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**Contact for
GDGCSA
Information**

Kate Mason
Executive Secretary

GDGCSA
P.O. Box 173, Troy, MI 48099
(248) 362-1108
Fax: (248) 362-1736
E-Mail: gdgcsa@aol.com

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A Patch of Green - 4 - Fall Issue, 1998

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on par ^{with}_{the} president



Fall is finally upon us and it's the best season of the year. This summer I said, "come on snow" almost weekly. It was a year that had everything. We had no snowfall and mild temperatures during the winter and May was one of the driest ever. Strong winds around July 4th knocked down numerous trees and August was hot and humid with dew points above 70°, ideal for brown patch and pythium. September has been ideal, but too dry for comfort. We had to daily water as of October 1st; we even started to water large transplanted trees from two years ago.

Even with this summer, the Board of Directors continued to give quality programs throughout the year. I would like to thank all the members who volunteered to serve on committees. Also, I'd like to recognize editor Tim Dorner and Kate Mason for putting this quality magazine together. This winter, write an article for the magazine and receive credit towards future meetings. Many people are working on new irrigation systems, which is an excellent topic.

Getting ready for the 1999 season can start by attending the Fall Management Seminar on October 29, 1998 and the GCSAA Seminar, Superintendent as Grow-in Manager, on November 10, 1998. Also, the Christmas Party is slated for December 5, 1998 at Grosse Ile Golf and Country Club.

Hope this winter cooperates, and by February I'll start saying "come on spring" with a refreshed body and mind.

Sincerely,

A handwritten signature in cursive script that reads "Paul T. Kolbe".

Paul T. Kolbe

In Remembrance of Gerald Kleino

Gerald Kleino, Manager/Superintendent of Rammler Golf Course, died on August 24, 1998 at the age of 48. Gerald was a member of GDGCSA since 1982. He started working at Rammler in 1968 at age 18 on the grounds crew and over the course of the next few years became the Golf Course Superintendent. He eventually assumed the role of Manager/Superintendent. Gerald was a life-long resident of the eastside and great friend and colleague to those who knew him. Gerald's biggest passion was hunting and fishing in Michigan's north country. He will be greatly missed by those who knew him.

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Managing Summer Stress Syndrome On Putting Greens

by J. M. Vargas, Jr., Professor
Department of Botany and Plant Pathology, M.S.U.

Many greens begin to thin during the summer stress period. The thinning of turf on the greens is usually accompanied by a shortening of the roots. This thinning can be especially severe on greens growing in poor environments. This would include greens that are growing where trees restrict air movement or prevent morning sun from reaching the green. This syndrome was originally called "creeping bentgrass decline." The phenomenon has since also been observed on bermuda grass and annual bluegrass greens. It is now referred to by some as "summer stress syndrome."

There are many cultural practices that can be done to alleviate this problem. Greens that have limited air movement become thin because the turfgrass plants cannot transpire properly during the warm weather to cool themselves. Plants cool themselves during the warm weather by transpiring in much the same way people do by perspiring. In both cases, as the air passes over the plant's surface or your skin, moisture evaporates and cools the plant or the person. If the plant cannot transpire for lack of air movement, temperatures can rise to over 125° F on warm humid days, causing a denaturation of the proteins and eventual death of the plants. The simple solution is usually the removal of the trees, but this is often difficult to do because of membership resistance. The next best option is the use of fans to supply air movement across the greens.

Lack of morning sun during the warm weather of July and August can be devastating to greens, especially creeping bentgrass greens. Annual bluegrass, because of its more efficient photosynthesis mechanism, will survive better with lack of morning sun; although it too will not be as healthy as where it receives morning sun. Turfgrass plants only photosynthesize during the cool weather of the morning. By the time they receive the afternoon sun, the internal temperature in the plant is so high that the photosynthetic mechanism has shut down. Respiration increases with increasing temperature, burning up the stored carbohydrates, and since photosynthesis isn't occurring at a normal rate, the plants eventually "starve" themselves to death.

Good aerification and top-dressing practices should be done on a regular basis to insure the greens will be in as healthy a condition as possible going into the summer stress period. It is also important to limit the amount of nitrogen applied at any one time, especially with fertilizers which have a high

salt index. We often find over 1000 ppm of salt in the upper inch of samples sent to our lab for disease identification. Salt levels that high in the upper inch of sand on a green will result in the greens wilting and dying.

Over the past few years, we have been experimenting with a new fungicide program that not only controls turfgrass diseases, but also improves the quality of the turfgrass during the heat stress period of summer. The program consists of applying Aliette Signature in combination with Daconil Ultrex, Thalonil, Fore, Chipco GT, or Protect. This program begins in mid-May and continues every other week through the first week in September. It results in a denser turf and deeper roots on the greens. The program has been successful on both creeping bentgrass and annual bluegrass greens. In addition, this program controls the major foliar diseases dollar spot, brown patch and pythium blight that occur during summer. The key is starting early. If you wait until the greens go under stress, it is too late to apply any of these combinations to remedy the situation. It may be too late to do anything about the problems you had this year, but it is not too early to plan your cultural and chemical program for next year. It is also the ideal time tree removal!





