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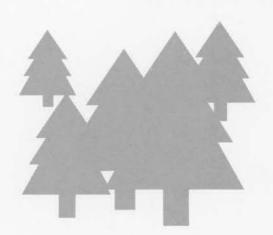
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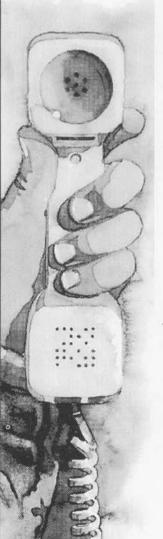
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on par with president

As I prepare to become what Ken DeBusscher termed a "has been", or the past president of the GDGCSA, I cannot believe that it was nearly four years ago that Ken nicknamed himself "has been", or just "h.b." for short. At the time, when Ken was in this position, I got a kick out of his humor, but still thought to myself that it would be a good thing to be a "has been". Good in the sense that for the most part, your volunteer duty has come to an end, you put in your time, did your best to lead and make difficult decisions. You could feel good knowing that you did your part to help the association succeed and it was now time to let the next guy take over.

But now, being in this position for myself, I believe I may feel what I then imagined Ken may have been feeling; a sense of not wanting to let go of the involvement. To this day, I still don't know if that is indeed what Ken was feeling, but I always had a hunch that it was. That hunch is now being bolstered by the fact that this is what I am now feeling, as hard as that is for me to believe. I can't tell you the number of times in the last two years that I thought to myself "why"? Why did you get yourself into this position? Who are you to be making these decisions? Who are you to write and preach to people to get involved? Why do I have to explain myself and my actions to others who disagree. Why do I have to write another letter and let them know that they're heard and respected? Why? Because you volunteered for it, that's why Paul. I would tell myself: "you got yourself into this mess, now deal with it and quit your belly aching." And, more times than not, that is what I would do...deal with it. Deal with it and in turn learn with it.

That is what I am getting at here. When you volunteer and become involved you learn. You learn to organize your schedule, you learn to deal more effectively with difficult people, you learn to speak in public without too much fear. You learn from your mistakes, you learn from your successes, you learn to deliberate, you learn to negotiate, you learn to be more open to others' feelings and ideas. YOU LEARN A LOT. Good and bad, glad and sad, when you volunteer your time and become involved, you learn.

I wouldn't trade my six years on the Board of this association for all the green at Augusta. It is without a doubt the best thing that could ever have happened to me in my career as a superintendent. Unless you've done it for yourself, you'll never understand what I am talking about, but those of you who have been involved, surely do. For each of you who has yet to become involved, please remember these words when you possibly think about volunteering your time to the association. I promise you that you will never regret doing so. Now don't get me wrong. It isn't all a gimme putt. No. No. No. It is a lot of work, it is sometimes a hassle, it is difficult. Enough said. It is rewarding. Rewarding beyond belief. So when you feel you have the time to put forth the effort, try it for yourself and you'll see.

Thanks to all the terrific individuals on the Board during my term; you are each a pleasure to work with and I wish you all the best in the future. Keep up the good work. Thanks to each of you, the members of this fine association, for giving me the opportunity to lead and to learn. I only hope that I didn't let you down. Last, but not least, thank you Kate Mason. Thank you for your unbelievable organizational skills. Thank you for keeping us all sane. Thank you for your patience and understanding. Thank you for all of your hard work, you are a godsend.

Finally, best of luck to Paul Kolbe, our new President. I am certain you will do a fine job at the helm. Once again, thanks to all!

Paul M. Dushane



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We wish to express with regret our condolences to the following, long-time members:

Jack Lorenz, Class AA, who lost his wife, Pearl, on October 22, 1997

Tom Bradshaw, Weingartz Golf & Turf Equipment, upon the loss of his daughter, Carol, killed in an auto accident in November of this year.







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Michigan Hospitality Room

This year the Michigan Hospitality Room will be the place to meet. With the help of our vendors, the room is going to be bigger and better than ever before. Our goal is to raise the necessary funds before the show in Anaheim. This room will be a showcase for Michigan superintendents and vendors.

The room will be open February 4, 5, and 6 at the Anaheim Marriott, which is the exhibitors' headquarters. We are expecting approximately 300 guests per night. The room will be much larger for comfort, at a size of 2,500 square feet. We will be recognizing a superintendent from each of the Associations each night.

Food, cocktails and friendship a plenty. Join us in Anaheim. Please contribute to the room. Send your donation to:

GDGCSA Michigan Room P.O. Box 173 Troy, MI 48099 c/o Kate Mason



Committee selects GCSAA Scholars

Twenty-one undergraduate college students have been recognized for high performance and achievement by The Golf Course Superintendents Association of America (GCSAA) Foundation with their selection as GCSAA Scholars and merit winners.

Eleven scholars were selected by the GCSAA Scholarship Committee from applications submitted by nearly 100 turfgrass students from around the world. Each scholar receives an award ranging from \$2,000 to \$3,500 and an all-expense-paid trip to GCSAA's 69th International Golf Course Conference and Show, Feb. 2-8 in Anaheim, California, where they will be honored at the Friends of The Foundation reception.

The top-rated applicant is afforded the Mendenhall Award, named in honor of the late Chet Mendenhall, a charter member of GCSAA and Kansas Golf Hall of Fame inductee. The Mendenhall designee is Charles Richard Ford of the University of Nebraska at Lincoln.

