

# A PATCH OF GREEN



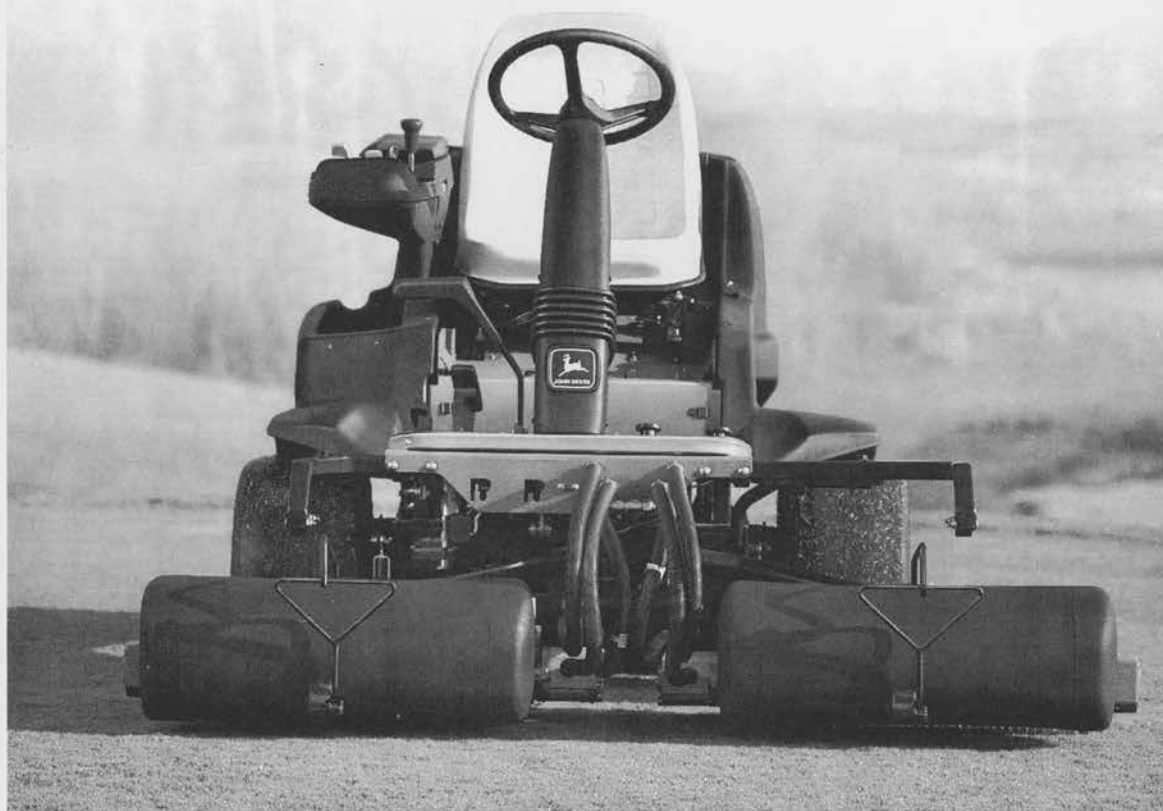
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# on par <sup>with</sup><sub>the</sub> president



Mother Nature has given us an early summer, with above normal temperatures and minimal rainfall. While the season started early, it is never too early to ask the question, "What can I do for our association?"

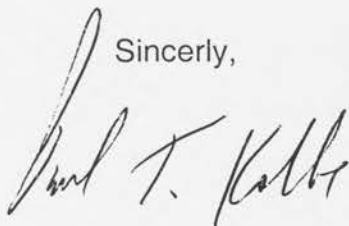
This fall at our annual meeting, the election is an important event and I would like to see many candidates and voting members in attendance. You have to be a class A or B member to run for the board of directors and voting privileges are for class A, B, and AA members.