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ANNUAL BUSINESS MEETING HIGHLIGHTS

By Rick Murphy

This year's annual business meeting was held at The Polo Fields Golf & Country Club on September 28, 1998. Our host for the day was Mark McKinley. Mark and his staff had the course in splendid shape for the 48 golfers who attended. This year, the golfers competed for the annual golf championship. The weather was fantastic, the fairways firm and the greens rolled true and fast! It was a great day and after the final scores were tallied, the following champions were crowned:

Championship Flight

Low Gross - Colby Pace (Champion)

Low Net - Tim Smith

First Flight

Low Gross - Ron Abbott

Low Net - Paul Schneeberger

Second Flight

Low Gross - Jon Shreve

Low Net - Miles Hicks

Vendor Flight

Low gross - Tom Gill

Low Net - Mike Brannigan

Congratulations to all of the winners and especially to Colby Pace, our new association champion.

After enjoying a fine gourmet meal, the annual business meeting and election took place. This year's slate of candidates included Tim Dorner, Terry Poley and Rick Murphy. Dorner and Murphy were re-elected to a 3-year term. The Board thanked Poley for running and appreciated his desire to help run the association. Please refer to the minutes of this meeting located herein for discussion of other business matters. Upcoming Association functions are as follows:

October 29

The Wolfrom Classic (Maple Lanes)

October 23

The Fall Mgt. Meeting (Novi Hilton)

November 10

The Superintendent as Growing Manager -
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Tonia Branch and Pete Jackson display door prizes for the annual outing

The Big Event

Barton Hills C.C., Bay Pointe C.C., Lochmoor Club, Oak Pointe and Katke Cousins were the sites for the Annual GDGCSA Golf Day Fundraiser known as The Big Event. October 5th marked the 33rd year for this association sponsored event. Cloudy conditions produced lower than normal temperatures for the first week of October, but that did not keep over 400 participants from coming out to help raise over \$27,000 for turfgrass research and scholarships. This year was the first year that the event was played as a scramble format, which was met with a favorable

reponse from most of the participants. All the participants raved about the playing conditions of the host courses. Kudos to Rick Murphy of Bay Pointe, Tom Schall of Oak Pointe, Mike Jones of Lochmoor, Jay Delcamp of Katke Cousins, Tim Dark of Barton Hills and their staffs for all the hard work preparing their courses for this annual day of fun and golf.

After golf, all the participants went to Bay Pointe for the dinner and prize drawings. The staff at Bay Pointe provided an excellent meal and service. Over 200 prizes were given away, including a 27" color TV and many other electronic items, golf merchandise, gift certificates, dinner tickets, theater tickets and several nice golf packages. Eight \$300 winners were selected in the 50/50 raffle and ten \$50 winners were selected in the mulligan drawing. Thanks to Mindy Knight of Zep Manufacturing, Tonia Branch of the GAM and Jim McGuire of McGuire Sales for dedicating their time and effort selling tickets for the 50/50 raffle.

A special thanks goes to the donors of the door prizes and the boards of directors of Barton Hills, Oak Pointe, Lochmoor, the management staff at Katke Cousins and the owners of Bay Pointe for allowing us to use their courses for this important event. Their support helps make our event the largest turfgrass fundraiser in the state. Also, thanks to the Big Event committee and Kate Mason for all their hard work and preparation. Without their dedication and hard work, Golf Day would not be the successful event that it has become.



Host superintendents (l. to r.) Tom Schall of Oak Pointe, Mike Jones of Lochmoor, Jay Delcamp of Katke Cousins and Rick Murphy of Bay Pointe. Not pictured, Tim Dark of Barton Hills



The superintendents and their guests really enjoyed themselves at the awards banquet after a great day of golf!

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The Role of Hand Watering and Manual Irrigation in Golf Management

by David B. Beck, P.E.

Hand watering is one of the most common forms of water application on a golf course. Hand watering provides the superintendent an active and highly tactile form of managing golf course turfgrass. In effect, most superintendents who hand water feel that they are actively participating in the cultivation of their turfgrasses. But in reality, how effective is hand watering? Very little research has been devoted to this subject which plays such a large role in golf course water management. Consulting irrigation engineers themselves disagree on the role hand watering should play in turf cultivation¹.

Although there are a few instances where hand watering is beneficial, overall I highly discourage hand watering within the coverage areas of an automated irrigation system. Most well designed, constructed and operated golf course irrigation systems have the ability to control and distribute water with far greater accuracy than a person with a hose. When hand watering within the limits of these systems, superintendents begin a cycle which ultimately results in the loss of water distribution control. Personnel applying water by hand are unable to accurately judge the total depth of water added to any area. Although attempting to provide even water distribution, hand watering generally results in areas receiving excessive water while other areas directly adjacent receive little or no water. Automatic sprinklers are then adjusted to compensate for underirrigated areas and overall irrigation efficiency is reduced.

The primary culprits in the inefficiencies of hand watering are the excessively high applications rates which can result from hand watering and golf course infiltration rates which are extremely small². Although manual irrigators are providing water to dry spots, the high application rates result in water running off to the base of mounds and slopes. Believe it or not, the water is not staying where it is placed. This complicates irrigation applications with the automatic sprinklers and generally results in a cycle of wet and dry areas. Automatic irrigation is adjusted to compensate for spots missed by hand watering, further hand watering is perceived as a solution, more wet and dry areas appear, nozzles are changed to compensate, and the cycle spins out of control.