The top-rated international student attending a U.S. collegiate program is recognized with the Ambassador Award. The award recipient is **Jose F. Makk of Michigan State University.** Other GCSAA Scholars include:

- Scott R. Moffenbeier, Oregon State University
- · Eric Sowatsky, Michigan State University
- · Dennis Lane Cook Jr., Michigan State University
- · Ann Michele Paulisich, Pennsylvania State University
- · Joseph Edward Schmidt, Colorado State University
- · Arthur J. Petrone, Pennsylvania State University
- · David Williamson, Lake City (Fla.) Community College
- · Micah Woods, Oregon State University
- · Jason Martin Gerlach, Purdue University

In addition to the GCSAA Scholars, 10 students were recognized as merit winners and received \$500 awards:

- · Brian D. Boll, North Dakota State University
- · Jonathan W. Burke, University of Massachusetts
- · Daniel Robert Noel Ciekiewicz, Fairview College, Canada
- · Patrick Sloan Fallow, University of Rhode Island
- · Joshua William Gehman, Delaware Valley College
- · Andreas Herrmann, Rutgers University New Jersey
- · Robertson Alexander Lewis, Michigan State University
- · David Harold Robinson, Lake City (Fla.) Community College
- · Justin Ryan Toal, Texas A&M University
- · J. Andrew Zimmerman, University of Illinois

Each year, The GCSAA Foundation awards scholarships to outstanding students planning careers as golf course superintendents. The scholarship committee evaluates candidates on academic excellence, professional preparation and leadership potential.

The 1997-98 Scholarship Committee consists of: GCSAA Director Michael Wallace, CGCS, chairman; Joel F. Barber,



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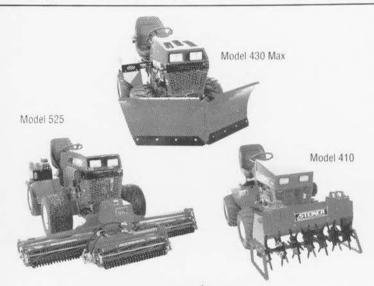
The GCSAA Foundation is committed to advancing environmental and scientific developments in golf course management, providing educational opportunities for superintendents and turfgrass students and preserving the history of the profession. Since its inception in 1955, The GCSAA Foundation has provided more than \$1 million in support of numerous research studies and more than 1,000 student scholarships.

The positive impact The Foundation has on the golf course management industry is a direct result of the generous support of many donors. Contributions to The Foundation are tax deductible to the extent allowed by law. For additional information, please contact The GCSAA Foundation at 800/472-7878, ext. 445.



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The Big Event

Birmingham C.C., Plum Hollow C.C., Orchard Lake C.C., Bay Pointe C.C. and Edgewood C.C. were the sites for the Annual GDGCSA Golf Day Fundraiser known as The Big Event. October 6th marked the 32nd year for this association-sponsored event. The weather was near perfect for the first week of October. Three hundred ninety seven participants helped raise \$ 27,500 for turfgrass research and scholarships.

All the participants raved about the playing conditions of the host courses. Kudos to Rick Murphy of Bay Pointe, Tom Mason of Birmingham, Jim Timmerman of Orchard Lake, Joe Singles of Plum Hollow, Tom Ashfield of Edgewood 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 150 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. Ten \$500 winners were selected in the raffle and five \$300 winners were selected in the 50/50 raffle. Once again, Kathy Hilbert dedicated her time and efforts selling tickets for the 50/50 raffle.

A special thanks goes out to the donators of the door prizes and the Board of Directors of Birmingham, Plum Hollow, Orchard Lake, Edgewood and the ovvners 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.



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Fall Management Meeting a Success

by Mike Jones

On October 27, 1997 the Greater Detroit Golf Course Superintendents Association held their first Fall Management Meeting. We had well over 70 attendees for the information filled day.

Lee Mangum, Audubon Cooperative Sanctuary System

Program Manager from Selkrirk, New York went into detail on how to move through the Audubon certification process for our courses. Then the superintendents of TPC Michigan, Mike Giuffree; Egypt Valley, Jeff Holmes; Fox Hills Golf Course, Eric Niemur; and White Pines National, Bruce Wolfrom; spoke on their experiences of becoming a certified sanctuary.

Dr. Trey Rogers and John Hardy, of Michigan State University, updated the group on their findings of plant growth regulators and rolling effects on putting greens.

After lunch, weather meteorologist John McMurray of WJR Radio spoke on weather and what we could possibly expect this winter. He also fielded many questions from the group.

The final topic was a panel of superintendents who spoke on their experiences with the new bentgrass cultivars. Rick Elyea of Turf Seed Inc. spoke on the specific traits and availability of the varieties. Kurt Thuemmel, Walnut Hills Country Club, and Mark Jackson, Country Club of Detroit, spoke on their experiences with the new varieties and their management of these grasses.

It was an excellent educational day for all who attended. A special "thank you" to Mike Edgerton and Tom Schall for organizing and running the day. Their hard work is appreciated by the Association. Any suggestions for next year's education committee would be greatly appreciated. Please contact either Mike Jones or Rick Murphy.