Involvement on the board takes commitment, responsibility and time management. Along with our monthly board meetings, you are expected to attend the educational and social functions. Your main assignment is to be chairman or co-chairman of a committee. The committees have different time requirements to complete the job. Our executive secretary, Kate Mason, facilitates the chairman in helping him stay organized and being prepared for the event. Kate is a tremendous help to each board member.

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Sincerely,

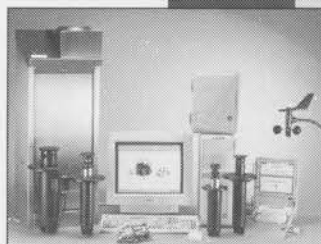


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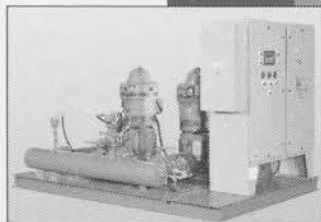


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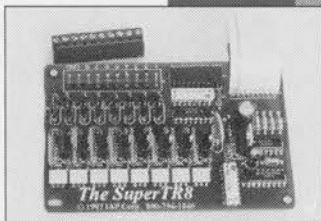
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# In Memory of Leo Bishop

1911-1999

"One of the true masters of the golf world", says Ted Woehrle of his friend Leo Bishop, who passed away on January 3, 1999.

Leo was a long-time member of the Michigan Border Cities GCSA, as well as a member of the GCSAA. During his lengthy and illustrious career, which started shortly after his discharge from the military in 1945, he built a driving range in Toledo, Ohio. He also worked in a greenhouse to supplement his income. This is where he learned about and developed his love for plants and flowers, which served him well throughout his career in golf.

A few years later, he designed and built nine holes at the Tecumseh Country Club in 1947, where he raised his family. He became quite proficient in his golfing skills while at Tecumseh and started playing competitive golf with the likes of Frank Stranahan, another Toledo area golfer. Leo finally turned professional, but continued as superintendent at Tecumseh until 1961, when he went to Red Run Country Club in Royal Oak, Michigan as superintendent.

In the mid 60's he designed and built the executive course at the Somerset Park apartments in Troy, Michigan, as well as all the landscaping for the entire apartment complex. At that time, Somerset was the largest apartment development in the country. It was a feature story in *Life* magazine. Leo remained there, managing the maintenance, until he left to build "Lake in The Woods."

His next project was building the 18 holes at Pine Knob Golf Club and the accompanying landscaping for the music complex.

During much of this time he was the gardener at Oakland Hills Country Club, where his talent was displayed in his cottage type gardens. He always had cut flowers for the clubhouse and was able to manage special bouquets for the ladies' locker room on ladies' day. His gardens were always bright and cheerful.

He served in a similar capacity as advisor and gardener at the "Mission Hills" Golf Club at the old St. John's Seminary.

Leo was self-educated. He enrolled in art classes and gardening classes, where he learned to sharpen his skills in landscape design. He learned all the botanical names of his plants. Leo also loved to cook. He probably could have been a chef. While at Oakland Hills, he always had an herb garden that the chef used daily during the summer.

Leo is survived by his wife Laura and two daughters, Sandy Hitch and Debbie Dunstan. Sandy has the distinction of being the only woman PGA member in Michigan for 13 years. She still gives golf lessons in her studio in Rochester Hills.

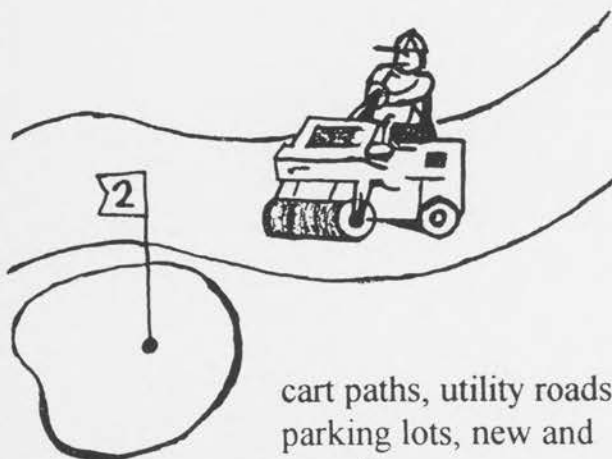
The family and his friends at the Somerset Park apartments are planning a tree planting program sometime in July. A memorial plaque noting his handiwork will be presented at that time.