Whenever a superintendent perceives the need to hand water areas within the sprinkler pattern of their automatic irrigation system they will generally be far better off to make adjustments in sprinkler run times. Even though most sprinklers are not immensely accurate in their sprinkler distribution patterns, a person hand watering will never be able to apply water by hand as evenly as a sprinkler. Most scenarios which are perceived to need hand watering are small dry areas which are associated with improper irrigation system management or deficiencies in irrigation system design and construction. Superintendents will be generally far better off if these deficiencies are identified and corrected than to start the hand watering cycle. If a small area is dry, adjust the individual sprinkler covering that area up by 20 percent, manually activate the sprinkler for several minutes to catch it up with the rest of the system and monitor for possible further adjustments. If a superintendent sees both wet and dry areas (slopes and tops of mounds are dry and low areas are wet) under the same sprinkler it is likely this is a result of runoff. To minimize this problem, change system operation^{3,4}, resist the urge start the hand watering cycle.

All manual irrigation is not bad. Situations where hand watering may be required can be found with excessively poor system coverage or supplemental watering in non-irrigated areas. Additional applications for hand watering may be syringing a green or watering in fertilizer, but generally a well-constructed automatic irrigation system will provide better results than hand watering. In summary, hand watering is highly labor intensive, results in extremely high water application rates and reduces the efficiency of automatic irrigation systems. New, well-constructed automatic irrigation systems should require no hand watering within the sprinkler coverage areas. If wet and dry areas are present try changing the way you are watering. By ending the cycle of wet and dry areas associated with hand watering and allowing the automatic irrigation system to do its job, superintendents can spend their valuable time in other areas on the golf course.

¹ Vinchesi, B. E., "Quick Coupling Valves", *Turf: North* Vol. 7, No. 2, February 1994, p. 54-55.

² Beck, D.B. "Soil Moisture Infiltration Rates" *Irrigation Corner A Patch of Green*, Spring 1998, p. 19-20

³ Beck, D. B. "Central Control Methodology for Golf Course Irrigation Scheduling" *Northwest Turfgrass Topics*, Fall 1997.

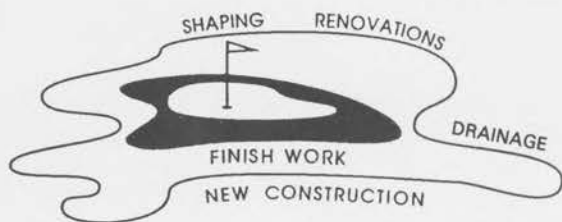
⁴ Beck, D.B. "Irrigation Scheduling: Getting the Most From Your Central Controller" *A Patch of Green*, Summer, 1997.



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The Ultimate "Golf Widow"

By Peg Czerkies

I knew what I was getting myself into. It was 1978 when he went straight from the prom to Cog Hill without first going home to sleep, and I knew. You see, it was already 3 a.m., and he couldn't be late for work. In another two hours, he should be changing cups, mowing greens, etc., and otherwise beginning to learn this trade that would consume life eternally.

As a golf superintendent's wife, I consider myself lucky in a lot of ways. It takes an ambitious man to put in the kind of hours that he does. Sending him out to spend the day doing something he hated in order to support his family would be a tremendous guilt trip for me. Instead, he is doing what he loves to do and is constantly rewarded by the progress he sees. From April to November, he is there to see his results, seven days a week.

As you know, any wife of a superintendent has to deal with her husband sacrificing family time in order to be at his golf course making sure everything runs smoothly. It's not only his job on the line, it is also his name in the business. Any of you who have gotten married in the summer and now have to spend all of your anniversaries at home, knows what I mean! If any of your children were born in the summer, I hope you had loving, caring people around to help out. Getting your husband to take time off during the golf season for ANYTHING (besides actually getting to play golf), is totally impossible. That family camping trip when the kids are out of school is virtually nonexistent, unless you're taking them yourself. This is not a bad idea. We have built some really great memories over the years.

The fact is, if I want to have a life in the summer, I'm on my own, because my husband is always going to be at work. There is a positive side to his work schedule, though. Because his day begins and ends so early, he is able to spend time with the kids.

We wives see very little of our husbands during "the season". You really have to work hard at creating quality time. Unless you're one of those wonderful women who gets up before the crack of dawn to make breakfast for her man, the first time you see him will be after work. This can be dangerous. He is tired, grumpy and stressed out. He wants to eat, take a shower, and he's hoping he can get "Seinfeld" in before he falls asleep. Don't let this "end of the day" image become who he is to you. He must be pleasant sometime during the day, or he wouldn't have a job. Here are a few tips I have discovered.

I suggest shocking him in the morning with a fresh pot of coffee and a smiling face (caution: I don't do this very often. If I spoil him, I'd be locked into getting up every

day). He won't know what to think, and we might even strike up a conversation. If I want to talk to him at all, I never turn on the weather channel! He would be glued to it like he was the Super Bowl. Superintendents watch it obsessively; with their weather radios, weather computers, and every scientific toy on the market, nothing replaces the weather channel. "It changes every ten minutes, you know!" The only thing that challenges the weather channel on TV, for Kevin, is sports. It is also the only thing that makes me thankful that he has chosen the weather channel to watch instead.