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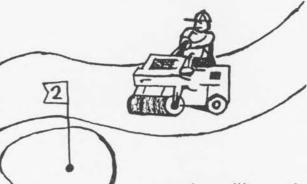
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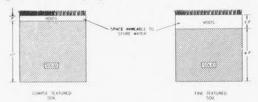
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The Soil Moisture Reservoir

By: David B. Beck, P.E.

There are many factors which govern irrigation management on a golf course. Understanding as many irrigation variables as possible is key in improving water management and efficiency for turfgrass irrigation. At the very foundation of irrigation management is the soil moisture reservoir. The soil moisture reservoir can be simply defined as the area within the soil profile which is available to store water. Although there are many terms and variables defining the soil moisture reservoir, it can be simplified with a very few terms and variables when relating to irrigation management. The reservoir can be related to a potted house plant. When the reservoir is full, after a rain or an irrigation, the soil moisture reservoir (or potted plant) is at field capacity. Any additional water added to the reservoir will either spill over the edge of the pot or force water to flush out the bottom. Permanent wilting point, for the purpose of this publication, will be a term used to define the soil moisture reservoir when there is effectively no water available in the soil for the plant.

Figure #1
Shematic Diagram of the physical elements in a cubic foot of soil



Reference #3. Fundementals of Geotechnical Analysis

The difference between the permanent wilting point and field capacity is the soil moisture reservoir. This volume of water is highly variable based on the type of soil, type of plant, and the depth of the plant's root zone. The size of the soil moisture reservoir is typically defined in inches per foot. Using our potted plant as an esample, assume we have a potted plant in a 12"x12"x12" square pot (see Figure #1). If we take a very large press and compress all tile water and air out of the soil it would make a solid block of soil particles or a rock. The void space pressed out of the soil profile would represent the area available to store water. If the soil is a sand, the solid block would be approsimately 12"x12"x11" or only 1 inch of void space is available for water storage in each foot of soil.^{2,3} If the pot contained clay, the block would compress to 12"x12"x9.7" or 2.3 inches of water is available in each fool of soil. The difference in soil moisture capacities between the coarse textured soils (sands) and fine textured soil (clays) is substantial. This difference can be attributed to the soil particle size distribution and the characteristics of soil structure between the individual soil particles. Most soils fall somewhere between 1 inch and 2.3 inches of water available to the plant for each foot of soil. Table #1 contains water reservoir capacities for different soil types. Experienced superintendents may be able to relate this to observations on your own golf course by remembering that turf grown on sandy soils usually needs water sooner than turf on silty or clay soils.

Table #1
Soil moisture reservoirs for various soil types

Soil Type	Available Water (in/ft)
Coarse (sand)	1.0
Moderate Coarse (sandy loams)	1.5
Medium (loams, silt loams)	2.0
Mod. Fine (clay loams)	2.2
Fine (clays)	2.3

Reference #2 Rochester, E.W. Landscape & Irrigation Design.

The available water represented in Table #1 is for a one foot soil profile. Keep in mind that root zones for highly manicured turfgrasses are notoriously shallow. The shallow root zone typical for recreational turfgrass dramatically restricts the soil moisture reservoirs. In our previous example, we used a 12"x12"x12" block of soil to establish our soil moisture reservoir size. However, in most cases, turfgrass roots do not effectively draw water from the soil to a depth of 12 inches. With many turf cullivars, as heal stress increases root zone depth decreases so that effective root zones can be as small as 4 inches in depth during the peak irrigation season. Again, if a square pot is used to represent a turfgrass root zone, the turfgrass pot is 12"x12"x4" deep (See Figure #2). When the water and air is pressed out of this shallow soil block, a sandy soil has only about 0.3 inches available to hold water and only about 0.7 inch of water is available for the clay soil. Few soils are pure sand or pure clay and the actual soil moisture reservoir typically falls between these values (See Table #2).

Figure #2
Schematic diagram of the physical elements in a 4 inch root zone

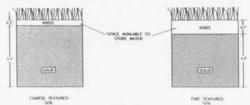


Table #2
Soil moisture reservoirs for various soil types using a 4 inch root zone

Soil Type	Available Water (in)
Coarse (sand)	0.33
Moderate Coarse (sandy loams)	0.5
Medium (loams, silt loams)	0.66
Mod. Fine (clay loams)	0.7
Fine (clays)	0.75

Table #2 dramatically illustrates the soil moisture restrictions which are placed on recreational turfgrasses. With peak turf water uses in Southeast Michigan approaching 0.25 inches per day⁵, sand greens will easily deplete the majority of soil moisture within one day and require nightly irrigation. Since turf will show water stress before reaching its permanent wilting point, many sand greens require midday sprinkling during the peak irrigation season to hold off excessive drought stress. By understanding soil moisture restrictions superintendents can identify areas which show early drought stress and manage irrigation accordingly. Although there can be several other causes of early drought stress on a golf course, shallow root zones and small water holding capacities may likely be the culprit. The key to managing the small soil moisture reservoir is frequent light irrigation By frequently replacing the depleted soil moisture reservoir, the soil moisture level can be maintained at a level optimum for the turf to thrive. Remember that once the small soil moisture reservoir is full, additional irrigation will not increase the amount of water available to the turfgrass. Additional irrigation will simply flush water through the root zone carrying valuable nutrients the extra water beyond the reach of the turf's root system. By understanding the limitations of the soil moisture reservoir, superintendents can take steps to avoid excessive and wasteful irrigation practices.