We have lost a real friend who made the world a better place to live. The Greater Detroit Golf Course Superintendents extend our heartfelt condolences to Leo's family.



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# Canadians Regain The Cup!

by Rick Murphy

Some 130 Americans and Canadians showed up at Essex Country Club on Monday, April 26 to do battle for the Can-Am Challenge Cup. Under sunny skies and comfortable temperatures, the Canadian team of Scott Gardner, Kelly Barnett, Pat Herbert and Scott Dyker bested the Americans. It was a solid victory by the Canadian team, who regained the cup from the American team that won last year at The Country Club of Detroit.

Chris Andrejicka, the host superintendent, ordered up a great day of weather and had the course in splended shape. After the competition, both associations joined in snacks and drink and spent time renewing friendships. This was followed by an enjoyable meal, after which the awards were presented. Dean Baker, superintendent of Glen Abby Golf Club, did a nice job of emceeing the event. He was proud to point out that this year marked the Ontario Golf Course Superintendents Association's 75th anniversary. Congratulations, OGCSA!

This joint meeting between the OGCSA and the GDGCSA is a unique opportunity for two associations from different countries to come together and share views on the golf industry. It is a proud relationship that began some 30

years ago. The meeting takes place in late April and is slated for the Greater Detroit area in 2000.

Greater Detroit would like to extend a special thanks to Dean Baker, Paul Scenna and Dorothy Hills of the OGCSA for their work on this event. Your group did a fantanstic job organizing this event and your hospitality was surely appreciated by us all. We look forward to meeting with your group again in 2000.



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*Left* - Special athlete Andy McCay tries his luck at the putting green



*Above* - Special athlete Gayla Steele with volunteer Sharis Clifton

*Right* - Special athlete Brad Fahselt takes a turn at the putting green

*Below* - Special Olympics Committee members: Chairman Tom Schall, Kate Mason, Tim Osburn, Jon Shreve, Jim Vandenberghe and Cary Mitchelson



*Below* - Once again a great day and a great turnout for this important annual event



*Above* - Special athlete Matt Heidel with the winning team of Gerald Prieskorn, Jerry Prieskorn, Todd Cobert, Ron Adams and Scott Barrows



# Special Olympics - What A Day!

*by Jon Shreve*

I'm happy to report that the 18th Annual Special Olympics Fundraiser at Bald Mountain Golf Course was another successful event, with everyone enjoying the great weather, fun course, delicious dinner and exciting auction. Many great items were auctioned off, including a Charlie Batch autographed football, a Chris Chelios jersey and a Waterford crystal golf figurine. It got very exciting when Don Fields decided to throw plastic water bottles out to the crowd instead of giving them as raffle prizes. You had to be on your toes to avoid getting hit in the head by one as they flew about the room.

The golf event was a five-person scramble, with contests on almost every hole. The winning team was captained by Gerry Prieskhorn (surprise, surprise) with a score of 52. The second place team, led by Tom Penzien, won in a three-way scorecard playoff. There were vendor sponsors on every tee, with lots of snacks and refreshments. The hot dogs were great! Thanks to the guys from Spartan Distributors, who kept the grill going. Out on the course, Tracy Davis and Sharis Clifton brought out some Special Olympians to help on the tees for the closest-to-the-pin contests, and a putting challenge. Because of the weather, the great course and the worthy cause, everyone had a fantastic time. The Greater Detroit Golf Course Superintendents have hosted this event for the last 18 years, and have raised \$115,225.00 towards this worthwhile cause. Thanks are due to everyone who donated items and golf packages, gave their time and brought a group to play in this event. As a committee member, I witnessed how much goes into organizing an event like this.