If breakfast doesn't work, or if it works so well that I want more time with him, I like to invade his world for lunch. Seeing him in his element is quite an experience, especially if he has a crew to boss around. You can also learn some Spanish that they don't teach you in high school. I can see first hand what kind of insanely busy day he has facing him every time he wakes up. Not that I don't appreciate that now, but seeing it really helps me to be a little nicer to him when he comes home. He really doesn't just ride around the golf course in his cart all day.

These are the ways that I get to see the different facets of my husband's personality and confirm that during this hectic season of work, there is, in fact, still some beauty left in the beast. I wouldn't recommend getting into his world too often; it is still his turf (no pun intended). They work so hard during the golf season, it is amazing to me that they still know who we are at the end of it all. When people ask me if my husband works in the winter, I tell them "just barely, he only works 40 hours a week then!"

There is a definite difference between a "regular" golf widow and a superintendent's wife. Golfers don't go back at night just to make sure the course is still there. Our husbands do. When golfers are not on the course, they are at work. Even when our husbands are working, they are on the golf course. At least ordinary golf widows can learn how to play, or just drive the cart, and maybe spend some time with the man they married. We can do that too, but I believe it pays more to learn how you can include yourself into this time spent working.

For example, if he has to go back at night, I see what I can do to help. Helping him with the routine tasks lets him know that his work is interesting to me, and it can be fun. I'll ask him to demonstrate his irrigation system for me. He seems to be very proud of his water pipes. If we're lucky, we get to see some non-paying, freeloading, after-hours, walk-on golfer get hit with about 20,000 pounds of water pressure. Life's little rewards are all in his day's work. If you really want him to admit he needs you, get his Border collie to fall in love with you. (*cont. on p. 17*)



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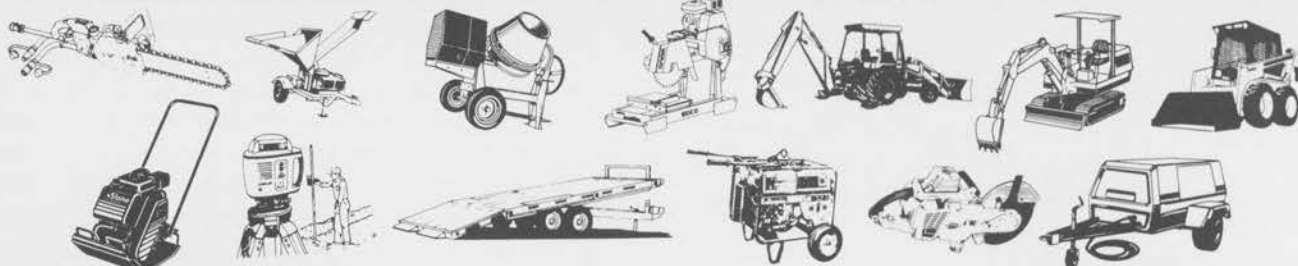
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("Golf Widow", cont.) Man's best friend is she who can handle his dog!

OK. I was hired. I fell in love with this dog faster than he fell in love with me. The Park District hired me to travel to various parks and chase geese with Mick, the dog. It was either I take the job, or let some stranger work with him in the parks, thereby confusing my precious pup even further with three people to have to take orders from. It really has been great, though. If you have ever seen these dogs work, it is quite a rush. When picking up my dog from the golf course to do my park route, I have learned a few things about life in the golf course workplace:

1. Most of the money won on a golf course is not betting on your game. It is betting whether or not it takes that novice golfer less than 10 shots to make it to the green.

2. You don't have to speak Spanish to communicate with your crew. Slow, broken English with a heavy Ricky Ricardo accent will do nicely.

3. The most vile and contemptuous creatures on earth are those pesky honkers (geese, not golfers). They make a mess every eight minutes, and they know how to play head games with your dog.

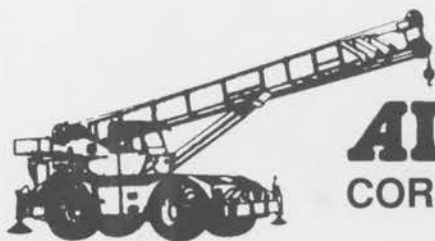
Being an "ultimate golf widow" sometimes has advantages. It teaches me to be independent. I also love knowing that my husband's job is to nurture a little piece of the earth. I have learned to appreciate his work through the beauty of the golf course. It is incredible the

way the moon can shine through the trees and beam onto the strip of green velvet that is the fairway, and the gift of a perfect green cannot even be described. All this means that Mother Nature is on her throne, and Kevin is happy. His golf course truly is his Emerald City, and he is the Wizard. The Wizard: you know, the man responsible for all the magic, yet still the man behind the curtain who no one pays any attention to?

When I think of what he goes through during the season, it makes it much easier to let him go on his convention alone. He needs time to be on his own without having to answer to anyone but himself. He's earned it! It's funny though, when I go with him, the convention is work, work, work. It's only when I stay home that he seems to have the really big fun. It was easy to be resentful of him when we had very little ones at home. Again, this is where I had to make my own fun. Now, my kids and I usually head north to ski at convention time! It's much better to trade stories when you get back together than to hear about all the fun you missed.