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- 1) James, L.G. 1988, Chapter 1 -Irrigation Requirements and Scheduling, Principals of Farm Irrigation System Design. John Wiley and Sons, Inc.
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- 3) Dunn, I.S.; Anderson, L.R.; Kiefer F.W. 188O, Chapter I-Soil Properties. Fundamentals of Geotechnical Analysis, John Wiley and Sons.
- 4) Vavrek, R. 1996, The 1995 Year in Review, Proceedings of the 66th Annual Michigan Turfgrass Conference. Vol. 25, p. 191-192.
- 5) Toro Rainfall-Evapotranspiration Data, Potential ET from Blaney-Criddle formula. Toro product literature, 1966. The Toro Company.

RESOURCE ISSUE

Dear Superintendent Members,

We trust you will find the following pages of this issue to be of great help to you in the next year. Listed Alphabetically and by Product/Service category are vendor members of the Greater Detroit GCSA (GD), Mid-Michigan Turf Assn (MM), Northern Michigan Turf Managers Assn (NM) and the Western Michigan GCSA (WM) regional areas, who have chosen to be a part of the Resource Issue. *Please support these vendor members*.

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 (248) 588-2990

 NM Regional Rep:
 Brian Birdwell
 (248) 588-2990

 WM Regional Rep:
 Roger Griffith
 (616) 954-0660

COMMERCIAL/ENVIRONMENTAL TURF SERVICES

149 N. Perry, Pontiac, MI 48342

(248) 858-7700 Fax (248) 338-0429

Statewide Rep: John Kirtland

COMMERCIAL LAWNMOWER

34955 Plymouth Rd., Livonia, MI 48150 (313) 525-0980 Fax (313) 525-3010

Statewide Rep: John Murphy

CONSTRUCTION SUPPLY, INC.

Box 668, 1500 Alloy Parkway, Highland, MI 48357

(800) 621-7007 Fax (248) 887-6767

Statewide Rep: Don Ellis

 GD Regional Rep:
 Todd Walters
 (248) 887-6767

 MM Regional Rep:
 Jeff Skinner
 (248) 887-6767

 NM Regional Rep:
 Don Berry
 (616) 534-3137

 WM Regional Rep:
 Don Berry
 (616) 534-3137

CYGNET ENTERPRISES, INC.

1860 Bagwell Street, Flint, MI 48503-4406

(800) 359-7531 Fax (810) 744-0233

Statewide Rep: Chuck Swan

-D-

D&C DISTRIBUTORS, INC.

51000 Grand River, Wixom, MI 48393 (800) 888-7779 Fax (810) 349-4670

DG IRRIGATION CO.

711 W. Pickard, Mt. Pleasant, MI 48858

(800) 334-7011 Fax (517) 773-1880

Statewide Rep: Carl S. Graef

MM Regional Rep: Mark Graef (800) 334-7011

DAVEY TREE EXPERT COMPANY (THE)

3846 Rochester Rd., Troy, MI 48083 (248) 689-2200 Fax (248) 528-5194

GD Regional Rep: Dan Prospal (248) 689-2200

DESIGN 3

919 E. Grand River, Suite 2, East Lansing, MI 48823 (517) 336-5959 Fax (517) 333-3600

Statewide Rep:

W. Bruce Matthews

-E-

EDW. C. LEVY CO.

8800 Dix Ave., Detroit, MI 48209

(313) 843-7200, ext. 338

Fax (313) 849-9448

Statewide Rep:

John Perry, Product Mgr.

EMERALD ISLE, LTD.

2153 Newport Rd., Ann Arbor, MI 48103 (800) 628-4769 Fax (313) 747-6617 Statewide Rep: Bill Middleton, Doug Middleton,

Veronica Sanitate

-F-

FENDT BUILDERS' SUPPLY, INC.

22005 Gill Rd., Farmington Hls., MI 48335 (248) 474-3211 Fax (248) 474-8110

Statewide Rep:

Kurt Weber

(313) 663-4277

-G-

GREAT GREENS OF AMERICA

682 S. Renaud, Grosse Pte. Woods, MI 48236 (800) 942-5650

Statewide Rep:

Don Myers

GD Regional Rep: Bob Waldeck

(800) 942-5650

GREEN & GROW, INC.

P.O. Box 426, Sterling Hgts., MI 48311-0426 GD/MM Reg. Rep: Mike Plague (810) 323-9870 E-Mail: greenNgrow@aol.com Fax (810) 323-9875 GD/MM Reg. Rep: Marty Miller (248) 851-5464 E-Mail: ccgreens@aol.com Pager (248) 414-0658

NM Regional Rep: Larry Waugh WM Regional Rep: Jim Johnson

(800) 802-8836 (616) 458-1546

Fax (616) 458-0212 Pager (616) 270-3484

GREEN GROWTH SUPPLY COMPANY, INC.

1225 76th St, SW, Byron Center, MI 49315 (616) 878-9922 Fax (616) 878-9882

Statewide Rep:

Paul Witte

(800) 315-5777

-H-

HUGGETT SOD FARM, INC.