As I mentioned earlier, there were many contests on the course, so here are the winners:

- #1 - Closest to the line - Mark McKinley.
- #2 - Longest putt - Doug Johanningsmeier.
- #3 - Closest to the pin (second shot) - Dave Balen.
- #4 - Bullseye drive - Lori Nicholl.
- #5 - Men's longest drive - Tim Barno.
- #6 - Ladies' longest drive - Lori Nicholl
- #7 - Longest putt - Mark Wohlfel.
- #9 - Shortest drive - Jim McGuire
- #10 - Closest to the "S" line - Chuck Lambert
- #11 - Longest putt - Tim Osburn
- #12 - Closest to the pin (second shot)- Mark McKinley
- #13 - Hole in one- John Cooney (not bad for a 191 yard shot into the wind). Way to go John!
- #15 - Men's longest drive (in fairway)- Tony Spink
- #16 - Shortest drive - Tom Hutchinson
- #18 - Ladies' longest drive - Mary Murphy

There were only two skins to be had. One, of course, by John Cooney on #13 and the other by the Tracy team on #4.

If you missed this event, you missed a good one, and I hope that you put it on your calendar for next year and bring a group along to play. It's a fun event on a great course and it keeps getting better every year, with the ultimate winners being the Special Olympians. Once again, thanks to all the sponsors, donors and volunteers who make this event a success, and to Kate Mason for all her hard work behind the scenes to make it all run so smoothly.



Athletes Dan Lively and Rex Bailey, volunteer Merideth Hendrix, athletes Andy McCay and Brad Fahselt, and volunteer Sharis Clifton.



# *Many Thanks To Our 1999 Special Olympics Donors, Tee Sponsors And Committee*

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# Selecting Sand For Golf Course Bunkers

by J.R. Crum and J.N. Rogers, III

Crop and Soil Science Department, Michigan State University

Selecting sands for bunkers on golf courses is just as, or even more difficult than selecting the correct sand textured rootzone material for golf putting greens. The makeup of the sand strongly impacts the maintenance and playing quality of the bunkers. The sand can also influence the architecture and style of construction of bunkers.

There are seven factors that should be considered when selecting the sand:

- Particle size
- Particle shape
- Crusting potential
- Chemical reaction (pH)
- Infiltration rate and hydraulic conductivity
- Color
- Overall playing quality

## Particle Size

As a general guideline, sand used in bunkers should be composed of particles mainly in the size range of 0.25-1.00 mm. Silt and clay (particles below 0.05 mm) should be kept to a minimum, since they are associated with surface crusting. When evaluating the particle size range of the sand for bunker use, keep in mind that bunker sand often ends up on the green in surprisingly large quantities. As golfers blast their way free of the hazard, the sand is thrown onto the adjacent green. **Therefore, when selecting sand for use in green-side bunkers the makeup of the green's rootzone must also be considered.** The same basic rule for selecting greens topdressing materials applies for selecting sand for green-side bunkers. Coarser material overlying finer rootzone material will not create a significant drainage problem, but just a few topdressings with a finer material over a more coarsely graded rootzone can cause drainage problems. If a bunker sand is selected that is significantly finer in gradation than the rootzone mixture used in the greens, additional aerification should be practiced on the affected areas of the green. Backfilling the aerifier holes with more coarsely graded sand helps move water more rapidly into the rootzone.

Material that is too coarse also can create problems. Particles greater than 2.00 mm are classified as gravel. If present in large quantities, particles in this range damage mowing equipment and cause the ball to deflect off line.

## Particle Shape

The more angular the particle shape, the less likely for a golf ball to bury and produce a fried-egg lie. But sands with very angular shapes will produce very firm bunkers that some players may find objectionable. One big advantage of angular shaped sand is they will stay on sloping bunker faces for longer periods of time, reducing the amount of

routine raking on these bunkers.