The game of golf has been very good to us. At 17, I fell in love with a blonde kid on the high school golf team. It was then that I knew that I would someday be married to a golf course superintendent. I pray that his career doesn't turn him into an old man before his time. I knew what I was getting myself into when, on our first date, he turned to me and asked, "Want to see where I work?" I've always known, and I have no regrets.

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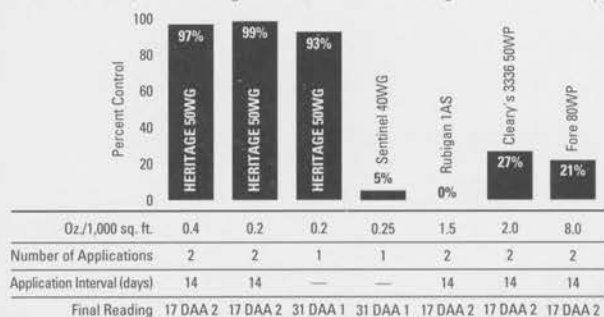
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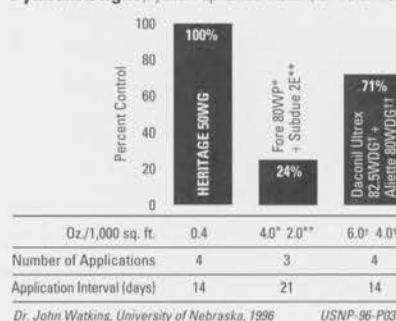
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Anthracnose¹ (*Colletotrichum graminicola*) on 80% Annual Bluegrass, 20% Perennial Ryegrass



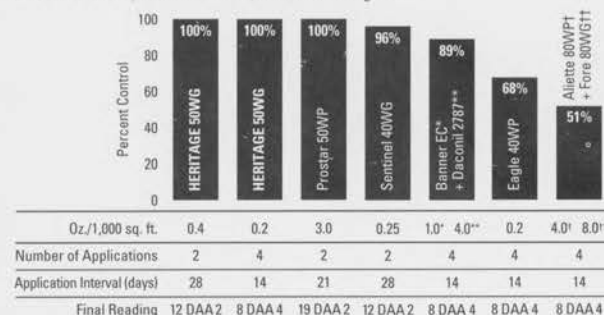
Dr. Don Scott, Purdue University, 1995
¹ Also isolated from plots: 2 species *Rhizoctonia*; 3 species *Pythium*; and several species *Phytophthora*.

Pythium Blight (*Pythium aphanidermatum*) on Perennial ryegrass



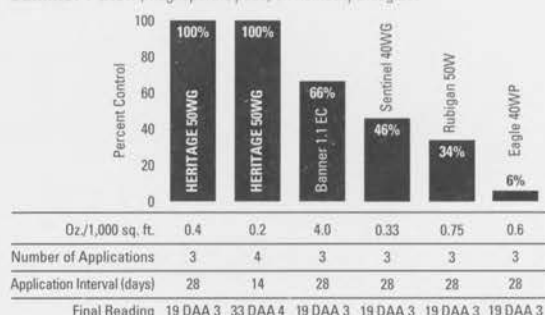
Dr. John Watkins, University of Nebraska, 1996 USNP-96-P030

Brown Patch (*Rhizoctonia solani*) on Colonial Bentgrass



Dr. Pat Sanders, Penn State University, 1994 US 66-94-P356

Summer Patch (*Magnaporthe poae*) on Kentucky Bluegrass



Dr. Bruce Clarke, Cooke College, Rutgers University, 1994 US 66-94-P362

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Board Meeting Highlights

Knollwood Country Club Monday, August 11, 1998

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FINANCE (McKinley)

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Foundation Checking: \$71.19 Savings: \$3,624.80

MEMBERSHIP (Thommes)

Membership 423. Applications approved - 2.

EDITORIAL (Dorner)

Midsummer issue going out Aug. 11

EDUCATION (Murphy/Jones)

August - Dinner meeting @ Oakland Hills canceled due to lack of participation.

Sept- Annual meeting, tentative date/site - 9/21 or 9/28 - Pine Lake

Oct 29 - Fall Management Meeting - Novi Hilton

Nov 10 - GCSAA Regional Seminar

Dec 8 - Birmingham CC- Superintendents Only

GOLF DAY (McKinley/Dorner)

Flyers & promotional letters inserted in *POG*. Box lunches to be served. Shotguns earlier to accommodate for travel time.

AWARDS (Murphy/McKinley)

Turfgrass Scholarship - Interviews scheduled for last week in Sept.

Heritage - Applications available last week in August.

SOCIAL (Schall/Abbott)

Picnic: Sunday, August 23 @ Kensington Park, Novi (East Boat Launch).

Clem Wolfrom Classic: Oct, Maple Lane GC

Christmas Party: Saturday, Dec. 5, Grosse Ile GC.

MICHIGAN ROOM (Jones/Abbott)

Room reserved for Feb. 10, 11 & 12 at the Omni Rosen.

TIES (Murphy)

Board members purchased matching ties for meetings.

ANNUAL MEETING (Kolbe)

Nominating Committee to choose nominees.

Board to prepare annual reports.

DELEGATE'S TRAVEL EXPENSE (E.S.)