4114 E. Marlette Rd., Marlette, MI 48453 (517) 635-7482 Fax (517) 635-7484

Statewide Rep:

Mark Huggett

-|-

INDUSTRIAL VEHICLE SALES

361 S. Saginaw, Pontiac, MI 48341 (248) 338-1590 Fax (248) 338-4604

Statewide Rep:

Bill Jordan

GD Regional Rep:

Don Dupuis

(248) 338-1590

-J-

J. MOLLEMA & SON INC.

4660 E. Paris Ave. SE, Grand Rapids, MI 49512

(616) 940-1441 Fax (616) 940-0401

(800) 224-5329

GD Regional Rep: Tim Barno (616) 940-3132, ext. 119

MM Regional Rep: Daniel Wilson (800) 234-GROW NM Regional Rep: Jim Meszaros (800) 234-GROW

WM Regional Rep: Steve Adamczyk (800) 234-GROW

-L-

L.A. LINKS, INC.

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Statewide Rep:

Lorrie Viola

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(248) 673-7146

Statewide Rep: Randall Rogers, Agronomist

-M-

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456 Pine, Galesburg, IL 61401

(800) 743-2419

Statewide Rep: David Strang

-N-

NJK ASSOCIATES, INC.

5476 Dixie Hwy., Waterford, MI 48329 (248) 623-2783 Fax (248) 623-7688 Statewide Rep: Richard Kirkland

-0-

OSBURN INDUSTRIES

5850 Pardee, Taylor, MI 48180

(313) 292-4140 Fax (313) 292-4143

Statewide Rep: Tim Osburn GD Regional Rep: Larry Kroll

-P-

PEERLESS-MIDWEST INC.

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(616) 527-0050 Fax (616) 527-0050

Statewide Rep: Gerry Burrows

-R-

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Statewide Rep:

Bob Dugan

-S-

S&F CONSTRUCTION

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(810) 752-2401

Statewide Rep:

Fred Diener

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SCOTTS COMPANY (THE)

9120 Sandison Drive, White Lake, MI 48386

(248) 698-2358 (248) 698-0950

Statewide Rep: John Skaife

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Statewide Reps: Jack Rogers/Irrigation & John Read/Turf

-T-

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3847 Long Meadow Lane, Lake Orion, MI 48359

(248) 393-2571 Fax (248) 393-2572

GD Regional Rep: Sue Shockey (248) 393-2571
MM Regional Rep: Mark Frever (517) 769-6496
NM Regional Rep: Sue Shockey (248) 393-2571
WM Regional Rep: Mark Frever (517) 769-6496

THESIER EQUIPMENT COMPANY

28342 Pontiac Trail, South Lyon, MI 48178

(248) 437-2091 Fax (248) 437-2140

(800) 870-9791

Statewide Rep: Jim Thesier

GD Regional Rep: Doug Dekker (313) 300-5266

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1783 E. 14 Mile Rd., Troy, MI 48083

(248) 589-9910 Fax (248) 589-9919 Statewide Rep: John Meyers (248) 858-9910

GD Regional Rep: John Meyers (248) 858-9910

MM Regional Rep: Dan Cress (616) 775-6666

NM Regional Rep: Dan Cress (616) 775-6666

WM Regional Rep: Russ Frye (248) 858-9910

TRI-TURF

3751 Blair Town Hall Rd., Traverse City, MI 49684

(616) 943-8343 Fax: (616) 943-9092

Statewide Rep: Tom Reed Sr.

GD Regional Rep: Tom Reed Sr. (616) 943-8343

MM Regional Rep: Tom Reed Sr. (616) 943-8343

NM Regional Rep: Eric Denoyer (616) 943-8343

WM Regional Rep: Tom Reed Sr. (616) 943-8343

TRI-TURF SOILS, INC.

3751 Blair Town Hall Rd., Traverse City, MI 49684

(616) 943-7806 Fax (616) 943-9092

GD Regional Rep: Jim Surge (616) 755-7361

MM Regional Rep: Jim Surge (616) 755-7361

NM Regional Rep: Tom Reed Sr (616) 943-7806

WM Regional Rep: Jim Surge (616) 755-7361

TURF CHEMICALS, INC.

P.O. Box 451, Owosso, MI 48867 (517) 725-7145 Fax (517) 723-7410

Statewide Rep: Russ Hancock

GD Regional Rep: Ted Kasel (517) 372-4097

MM Regional Rep: Jay Siddock (517) 723-6861

NM Regional Rep: Fred Miller (517) 732-2136

WM Regional Rep: Mike Horvath (616) 321-9408

TURF DRAIN INC.

39555 Orchard Hill Place, Suite 600, Novi, MI 48375

(248) 471-6750 Fax (800) 330-5981

Statewide Rep: Geoff Corlett

TURF SERVICES, INC.

17205 148th St., Spring Lake, MI 49456 (616) 842-4975 Fax (616) 842-0302

Statewide Rep: Matt Heiss

TURFGRASS, INC.

Box 667, 28064 Pontiac Trail, South Lyon, MI 48178

(248) 437-1427 Fax (248) 437-5610

(800) 521-8873

Statewide Rep: Todd Griebe

-U-

UNITED HORTICULTURAL SUPPLY

68790 Oak St., Richmond, MI 48062 (810) 727-2791 Fax (810) 727-4930

GD Regional Rep: Dave Polen (800) 412-0091
GD Regional Rep: Jim Hyde (810) 830-3679
MM Regional Rep: Steve Fent (517) 274-8188
NM Regional Rep: Doug Suttor (616) 887-7877

-V-

VALLEY TURF, INC.

