management and diagnostic guides, news and opinions, and letters to the editor.

Research articles are intended to be directly useful to turfgrass practitioners, as are the management and diagnostic guides. The news section will describe new products, label revisions, and current events that affect the turf industry on a national scale.

A minimal subscription fee is charged: \$45 annually for a personal membership and \$38 if the individual is a member of affiliated groups such as Crop Science Society of America, American Phytopathological Society, Pioneer Hi-Bred, and many others. Individuals who are members of organizations or

associations who become partners with PMN will have free access.

The hope is that eventually all national and state turfgrass associations such as GCSAA, STMA, WSPA, WTA, and WGCSA will become partners, with their dues paying the subscription rates for all members. Access to other journals hosted by PMN is included with a subscription: Fungicide and Nematicide Tests, Biological and Cultural Tests, Forage and Grazinglands, Crop Management, and Plant Health Progress.

New journals will be added in the future, with the site likely to become the premier source of up-to-date science and information for turfgrass practitioners. As a turf professional, you are encouraged to submit articles or letters that are important to your industry.

Don't hesitate, check out the site today! Let your association know that the journal can be an important tool for you, and with the association's partnership, it can be made freely available to all members. Feel free to call me (608-262-1624) or contact the editor, Dr. Mike Richardson, who is listed on the website if you have questions or suggestions to make the site even more useful for you. 🍀

Turfgrass Diagnostic Lab to Update Fee Schedule

By Steve Abler and Dr. Geunhwa Jung, Turfgrass Diagnostic Lab, Department of Plant Pathology
University of Wisconsin-Madison

There will be a significant change in the fee schedule for the TDL starting in 2005. The fee for professional samples received from non-contract members of the TDL will be increased; however the fee for contract members will remain unchanged. Please refer to the TDL services table to see the updated fee schedule. The reason for this change is due to the fact that the lab does not receive any state or university support, and does not generate nearly enough money to pay basic lab expenses. This puts a strain on plant pathology research funds and grants which are used to cover the difference. Furthermore, a survey of other turfgrass labs shows that the new fees are comparable with

the prices already charged by most other states.

This means that it has never been a better time to support the TDL by becoming a contract member. Contracts are valid for the calendar year and range from \$100 to \$1000. Signing up is quick and easy and the benefits of being a contract member include reduced rates on diagnoses with written reports as well as added features such as a free annual disease workshop, disease alerts via email, and the yearly University of Wisconsin-Madison turfgrass research results. Becoming a contract member is a great way

to ensure that the Turfgrass Diagnostic Lab will be there when you need it in the future. If you have any questions about the new fee schedule or want information on how to become a contract member please contact the TDL at (608) 845-2535 or swa@plantpath.wisc.edu. 🍀

2005 Turfgrass Diagnostic Lab Services and Fees

TDL Service	Non-Member	TDL Member
Diagnosis With Phone Report	\$100	\$100
Diagnosis With Phone & Written Report	\$125	\$100
Out of State Fee	\$25	\$0
Site Visit	\$250	\$250*
Annual Disease Workshop	not included	included
Disease Alert Emails	not included	included
UW Turfgrass Research Results	not included	included

*Contractors at the \$1000 level receive one complimentary site visit.

President's Message

Making Plans for Next Season

By Rich Riggs, WTA President



As I write this article, it is the day before the 2004 gun deer season. This signals the unofficial end to the growing season for much of Wisconsin. I hope you all had a successful growing season and for those of you that hunt, success there too. The high school football teams are finishing up their state championships and most of the college teams have one or two regular season games left. Many of the golf courses have also closed for the season.

I always use this time of year to review the past season and look for ways to improve my work for next season. One place to achieve this is by attending industry conferences and professional development events. The Wisconsin Turfgrass and Greenscape EXPO is scheduled at the Marriott Madison-West on January 11th & 12th, 2005, which

is an excellent venue to sharpen your professional skills. It is packed with two days of educational sessions, trade show, and times to discuss concerns with your fellow professionals.