Delegate's meeting in Sept. GCSAA pays for lodging, food and ground transportation. Assn. is responsible for air fare.

Approved night cost.





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Board Meeting Highlights Knollwood Country Club Monday, September 5, 1998

FINANCE (McKinley)

Assn Checking: \$84.21 Savings: \$14,872.32

Foundation Checking: \$990.72 Savings: \$2,630.28

MEMBERSHIP (Thommes)

Membership- 427. Applications approved - 3.

EDITORIAL (Dorner)

Holding up Fall issue to include Golf Day.

EDUCATION (Murphy/Jones)

Sept 28 - Annual meeting @ Polo Fields G & CC Oct 29

Fall Management Meeting - Novi Hilton Nov 10

GCSAA Regional Seminar- Novi Hilton

Dec 8 - Superintendents Only - Birmingham CC

GOLF DAY (McKinley/Dorner)

Clubs are filling up. Supts. are donating golf pkgs.

Vendors are donating sponsorships.

AWARDS (Murphy/McKinley)

Turfgrass Scholarship - Presentation made to turf students at MSU.

Interviews scheduled for the week of Sept. 28.

Presentation to be made at Golf Day.

Heritage Award - Notice of application availability mailed to membership.

Deadline to apply Nov. 1

SOCIAL (Schall/Abbott)

Picnic: 40 attendees - Great food and fun. Even though only a few members participate, it was agreed that the picnic is an important social event, benefiting all those involved.

Clem Wolf from Classic: Oct, 19, Maple Lane GC - Golf, buffet dinner with a night of Euchre to follow.

Christmas Party: Saturday, Dec. 5, Grosse Ile GC. Invitations to go out Nov. 1.

WELFARE (McKinley)

Condolences were sent to the wife and family of Gerald Kleino, Superintendent of Rammler Golf Club where Jerry had been for over 30 years. He had been a member since 1982. A donation was made to the Rainbow Foundation in his memory.

Phone Chain - Pres. Kolbe is investigating a computer program which would allow us to call all of our members and share necessary association info.

ANNUAL MEETING (Kolbe)

Nominations - Rick Murphy, Tim Dorner and Terry Poley running for two director positions. Written report will be made available to members attending.

RIEKE FOUNDATION (Kolbe)

Being considered as a recipient of a portion of Golf Day monies raised. Also, considering the GCSAA "Beauty of Golf" program as a recipient.

Industrial and Environmental News

by Rick Murphy, CGCS

Food Quality Protection Act (FQPA) Update

Hearings are still being conducted on the direction that this act is going to take. At this point in time, EPA officials have been unwilling to participate in meaningful debate on the issues. Some predict that the EPA will sacrifice non-agriculture uses to pacify larger agricultural interests. This could have a detrimental impact on the future availability of certain pesticides for use on the golf course. The GCSAA is urging superintendents to sustain a strong Congressional letter-writing campaign to Congress promoting reasonable implementation of FQPA based on sound scientific data and not on a pre-determined notion some pesticides are in need of elimination.

Of Interest

I was a bit surprised by this: House and Senate appropriations committee approved more than \$7.4 billion for the EPA for FY99 - a \$50 million increase from last year, but \$400 million less than requested! These are huge numbers, and I wonder if FQPA passes as intended

by the FPA, would the need to spend all this money go down, since the tracking of chemicals would be reduced significantly?

Facilities holding less than 75,000 gallons of gasoline would be exempt from filing MSDSs with state and local emergency planning and community right-to-know agencies under an EPA proposal. Currently, facilities with more than 1,600 gallons of gasoline are required to file the reports, Wonderful! It looks like the EPA is taking a reasonable man approach on this issue.



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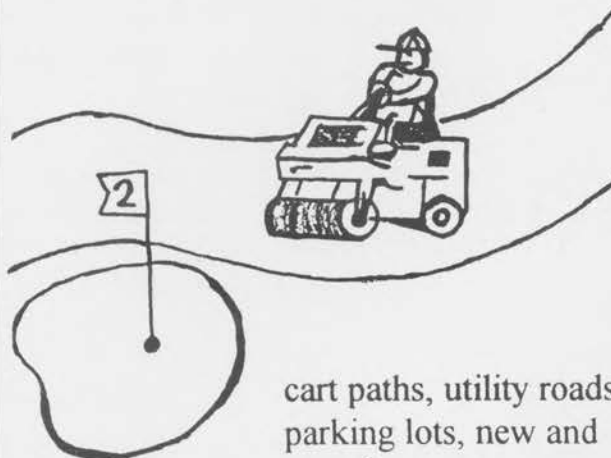
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New Member Roster