3721 28th St. SW, Grandville, MI 49418 (616) 532-2885 Fax (616) 532-5553

Statewide Rep: Ronald Brink

GD Regional Rep: Randy Lane (810) 220-2040
MM Regional Rep: Bob Most (616) 532-2885
NM Regional Rep: Bob Doezema (616) 369-3486
WM Regional Rep: Brian VanderBaan (616) 532-2885

W. F. MILLER COMPANY

25125 Trans-X, P.O. Box 605, Novi, MI 48376-0605

(248) 349-4100 Fax (248) 349-0406

Statewide Rep:

Mark Vogler

GD Regional Rep: Don Fields

(248) 349-4100

MM Regional Rep: Kyle Riddle

(248) 349-4100

NM Regional Rep: Hal Clark (800) 555-8189

WM Regional Rep: Dave Taylor

(800) 555-8189

WATER MANAGEMENT SPECIALIST

1596 S. College Rd., Mason, MI 48854 (517) 628-8001 Fax (517) 628-2173

Statewide Rep:

Dennis Rector

WATERTRONICS INC.

525 Industrial Drive, P.O. Box 530, Hartland, WI 53029

(414) 367-5000 Fax (414) 367-5551

Statewide Rep:

Mike Wilczynski (517) 486-2328

WEINGARTZ GOLF & TURF EQUIPMENT

39050 Grand River, Farmington Hills, MI 48335

(248) 471-3050 Fax (248) 471-6948

Statewide Rep:

Don Alexander

WEST MICHIGAN POWER & EQUIPMENT, INC.

3651 M-20, New Era, MI 49446

(616) 861-2175 Fax (616) 861-2455

(800) 821-6522

NM Regional Rep: Jim Keller

(800) 821-6522

WM Regional Rep: Jim Keller

(800) 821-6522

-Z-

ZORBIT TECHNOLOGIES, INC.

3605 32nd St., Port Huron, MI 48060 (800) 927-6947 Fax (810) 364-0217

Statewide Rep:

Lou Marini

GD Regional Rep: MM Regional Rep:

Benham Chemical Corp, (800) 482-6520 Benham Chemical Corp. (800) 482-6520

NM Regional Rep:

Tri Turf, Inc. (616) 943-8343

WM Regional Rep:

Benham Chemical Corp. (800) 482-6520







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Terra Industries Inc.
The Davey Tree Expert Co.
The Scott Company
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Turfgrass, Inc.
U.S. Sand & Stone Co.
United Horticultural Supply
Valley Turf Inc.
W.F. Miller Co.
Weingartz Golf & Turf Equipment
Wm. F. Sell & Son
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Willow Metropark

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Aggregate Supplier Asphalt Paving Baseball Field Clay Batteries & Accessories Biological Equipment

Blowers Boulders

Brush Chippers/Shredders

Bunker Sand Compressor Rental Computers & Software Concrete Pavers Construction Soils

Consulting & Management Services

Crane Rental

Deep Aerification Service Drainage Systems & Supplies Driving Range Equipment

Education Endophyte Seed

Engines

Environmental Auditing & Compliance Svcs

Equipment Lifts

Erosion Control Products Fairway Aerification

Fans

Fencing & Netting

Golf Course Accessories

Golf Course Architecture & Design Golf Course Construction Contractors

Gravel

Greensmix Materials Grinders & Sharpeners

Hand Tools Heavy Equipment Hydroseeding

Injection Equipment/Systems
Irrigation & Related Equipment
Irrigation Design & Consulting
Landscaping Accessories & Svcs

Limestone Mobile Svc

Mowers & Accessories

Mulch

Overseeders/Contracted Service

Pesticide/Fertilizer Application Services Pesticides/Fertilizers/Biological Products

Pond Aerators

Pond/Lake Management Products

Power Rakes Pressure Washers Pruner/Trimmers

Publications/Directories/Reference Materials

Pumping Stations & Equipment

Reel Grinding Repairs

Replacement Parts Retaining Walls Safety Products

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Seed/Sod/Sand/Nursery

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Slag

Slit Seeders/Contracted Service

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Soil Conditioner & Amendments

Sphagnum Peat (bulk) Spill Control Absorbants

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Tackifiers

Tires, Wheels & Accessories
Top Dressing Materials

Topsoil

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Turf Aerators

Turf Colorants & Markers

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Verti-Drain Contract Aeration Weather Monitoring Equipment

Well Construction Wetting Agents

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Tri-Turf Soils, Inc.
Turf Services, Inc.

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S&F Construction, Inc.

Baseball Field Clay

Terra International Tri-Turf Turf Services, Inc. Turfgrass, Inc.

Batteries & Accessories

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Biological Equipment

Commercial/Environmental Turf Services

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Boulders

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Thesier Equipment Company
W.F. Miller Company
Weingartz Golf & Turf Equipment
West Michigan Power Equipment, Inc.

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Sand Sales Co.
Tri Turf Soils, Inc.
Turf Services, Inc.

Compressor Rental

AIS Rental Corporation Allingham Corporation

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Concrete Pavers

AIS Rental Corporation Fendt Builders' Supply, Inc.

Construction Soils

Tri Turf Soils, Inc.