I would also encourage you to join your professional organizations if you are not already a member. These organizations provide numerous benefits and services and are always open to new ideas to help improve the association. In addition, you could join or attend the board meetings or serve on a committee. The organizations are there for your benefit. So get involved and let your voice be heard.

I hope you all had a great 2004 season and wish you the best for 2005. I look forward to seeing many of you at the coming events. 🍀

MEET THE UW-MADISON GRADUATE STUDENTS

Understanding Dollar Spot Resistance in Creeping Bentgrass through the Tools of Linkage Mapping and QTL Analysis

By Nanda Chakraborty and Dr. Geunhwa Jung, Department of Plant Pathology
University of Wisconsin-Madison

Throughout my studies in India, I was trained as a botanist with particular emphasis on plant diseases. So when I applied to the Department of Plant Pathology to pursue my PhD, I was focused to study a particular disease resistance mechanism. I was looking for a project that would give me the opportunity to not only understand the biology of the disease resistance, but the outcome of my study should also have a practical implication in the industry. Therefore, I was interested in participating in Dr. Jung's project, which was involved studying dollar spot resistance in creeping bentgrass using molecular markers. The long-term goal of this project is the identification and application of DNA markers linked to disease resistance for marker-assisted selection in a bentgrass breeding program.

Dollar spot, caused by *Sclerotinia homoeocarpa* F. T. Bennett, is a major disease of turfgrasses throughout the world. It is the most prevalent and economically important turf disease in North America, particularly on intensively managed golf course putting greens and closely mown fairways. Different research methods can be used to improve current management strategies used to combat this



disease. For example, research indicates that dollar spot severity can be reduced in a blended population by mixing a resistant bentgrass cultivar with a susceptible cultivar. Significant disease reduction has also been reported after removal of dew through morning mowing or poling treatments or both. Dollar spot management, like other turf diseases, is highly dependent on fungicide application. The causal fungus has, however, developed resis-

tance to several important classes of fungicides such as benzimidazoles, dicarboximides and demethylation inhibitors (DMI). Some fungicides have not been re-registered due to environmental concerns. This has stimulated research into alternative disease management strategies such as host resistance.

Previous reports indicate that dollar spot resistance in creeping bentgrass is controlled by more than one gene, and research has also shown that dollar spot resistance is a heritable character. Therefore, improvement of dollar spot resistance in creeping bentgrass is achievable through breeding.

Currently, we do not know the number of chromosomal regions, the location, or the effect of the chromosomal regions that are associated to dollar spot resistance. Therefore in our project, we are using the tools of DNA markers along with field evaluation of a creeping bentgrass population for dollar spot resistance to map the genes for resistance on the creeping bentgrass chromosomes.

The population for our field study was generated from a single cross between two creeping bentgrass clones, which were chosen from more than 700 clones collected from golf course fairways and greens throughout Wisconsin. The parental clone named 372 is less susceptible while the parent 549 is more susceptible to dollar spot. To evaluate the progeny population for field resistance to dollar spot, we established our 697 progeny plants at the O.J. Noer Research Facility, Verona, WI, into a plot that was maintained as a fairway. The plot has been inoculated with artificial inoculum prepared from a single isolate in June 2004. Over the years we have seen that this location always experiences severe dollar spot disease pressure if no fungicides are applied. In addition, another inocu-

lation plot was established on August 19th, 2003 for a second dollar spot trial at Gateway golf course in northern WI. This plot was inoculated similarly in July 2004. We were able to detect segregation among the progeny at both field locations for dollar spot resistance, with the parents being intermediate. We identified certain progeny individuals with low disease severity and fine shoot density.

Our next step was to use the phenotypic or disease severity data along with the molecular marker data to identify the number, location and effect of genes contributing to the dollar spot resistance through linkage map construction and QTL (quantitative trait locus) analysis. The linkage map shows the relative location of molecular markers on hypothetical bentgrass chromosomes whereas the QTL analysis detects the molecular marker/markers that are linked to the disease resistance. We detected three genomic regions with one particular region being very strongly associated to dollar spot resistance consistently as the disease progressed through the summer, and also across locations.