## Crusting Potential

Crusting is the formation of a layer of dried, stiff sand on the surface of the bunker. Such layers typically are 1/8 to 1/4 inch in thickness, and they severely decrease the playing quality of the bunker. Sands that are prone to crusting require more frequent raking to maintain good playing quality. If the crusting potential is high, the bunkers will require raking following each irrigation and rainfall event. This greatly increases the labor required to keep the bunkers in good condition. Crusting is directly related to the percentage of silt and clay in the sand. As silt and clay increase, the severity of crusting increases as well.

## Chemical Reaction

Some laboratories also test the sand for its chemical reaction (pH). This value is much less important overall than the other test results and, on its own, should not be used to disqualify sand being considered for use.

## Infiltration Rate

Infiltration rate refers to the sand's ability to drain (also referred to by laboratories as saturated hydraulic conductivity). This measurement is most relevant to rootzone mixes for use in putting greens, but it is also used by some to evaluate bunker sands. Since straight sand is used in bunkers, the initial infiltration rate measurement is likely to be very high - often in excess of 50 inches per hour. As a general guideline, sand being considered for use in bunkers should drain at a minimum rate of 20 inches per hour.

## Color

Unfortunately, bunker sands occasionally are selected based primarily on their color. Although sand color is important, since it strongly impacts the appearance of the course, it should not be given greater consideration than particle size, particle shape, or crusting potential.

## Playing Quality

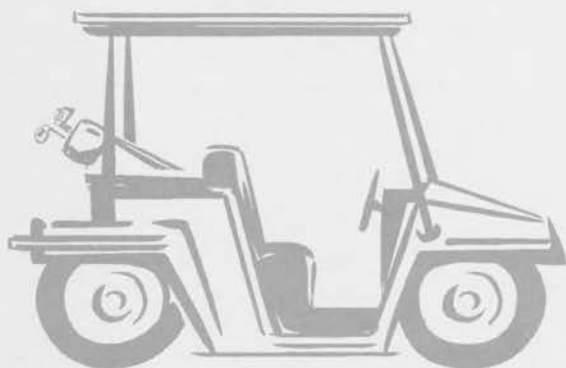
Players vary widely in their assessment of what constitutes good playing quality of sand. Some prefer firm surfaces and others just the opposite. Particle-size distribution and particle-shape control the strength or firmness and therefore the resulting feel can be controlled when selecting or blending the sand for bunkers.

## Conclusion

Clearly, there is more to selecting the right sand for your bunkers than calling the local sand plant and ordering a few

truckloads. Today's golfers are becoming increasingly more demanding of bunkers that play consistently, drain rapidly, and provide additional beauty to the course. One of the most important pieces of advice this article can offer is to remember that time is a necessary component to achieve these goals. Allow plenty of time for testing to narrow your choices to sands that are properly sized, stable, and easier to maintain. Time also is needed for the construction and use of a test bunker to allow golfers to evaluate the different sands for playing quality. Finally, time will be required for the newly installed sand to firm up and take on its final playing characteristics.

(This article is derived from an article written by Mr. Jim Moore of the United States Golf Association. For more details, visit the USGA website at: <http://www.usga.org/green>.)



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# Retention of Labor Force

by Tom Mason

Wouldn't it be great if 30-year old former employees came to see you and thanked you for all the work related skills they learned while working at your golf course? Wouldn't it be great if parents told other parents what a great place your golf course is to work and they would be well served if they could get their son or daughter a job on your staff! Wouldn't it be great if your members sought to know the names of your staff members because they respect the quality of their work? Steven Covey in his book "The Seven Habits For Highly Effective People" calls this "Beginning With End In Mind."

There are many different ways to manage people. If golf course superintendents are to be successful, then they have to be able to adapt to differing personalities & stress tolerances, motivational needs, generational changes, fluctuating behaviors, cultural and expectation variances & gender differences. Many of these adaptations come on a daily basis. One thing is constant in the life of a golf course superintendent and that is the need to adapt to change.