Consulting & Management Services

J. Mollema & Son, Inc. Tri Turf Soils, Inc.

Crane Rental

AIS Rental Corporation Allingham Corporation

Deep Aerification Service

Commercial/Environmental Turf Services Great Greens of America, Inc. Turf Services, Inc.

Drainage Systems & Supplies

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Construction Supply, Inc.
D&C Distributors, Inc.
Spartan Distributors
Turf Drain Inc.
Turf Services, Inc.
Valley Turf Inc.
Water Management Specialist

Driving Range Equipment

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Education

Green & Grow, Inc. Terra International

Endophyte Seed

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Lebanon Sea Board Corp.
Scotts Company (The)
Terra International
Tri Turf
Turfgrass Inc.
United Horticultural Supply

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Commercial Lawnmower
D&C Distributors, Inc.
Thesier Equipment Company
Tri Turf
Valley Turf Inc.
W.F. Miller Company
Weingartz Golf & Turf Equipment
West Michigan Power Equipment, Inc.

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Equipment Lifts

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Construction Supply, Inc.
Green Growth Supply Co., Inc.
J. Mollema & Son, Inc.
Tri Turf
Turfgrass Inc.

Fairway Aerification

Thesier Equipment Company

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Golf Course Architecture & Design

Design 3 L.A. Links, Inc.

Golf Course Construction Contractors

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Gravel

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Osburn Industries Inc./Pea
Sand Sales Co./Drainage
Tri Turf Soils, Inc.

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Hydroseeding

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West Michigan Power Equipment, Inc.

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Tri-Turf

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Terra International
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Spartan Distributors
Thesier Equipment Company
W.F. Miller Company
Weingartz Golf & Turf Equipment

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Green & Grow, Inc.
Spartan Distributors
Thesier Equipment Company
Tri Turf
Valley Turf Inc.
W.F. Miller Company
Weingartz Golf & Turf Equipment

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Safety Products

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J. Mollema & Son, Inc.
Tri Turf
Turfgrass Inc.
United Horticultural Supply
Zorbit Technologies Inc.

Sand

Sand Sales Co.

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Green Growth Supply Co., Inc.
Huggett Sod Farm, Inc.
J. Mollema & Son, Inc.
Lebanon Sea Board Corp.
Sand Sales Co.
Scotts Company (The)
Terra International
Tri Turf
Tri Turf Soils, Inc.
Turf Chemicals Inc.
Turfgrass Inc.
United Horticultural Supply

Seeding Mulch

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Construction Supply, Inc.
Green Growth Supply Co., Inc.
J. Mollema & Son, Inc.
Terra International
Tri Turf
Turfgrass Inc.
United Horticultural Supply

Signage & Markers

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Slag

Edw. C. Levy Co. Osburn Industries Inc.

Slit Seeders/Contracted Service

Turf Services, Inc.

Small Engine Parts

Commercial Lawnmower
D&C Distributors, Inc.
Thesier Equipment Company
Tri Turf
W.F. Miller Company
Weingartz Golf & Turf Equipment
West Michigan Power Equipment, Inc.

Soil Conditioner & Amendments

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Green & Grow, Inc.
Green Growth Supply Co., Inc.
J. Mollema & Son, Inc.
Terra International
Tri Turf
Tri Turf Soils, Inc.
Turf Chemicals Inc.
Turfgrass Inc.
United Horticultural Supply

Sphagnum Peat (bulk)

Huggett Sod Farm, Inc.

Spill Control Absorbants

Benham Chemical Corp. Green Growth Supply Co., Inc. Tri Turf United Horticultural Supply Zorbit Technologies Inc.

Sprayers, Seeder & Topdressers

Commercial Turf Equipment/Services
J. Mollema & Son, Inc.
Spartan Distributors
Theiser Equipment Company
Tri-Turf
Valley Turf Inc.
W.F. Miller Company
Weingartz Golf & Turf Equipment
West Michigan Power Equipment, Inc.

Storage Buildings/Shelters

AIS Rental Corporation
United Horticultural Supply

Sweepers & Vacuums

AIS Rental Corporation
Spartan Distributors
Thesier Equipment Company
Valley Turf Inc.
W.F. Miller Company
Weingartz Golf & Turf Equipment
West Michigan Power Equipment, Inc.

Tackifiers

Amturf Seeds
Benham Chemical Corp.
Construction Supply, Inc.
Green Growth Supply Co., Inc.
Terra International
Turfgrass Inc.
United Horticultural Supply

Tires, Wheels & Accessories

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W.F. Miller Company
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Tree Care Equipment and/or Services

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Davey Tree Expert Company (The) - Svcs
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USGA Sand

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Spartan Distributors
Theiser Equipment Company
Valley Turf Inc.
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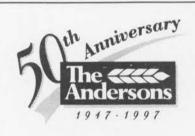


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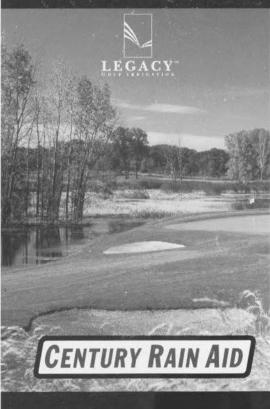
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Board Meeting - Knollwood Country Club

Monday, September 15, 1997

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Finance (Szyndlar)

As of 8/31/97: Assn Checking - \$384.67 Savings - \$19,920.91 Foundation Checking - \$301.95 Savings - \$11,357.52

Membership (Hock)

Membership - 450. Applications approved - 4.