Our findings clearly show that there is a strong genetic component that governs dollar spot resistance in creeping bentgrass. Dollar spot resistance in bentgrass would considerably decrease the need for fungicide applications on bentgrass.

Molecular markers are used in many crop systems for identification of novel genes and marker-assisted selection. Currently molecular markers for dollar spot resistance are unavailable. Therefore identification of molecular markers tightly linked to the resistance will assist breeders in utilizing the germplasm resources for marker-assisted selection in a creeping bentgrass breeding program. 🌱



Steinke Wins 2004 Watson Fellowship

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

Kurt Steinke, a Ph.D. student in Horticulture with Dr. John Stier, won the national Watson Fellowship last week. The \$5000 award is presented annually by the Golf Course Superintendents Association of America and Toro, Inc., recognizing outstanding graduate students from the nation's 40+ university turf programs. Kurt's research focuses on utilizing turf and prairie buffer strips to mitigate contaminated water runoff from urban areas. Kurt will travel to Orlando, Florida to receive his award at the annual GCSAA/Golf Course Owner's Association international conference in February 2005. 🌱



**Kurt's presentations
always draw a crowd at
WTA Summer Field Day**

Brown Deer Park Golf Club - Excellent Venue for the Fundraiser

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

The Wisconsin Turfgrass Association Golf Fundraiser, which was generously hosted by Brown Deer Park Golf Club on September 15th, exceeded expectations for 2004. You may be asking, "What expectations could possibly be exceeded for this customarily successful event?" The event usually sells out and the weather has been perfect the past four years. We've always played exceptional golf courses. The feature that pushed this year's event over the top was the mystique of the golf course. The PGA of America had a tournament stop on this course only one month previous during the U.S. Bank Championship. The WTA Fundraiser participants felt the excitement of playing the same course that the best golfers in the country play on.

Our hosts, Brian Zimmerman and Tim Wegner, should feel proud to have the course in such great condition both for the U.S. Bank and later for us. We not only thank them for the conditions but likewise for giving up their course to help raise money to benefit the WTA Wisconsin Distinguished Graduate Fellowship in Turfgrass Research (WDGF). The event raised \$8,500 this year. This money came from registration fees, low fixed costs, and hole sponsors. The list of sponsors is listed here.

The current objective of the WTA Golf Fundraiser is to raise funds to establish another WDGF. Three of these Fellowships are currently funded. There is one in the Soil Science Department and two in the Horticulture Department

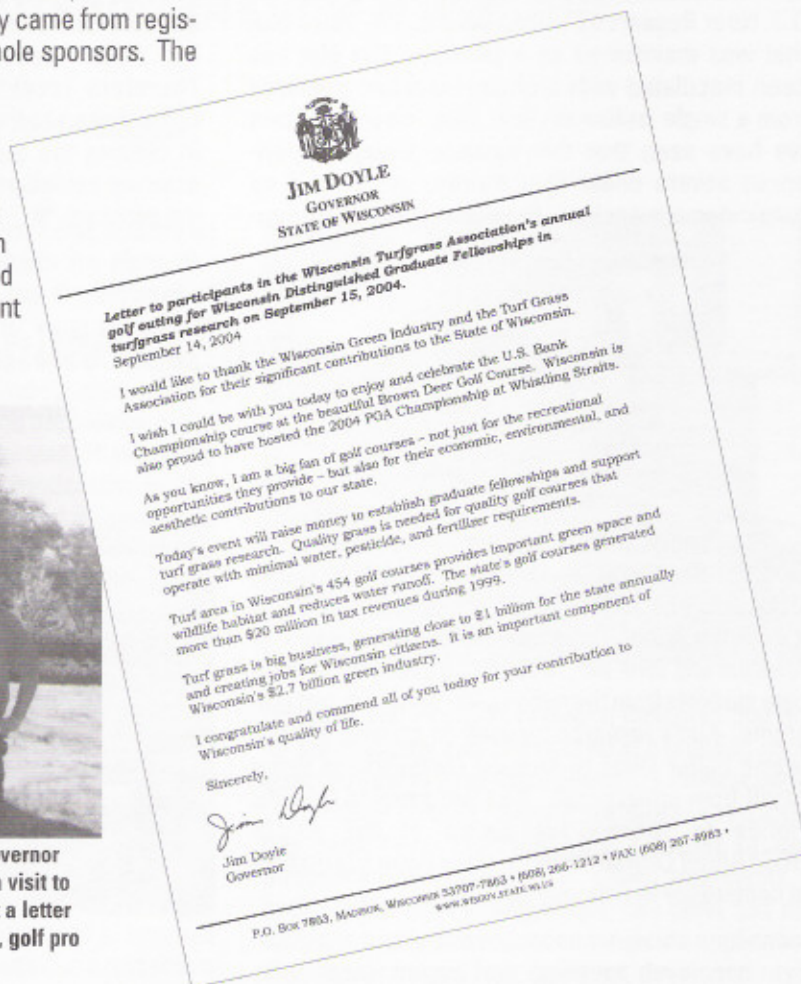
at the UW-Madison. Each WDGF provides finances for graduate students to do turfgrass studies for both today and in the future. Each participant should feel proud to support this turfgrass research initiative.