With all the different sources of labor utilized in the golf course maintenance business in the 1990's, the ingredients for successful management of this labor remain timeless. These ingredients include a well thought out hiring process, an honest and introspective understanding of the superintendent's role and a vigilant monitoring of the characteristics, climate and culture of the workplace.

Every prospective employee at Birmingham CC will know that we are looking for nice and friendly people who will be compatible with the other employees. They will be expected to be the type of persons who care about doing a good job. They will be expected to be interested in enriching their lives and future careers, as well as those of their fellow employees. They will be expected to be proactive. They will be expected to be constantly striving to improve their skills and standards of quality. They will be expected to communicate with other people. They will be expected to ask questions about anything that is unclear. They will be expected to seek ways to improve the business in terms of methods of operation, safety, time management and efficiency. They will be expected to have the drive to work as intelligently and thoroughly the last hour of the day as they did the first, and the last day of the season as thoroughly as the first day of the season.

They will understand that I believe our mission is to get the golf course in optimum condition and keep it that way. They will understand that everything I say and do will be toward that end. They will understand that I believe in the

prospect that everything a person does says something about that person and it should matter to them. They will understand that I believe in the prospect that when a person says "Yes" to do a job, then all of the expectations that have been mentioned are applicable. They will understand that I believe that almost every person wants to do a good job and to improve their personal skills. They will understand that in return, I will strive to give any and all tools necessary to be successful in doing the job, enriching their work skills and their perception that working at BCC was a good idea.

As the golf course superintendent at Birmingham CC, my role is to be proactive in all management/employee relations. I have to be exactly the type of person that I asked them to be in the hiring process on a daily basis. I have to ensure that my assistant superintendents are consistent with my beliefs and perspectives. Our success is predicated by our ability to teach. We have to teach priorities. We have to teach efficiencies. We have to teach employees to see a bigger picture. We have to teach observation and perception. We have to teach compromise of situations, consideration of other people and discipline of our standards. We have to look for opportunities for them to have an impact on our business. We have to listen to them. We have to yield to their good ideas. We have to make them feel as though they are an important part of the product because they are.

The characteristics, climate and culture of the workplace will often determine success in retaining a good productive labor force. Attention to the following factors will determine if I am successful in providing a good workplace:

## **Trust - Of me**

- Of my word
- Of my truthfulness
- That I have talent and knowledge of my business
- That I can plan and organize
- That I know what is important
- That I am loyal, especially to those not present
- Of my ability to listen
- That I'll keep my promises
- That I'll be open and approachable
- That I'll be kind, respectful and consider others
- That I'll be clear in my communications
- Of my ability to give and take feedback/criticism
- That I have enough influence within the club to represent them

They have to trust that when I make mistakes, I can

acknowledge it and apologize for them.

**Organization** - Employees must know that I am making the best use of their time.

**Pace** - Everyone's job becomes easier, faster and less stressful if we can minimize inefficiencies due to procrastination, lack of thinking, inconsiderate behavior toward others.

**Attitude** - Everyone (both management and employees) have to understand that a good attitude breeds good will, optimism, contentment and self-respect.

**Stress** - I can never forget that employees are the first to see the signs associated with management's inability to handle adversity.

**Fairness** - Everyone wants to be treated fairly. The clarity of my communication often determines if there is perception of unfairness.

**Teamwork** - Leads to the synergism associated with creating a feeling of belonging and helping others find value for their effort.

**Communication** - The lubricant that makes everything flow toward harmony and understanding in order to create value for everyone.

**Empowerment** - Expanding an employee's potential perspectives, knowledge, leadership and self respect can only enhance productivity and loyalty.

**Delegation** - I have to take every opportunity to show faith and confidence in others, along with

maximizing the use of time (both theirs and mine).

**Standards** - All employees have to know that the quality of work is never compromised. Standards are an opportunity for others to hone the skills associated with self-respect, personal habits, discipline and giving example to other employees.