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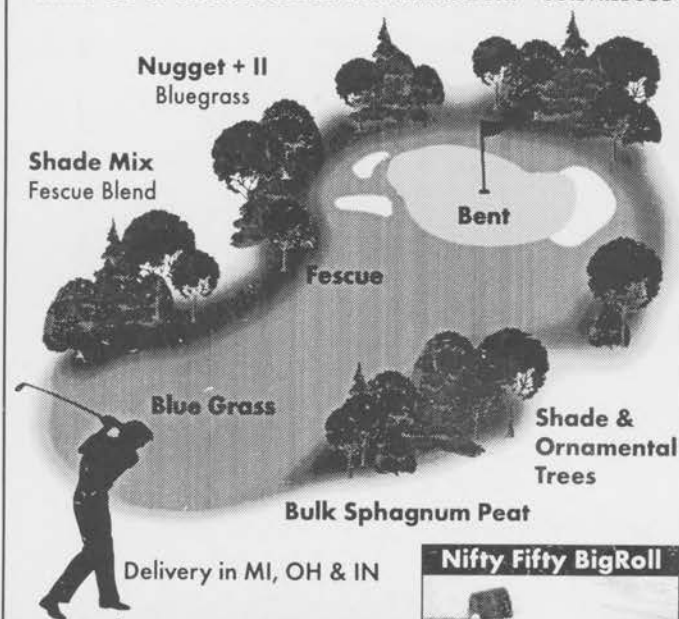
Upcoming Michigan Turfgrass Foundation Event

The 69th Annual Michigan Turfgrass Conference will be held January 18-21, 1999, at the Holiday Inn South-Hotel and Convention Center in Lansing, Michigan. Details regarding this event will be mailed in October. For further information contact Kay at 517-321-1660, or visit our Web Site at michiganturf.org. The highlight of this conference will be honoring the retirement of Dr. Paul Rieke. Many of Dr. Rieke's friends and past MSU alumni will be on hand to congratulate him. Some of the out-of-state speakers include Martin Petrovic, Cornell University; Jeff Krans, Mississippi State University; Bruce Branham, University of Illinois; Frank Rossi, Cornell University; Steve Keely, Kansas State University; Robert Carrow, University of Georgia; Eric Miltner, Washington State University; Robert Shermann, University of Nebraska; Al Turgeon, Pennsylvania State University; Karl Danneburger, Ohio State University; Rich Gassion, University of Nebraska-Lincoln; Victor Gibeault, University of California-Riverside; John Stier, University of Wisconsin; Robert Golembiewski, Montana State University; Don White, University of Minnesota; James Murphy, Rutgers University; James Beard, International Sports Turf, plus all MSU professors.

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The Superintendent as Grow-In Manager

Tuesday, November 10, 1998
8:00 a.m. – 5:00 p.m.
Novi, Michigan
The Novi Doubletree

Application on next page

This one-day seminar covers specific management practices for the renovation, grow-in and care of maturing golf courses. Construction finalization, such as punch lists and as-builts are covered. Participants follow a management scheme that includes pre-planting, grow-in, opening and the maturation of the course. First-year maintenance is quite different from routine maintenance, so these special considerations will be covered in detail, including discussion of budgetary guidelines.

Any superintendent about to manage the renovation and/or grow-in of a golf course will benefit from the field tips and management strategies presented. Detailed areas include selection of USGA-recommended materials, erosion/sediment management, tree protection during construction, drainage flow monitoring and the evaluation of airflow before planting.

Instructor:

Charles B. "Bud" White owns an agronomic consulting firm called Total Turf Services Inc.

Continuing Education Units: 0.7

Member Fee: \$110; Nonmember Fee: \$165

Code: 99RS038-02



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**For more information
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Regional Seminar Registration Form

Use this form to register for any seminar in the catalog. Please photocopy for additional or future registrations.



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Mail:

GCSAA

P.O. Box 419004
Kansas City, MO
64141-6004

1 Who Will Be Attending:

GCSAA Member?

☐ No

☐ Yes

Member #

Name:

First / Middle / Last

Business Name:

Address:

City, State, ZIP:

☐ Business

☐ Home

Country:

Daytime Phone:

() -

Fax Number:

() -

Email:

If you are a non-GCSAA member attending this seminar with a GCSAA member from your facility, please provide the GCSAA member's name and number to qualify for the member rate.

Name:

First / Middle / Last

Member #:

Daytime Phone:

() -

2 Seminar Registration:

Seminar Code:

99RS -

Seminar Date:

- -

Seminar Name:

The Superintendent as Grow-In Manager

NOTE: Appropriate dress is casual business attire (slacks and collared shirts for men, similar attire for women); jackets are recommended.

Registrations must be received at least seven working days prior to the seminar to guarantee that the registrant is listed on the roster, receives a confirmation letter, preprinted badge, seminar manual and lunch.

Cancellations received 24 hours prior to the seminar date will be charged an administrative fee of \$25.00. Refunds will not be issued for nonattendance. Substitutions from the same facility are permitted.

In most cases, if a seminar is cancelled, you will be contacted approximately one week in advance of the scheduled seminar date.

3 Method of Payment: (U.S. Funds Only) Please enclose completed form and payment.

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GCSAA 70th International Golf Course Conference and Show Schedule

Monday, February 8

- 6:30 a.m.-6 p.m. Conference and Seminar Registration Open
- 8 a.m.-5 p.m. Conference Seminars
- 8 a.m.-5 p.m. Focus on the Military Seminar
- 5-6:30 p.m. Military Networking Reception

Tuesday, February 9

- 6:30 a.m.-6 p.m. Conference and Seminar Registration Open
- 8 a.m.-5 p.m. Conference Seminars

Wednesday, February 10

- 6:30 a.m.-6 p.m. Conference and Seminar Registration Open
- 8 a.m.-5 p.m. Conference Seminars
- 8 a.m.-5 p.m. Turfgrass Field Seminar
- 6-7:30 p.m. Opening Session
- 7:30-8:30 p.m. Opening Session Reception