Participants were more likely concentrating on their golf game though. The weather presented some challenges. Although the temperature was wonderfully warm in the mid 70's, the wind presented a challenge. Club selection became quite important as the wind would gust up to 25 mph. The skies were full of threatening clouds but only one very brief rain occurred. Everyone felt exhilarated and despite the wind, several very fine team scores were turned in.

The winner of the fundraiser scramble event was the foursome of Worzella, Weiterman, Gagan, and McGuire with a score of 12 under par. However all golfers were treated like winners. Everyone took home a door prize and was treated to a wonderful buffet lunch before golf and hors d'oeuvres after golf. The list of door prizes and donors is listed here to tell you what you could



Brian Swingle, from the WI Landscape Federation, reads a letter from Governor Jim Doyle. Governor Doyle was invited to the WTA Golf Fundraiser, but a visit to Madison from Senator John Kerry preempted him being with us. He sent a letter on his behalf which is included here. To Brian's left is pictured our hosts, golf pro Scott Evans and Superintendents Brian Zimmerman and Tim Wegner.



have won if you attended. Some prizes were given anonymously thus several donators are not listed.

This event is one of the premier turf industry events of the season. Participants have a wonderful time while supporting a worthy cause. Brown Deer Park Golf Club was a fun golf course and excellent venue to play golf, be with friends, and raise money to support turfgrass research. I hope you can make it next time if you missed it this year. 🍏



Robert Nolen, from the UW Division of Information Technology, finesses another one in close.



Mike Lyons and Chris Gray bring their ace, Steve Kaiser, along to help them attempt to win the event.



The multitude of golfers anticipating the start call.

Door Prizes for WTA Golf Fundraiser 2004

<u>Donor</u>	<u>Prize</u>
Aquamaster	.2 Golf Shirts, Golf Vest
Aquatrols	.Picnic Chair
Bayer	.2 Golf Shirts, Golf Umbrella, Dozen Golf Balls
Bridges Golf Club	.Jacket
Brown Deer Park Golf Club	.Golf Shirt
Chuck Schwab	.2 Golf Shirts, 2 Dozen Golf Balls
Dan Quast	.Golf Bag
Evergreen Country Club	.2 Foursomes of Golf
Green Bay Country Club	.Golf Shirt
Hunter	.Carhart Jacket, Ping Putter, 2 \$75 Cabella Sports Gift Certificates
Joe Kuta	.Dozen Golf Balls
John Deere	.3 Golf Shirts
John Hegge	.2 Badger Football Tickets, Smokey Joe Grill, Dozen Golf Balls
JW Turf	.Wind Jacket, Hats
Lawsonia	.Foursome of Golf
Maple Bluff Country Club	.Windshirt, Putter, Wedge
Monroe Country Club	.Windshirt, Golf Club, Cheese Basket, Case of Beer
National Seed	.Hats, Golf Shirt
Olds Seed Solutions	.2 Umbrellas
Pendelton Turf	.Case of Beer, \$100 Home Depot Gift Certificate
Rock River Country Club	.Golf Sweatshirt
Stoughton Country Club	.Foursome of Golf with Carts
Syngenta	.3 Wind Shirts and Caps
Tom Schwab	.2 Cases of Beer
University Ridge	.Putter, Golf Shirt
Waupaca Sand	.CD Player
Westmoor Country Club	.Golf Shirt
Whistling Straits	.50 PGA Championship Golf Caps
WI River Golf Club	.Foursome of Golf