Dues - 2nd Notice to go out Sept. 15 to those who haven't paid.

Education (Murphy/Jones)

October mtg: Edgerton, Schall and Jones in charge

Site: Novi Hilton Date: Oct. 27

Format: All Day Seminar Will be announced at the Annual meeting

and in the fall issue of *POG* Projected Attendance: 100

Hospitality Room (Jones)

Room will be at Anaheim Marriott.

Letters will be sent out to vendors statewide. Ads will be sold to support room.

Awards (Murphy)

Heritage Award - Committee will be chosen by Murphy. Applicants will be anonymous to committee to insure fairness.

Annual Meeting (Dushane)

Date: Sept. 22

Site: The Wyndgate

Plans made for annual written and oral reports. 100 copies will be

distributed.

Election: ES to prepare ballots. Timmerman will be asked to officiate. Approximately 10 absentee ballots received.

Golf Day (McKinley)

Birmingham CC, Orchard Lake CC and Plum Hollow GC are full. Committee members are calling A&B members for support, i.e. golf pkgs, equipment, foursomes.

Michigan Superintendent Championship (Delcamp)

Date: October 17, 1997 Site: The Fortress

McMurray Letter (Dushane)

Pres. received letter from Robert McMurray voicing concerns re item #16 of Code of Ethics. Discussion. Response sent to Mr. McMurray.

Wolfrom Letter (Dushane)

Pres. received letter re change of venue for Clarence Wolfrom Classic Tournament from C.H. Wolfrom, Jr. Discussion. Response sent to Mr. Wolfrom, Peter Roehl and Paul Kolbe explaining reason for change, etc.

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Board Meeting - Knollwood Country Club Monday, November 3, 1997

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- · For use on all cool-season grasses

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Finance (Szyndlar)

As of 9/30/97: Assn Checking - \$1,369.92; Savings - \$12,562.21 Foundation Checking - \$6,516.36; Savings - \$34,263.01

Membership (Hock)

Membership - 456. Applications approved - 5. Applications for Class Change - 11 Dues - 100 members were called re late dues. 52 responded. Remainder will receive a Reinstatement form and will subsequently be removed from the 1998 rolls if dues go unpaid.

Education (Murphy/Jones)

October (Annual Business) Meeting was well attended. November (GCSAA Seminar) Meeting; Date: Nov. 11;

Site: Double Tree Hotel, Novi

December (Superintendents Only) Meeting;

Date: December 9; Site: Birmingham CC

1998 Schedule to be finalized

Hospitality Room (Jones)

Letters mailed out to vendors. Awaiting response.

Awards (Murphy)

Heritage Award - Deadline: Today, Nov. 3 Turfgrass Scholarships - McKinley to make presentation of Scholarship info at MSU soon.

Golf Day (McKinley)

'97 - Raised \$27,500 for donations.

Allocation: GCSAA Platinum Tee (\$5,000); Scholarships (\$2,500 - 4-yr \$1,500, 2-yr \$1,000); MTF Endowment (\$2,000); MTF Research (\$17,000);

O.J. Noer Foundation (\$1,000)

'98 - Confirmed Sites: Barton Hills and Katke Cousins

Clothing (Murphy)

Clothing sales will be dropped from the services offered to members. Members will deal directly with GCSAA.

Editorial (Dorner)

Winter Issue will contain Resource Info, Michigan Room News and Conference Information.

Christmas Party (Kolbe)

Date: Saturday, December 13, 1997

Site: Walnut Creek CC Cost: \$100 per couple

Past Presidents Luncheon (Kolbe)

Held every other year. Pres.-Elect Kolbe will plan. Opportunity for new presidents to get advice/input from former presidents.

New/Old Board Luncheon (Dushane)

Pres. Dushane to plan. Joint meeting/luncheon with out-going and in-coming Boards. Passing of the gavel to new President.



CHIPCO® 1998 Golf Turf Seminar

Dear Golf course superintendent:

You are cordially invited to attend a turf seminar at Holiday Inn, Farmington Hills, Grand River & 10 Mile, on Thursday, January 8th, 1998. This educational program will be sponsored by Rhone-Poulenc, the manufacturer of Chipco[®].

8:00 - 9:00 AM:

Registration, coffee, and donuts.

9:00 - Noon:

Dr. Joe Vargas, Michigan State University will discuss turf management strategies, problems and solutions growing quality turf, and answer any questions you may have. He will also discuss some of his research work regarding Aliette® Signature®, and 26GT®.

Rich Hanrahan Rhone-Poulenc product development will bring to you a clear understanding of Aliette® Signature®, how it works, why there are no resistance problems, and performance results for the past three years.

Noon - 1:00 PM:

Lunch provided compliments of Chipco®.

1:30 PM:

Adjourn.

This is a seminar you don't want to miss. Please RSVP as soon as possible by calling or faxing Bob Dugan at phone (313)782-0323, fax (313)782-6344.

I am looking forward to seeing you at the seminar.

Sincerely,

Bob Dugan

(313)782-0323

Fax: (313)782-6344

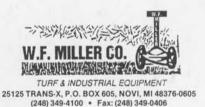
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