Thursday, February 11

- 6:30 a.m.-3 p.m. Golf Course Decision Makers Golf Outing
- 6:30 a.m.-6 p.m. Conference and Seminar Registration Open
- 6:30-7:30 a.m. Chapter Delegates Breakfast
- 7 a.m.-Noon President's Dinner Show Voucher Exchange Booth Open for Early Bird Voucher Holders
- 8-9 a.m. Research Breakfast
- 8 a.m.-2:30 p.m. Certification Examination
- 8 a.m.-5 p.m. Conference Seminars
- 8 a.m.-5 p.m. Media Room Opens
- 9 a.m.-Noon Science for the Golf Course Session
- Noon-6 p.m. President's Dinner Show Voucher Exchange Booth Open to All Voucher Holders
- 1-5:00 p.m. Career Development Session (Breakouts: Media/Public Relations and Your Career Development; Top 10 Success Strategies for Superintendents Age 50-plus Years; Winning Strategies to Top Compensation)

Friday, February 12

- 6-7 a.m. Innovative Superintendent Breakfast
- 6:30 a.m.-6 p.m. Conference and Seminar Registration Open
- 7-8:30 a.m. Innovative Superintendent Session
- 7 a.m.-6 p.m. President's Dinner Show Voucher Exchange Booth Open
- 8-11 a.m. Distributor Preview
- 8:45-10:45 a.m. Golf, Government & Environmental General Session
- 11 a.m.-6 p.m. Trade Show
- Noon-12:30 p.m. Certification Luncheon (by invitation)
- 12:30-1:30 p.m. Certification Business Meeting
- 2-5 p.m. International Society of Arboriculture Session
- 2-5 p.m. National Golf Course Owners Assoc. Session
- 2-5 p.m. Greens & Grassroots Program
- 2-5 p.m. Super Users Forum
- 3:30-6 p.m. Educational Session: Bentgrass Management: Made in the Shade
- 3:30-6 p.m. Educational Session: "Stuff" That Could Make a Difference
- 5-6 p.m. GCSAA Networking Reception

Saturday, February 13

- 6-7 a.m. Innovative Superintendent Breakfast and Roundtable Discussions
- 6:30 a.m.-6 p.m. Conference and Seminar Registration Open
- 7-8:30 a.m. Innovative Superintendent Session
- 8-10 a.m. American Society of Golf Course Architects Session
- 8-10 a.m. Fifth Annual Collegiate Turf Bowl Competition
- 8 a.m.-Noon Annual Meeting and Election of Officers
- 8 a.m.-5 p.m. Conference Seminars
- 8 a.m.-2:30 p.m. Certification Re-Examination
- 9 a.m.-5 p.m. Trade Show
- 10 a.m.-Noon American Zoysiagrass Association Zoysia Forum
- 10 a.m.-Noon Club Managers Association of America Session
- 10 a.m.-Noon Irrigation Association Session
- 10 a.m.-Noon National Golf Foundation Session
- 10 a.m.-Noon Student Forum: Student-to-Student
- 11 a.m.-1 p.m. Chapter Managers Workshop
- 11:30 a.m.-1 p.m. Friends of the Foundation Meeting/Reception
- Noon-1:30 p.m. Student Chapter Lunch (by invitation)
- 1-5 p.m. Conference Seminars
- 2-4 p.m. Student Seminar: From Student to Superintendent
- 2-4 p.m. Chapter Newsletter Editors Forum
- 2-4:45 p.m. Educational Session: The Cutting Edge of Golf Course Management
- 4-5 p.m. Student Mixer
- 6-8:30 p.m. GCSAA's Recognition Ceremony and Reception
- 9-11 p.m. President's Dinner Show

Sunday, February 14

- 6:30-7:30 a.m. Prayer Breakfast
- 8:30 -11:30 a.m. United States Golf Association Green Section Educational Program
- 8 a.m.-1 p.m. Conference Registration Open
- 9 a.m.-Noon International Summit
- 9 a.m.-Noon Turf Equipment Technicians Association Session
- 9 a.m.-1 p.m. Trade Show
- 12:30 p.m. 18-Hole Challenge Prize Drawing



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GDGCS 1998 Calendar

Oct. 29	Novi Hilton	Management Meeting
Nov. 10		GCSAA Regional Seminar
Dec. 5	Grosse Ile G&CC	Christmas Party
Dec. 8	Birmingham CC	Superintendent Only Meeting

Mid-Michigan GCSA 1998 Calendar

Oct.	Site & Date TBA	Annual Meeting
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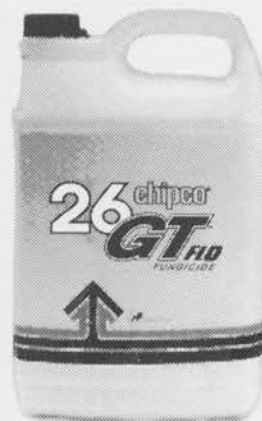
Western Michigan GCSA 1998 Calendar

Oct.	Site & Date TBA	Annual Meeting
Nov.	Kent CC	Fall Party

Northern Michigan Turf Managers Association 1998 Meeting Schedule

Oct.	The Heathlands	Onekama
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