2004 WTA Golf Fundraiser Hole Sponsors

- Agrotain International - UMAXX
- Aquatrols
- Bayer
- DHD Tree Products Inc
- Geunhwa Jung
- Hunter Golf
- J W Turf Inc
- Lesco, Inc
- Lohmann Golf Designs
- Long Island Farm
- Long Sod Farms, Inc
- Maple Bluff Country Club
- North Shore Country Club
- Olds Seed Solutions
- Pendelton Turf Supply
- ProSource One
- Sentryworld
- Sue Kershasky
- Syngenta
- Tiziani Golf Car Corp
- Tom Schwab
- Wayne Kussow
- Westmoor Country Club Grounds & Greens Committee
- Westmoor Country Club Grounds & Greens

History of the New Land Addition

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

Several years ago, it became obvious that the present size of the Noer Facility was too small. Nearly all the plots had research on them, and the researchers knew they'd soon be turning away important projects for lack of research space unless we did something about the shortage of land. Five years ago we started to remedy this problem by making plans to increase the number of research plots by 50%. One half of that goal was completed in 2004, after 5 years of strategizing and work.

32 new irrigated plots were added to our existing 128. Another 32 plots will be added in a second and final phase after more funds are raised. This will complete the new land expansion. We may need to start raising those funds fairly quickly with the fast pace that the researchers are installing projects on the new land. They already have claimed 19 of the 32 plots for new research projects in this first season.

But before we move onto the second phase of the expansion, we need to thank the generous contributors that got us this far.

The expansion would not have been possible without their generosity. The researchers in the UW Turf Program are very thankful for all the support. Here is a basic history of how we got to this point and who helped get us there:

2000 - A new irrigation well and pump were installed through a generous grant from the UW College of Agricultural and Life Sciences (CALs). Additionally, a variable speed drive pump and control package were provided by Watertronics, who steeply discounted the price. This well and pump were designed to provide enough water for a new addition if and when built.

2002 - The University owned a

10 acre plot of land adjacent to the Noer Facility that they allowed us to have, but the land was too hilly and not suitable for turf research. The Bruce Company generously agreed to reshape the land and to charge the Noer Facility for time and materials only. CALs provided another grant to pay those time and materials expenses. Rettler Corporation then donated the time to draw up a grading blueprint to reshape the land. Olds Seed Solutions and Spring Valley donated all the seed and fertilizer to grow in the land.

2004 - Irrigation was installed by the Noer Facility staff. All the materials were provided through these generous donations listed below. 🍀



New plots are pictured in the foreground with the rest of the Noer Facility at the back

Abbey Springs Golf Club	\$500.00
Bull's Eye Country Club	40 x Valve Boxes
Cedar Creek Country Club	2 x Toro Network 8000 Satellites
Eagle River Golf Club	\$250.00
Green Bay Country Club	\$1,000.00
Merrill Hills Country Club	\$150.00
Oscar Miles	\$100.00
Pendelton Turf Supply	\$200.00
Regency Wire	25,000' of Wire
Reinders	Rental of Trencher and System Design
Spears	110 x Swing Joints
Syngenta	\$1,500.00
Toro	Sprinkler Heads
Watts Regulator	1 x 4" Gate Valve
WGCSA	\$2,500.00

Watch Out If We Come Your Way

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

The end of the summer signals the time for the rookies to hit the links. The UW-Turf Group gathers for a season-ending golf outing every year before the students leave and the professors go back to teaching. Most of the professors and staff at the Noer Facility don't have much time to work on their golf games during the season, but they still braved it to hit the links for our annual crew golf outing.

This year's host was David Walter from Deer Valley Golf Course in Barneveld. The day we visited Deer Valley was a beautiful, sunny, warm afternoon in late August. We just loved the steep valleys and endless natural flora that makes up this gem of a golf course. The terrain of Barneveld makes some of the holes so interesting and unique to this course. I'd strongly recommend this course to anyone.

Our turf group sure enjoyed themselves. There were even a few nice shots hit during the day. Walter Thieszen, from the Ag Research Station crew, has played golf twice in his life, yet he placed it 12 feet from the hole on the par 3 hole #5 and then proceeded to birdie the hole. This hole plays 105 yards but drops off a cliff that is about as high as the hole is long. Steve Houlihan from Dr. Kussow's crew made lots of nice shots all day shooting a score in the 70s. Good shots were few and far between for the rest of us, but we had a blast.

We'd like to thank Dave Walter for his hospitality. This likewise goes for all the other golf courses that have hosted this annual event. I hope we didn't scare away any regular customers with our golf games. As far as all the lost golf balls, we'll have to hope to get them back for Christmas. 🍀



Dr. Kussow says, "Who moved the hole?"



Walter Thieszen's birdie hole.



Dr. Jung brought his son Roy along to teach him the game.



The smiles on everyone's face express the fun day we had at Deer Valley.

CALENDAR OF EVENTS

Jan 10	GCSAA/WGCSA Educational Seminar	Marriott Madison -West
Jan 11,12	WI Turfgrass and Greenscape EXPO	Marriott Madison -West
Jan 12	WNA Winter Workshop	Country Inn, Pewaukee
Jan 19-21	Mid-Am Trade Show	Chicago
Jan 19-23	STMA Conference and Exhibition	Phoenix, AZ
Feb 2-4	TPI Midwinter Conference	Cancun, MX
Feb 7-12	Golf Industry Show (Formerly GCSAA)	Orlando, FL
Feb 15	Green Industry Day on the Hill	Inn on the Park, Madison
Feb 17	PAT - Pesticide Applicator Training (Turf)	Waukesha
Feb 20-22	WLF Winter Convention	American Club, Kohler
Feb. 21-25	School of Turfgrass Management	Madison
Mar 3	PAT - Pesticide Applicator Training (Turf)	Eau Claire
Mar 4	PAT - Pesticide Applicator Training (Turf)	Green Bay
Mar 10	PAT - Pesticide Applicator Training (Turf)	Arlington
Mar 16,17	Reinders Turf & Irrigation Conference	Waukesha Expo Center, Waukesha
Mar 23	PAT - Pesticide Applicator Training (Turf)	Waukesha
Apr 8	PAT - Pesticide Applicator Training (Turf)	Waukesha

WTA Members — If you have an important date you'd like to share with other members —
Call 608-845-6895 or Fax 608-845-8162 and let us include it in the next calendar.

Contact Telephone Numbers

GCSAA	Golf Course Superintendents Association of America	800-472-7878
GIS	Golf Industry Show (Formerly GCSAA Golf Conference)	800-472-7878
Day on Hill	Green Industry Day on the Hill	414-529-4705
Mid Am	Mid Am Trade Show	-847-526-2010
NGLGCSA	Northern Great Lakes Golf Course Superintendents Assoc.	630-443-1008
PAT	Pesticide Applicator Training (Turf and Landscape)	608-262-7588
Reinders	Reinders Turf & Irrigation Conference	800-782-3300
STMA	Sports Turf Manager Association	800-323-3875
TPI	Turf Producers International Midwinter Conference.....	800-405-8873
School	UW/ University of MN School of Turfgrass Management	608-262-1624
WGCSA	Wisconsin Golf Course Superintendents Association.....	414-786-4303
WLF	Wisconsin Landscape Federation Winter Convention	414-529-4705
WNA	WNA Winter Workshop	414-529-4705
WSTMA	Wisconsin Sports Turf Manager Association	608-845-6895
WTA	Wisconsin Turfgrass Association	608-845-6536