**Helpfulness** - Employees have to seize every opportunity to create teamwork and consideration for others and see how this contributes to a quality product.

**Consistency** - Quality work is not just associated with what they do as employees, but who they are as people.

**Time** - Every person has an optimum number of hours that they can work to be effective. If one crosses that line, then they are heading down the road to being ineffective, stressed and inefficient.

Quote from Johann Von Goethe:

*"Treat a man as he is and he will remain as he is. Treat a man as he can and should be and he will become as he can and should be."*

Quote from Steven Covey:

*"You can buy peoples hands, but you can't buy their hearts. Their heart is where their enthusiasm and loyalty is. You can buy their backs, but you can't buy their brains. That's where you find their creativity, their ingenuity and their resourcefulness."*

## *1999 MTF Field Day*

The 1999 Michigan Turfgrass Field Day will be held Wednesday, August 18, 1999 at the Hancock Turfgrass Research Center, Michigan State University, East Lansing, Michigan. Details regarding this event will be mailed in July. For further information, contact Kate Patrick at 517-321-1660.

## DIFFERENTIAL EVAPOTRANSPIRATION

*By: David B. Beck, P.E.*  
David B. Beck & Associates, Inc.  
Seattle, Washington

With the last couple of issues, we have discussed evapotranspiration (ET) and its relationship with climate, time of year, and the soil moisture reservoir. In this issue, we will discuss evapotranspiration on a localized basis, within a single golf course. In addition to environmental conditions, local site factors can have an large influence on plant water consumption. Within a golf course there are many factors which combine to make water consumption vary from hole to hole and many times within the same golf hole itself. South facing slopes have a more direct sun angle and increase the intensity of sunlight falling on the plants. ET on south facing slopes is generally always greater than that in flat areas and generally much greater than that on north facing slopes. This differential ET is true despite the fact that the two areas may be directly adjacent to one another and all other ET influencing factors are identical. Other examples of ET differentials are associated with wind exposed ridges where ET can be high, versus wind protected canyons or river bottoms where ET will likely be lower. Turfgrass grown in shaded areas will use less water than turfgrass grown in direct sunlight. However, the source of the shade must be considered when evaluating irrigation requirements. If the shade is produced with a nearby tree, the shaded turf may be using water from the same soil moisture reservoir as the tree itself and the sum of the individual ET requirements for the tree and the turfgrass may combine to require a greater amount of irrigation than turfgrass grown in the direct sunlight. If the shaded turf is behind a building or other obstruction such as a steep walled canyon, the shaded turf will require less water.

Efficient programming of irrigation systems for golf courses requires a constant and careful evaluation of climatic conditions combined with local features which influence differential ET. Any individual sprinkler or controller station might require multiple adjustments to compensate for these water use variables. However if the superintendent uses a scientific approach the task of daily irrigation scheduling becomes surprisingly simple. First, as discussed in last month's issue, a daily reference or global ET source must be established. Using a weather station, ET-gauge, or other daily water use estimate, the entire irrigation system can be adjusted globally from the irrigation central. As an example, if a given day's water use is 80 percent of the irrigation systems maximum application, the entire golf course is set for 80 percent of maximum application. The central controller is always programmed relative to this global ET measurement. To compensate irrigation for localized or differential ET requirements on the golf course, individual stations are adjusted up or down based on the relative water requirement for which the individual stations are operating. As an example, a controller station watering a south slope may be set at 21 minutes of total water time per maximum irrigation while a north facing slope may require only 10 minutes of total water time during maximum irrigation. With the new computer central controllers, station ET adjustments are used to adjust individual station run times and therefore, a south facing slope may require a station ET adjustment of 130 percent while a north facing slope may require a station ET adjustment of 60 percent. Once balancing is achieved on the station level, no further adjustment will be required to station times. These example south and north facing slopes will generally always have the same relative difference in water use whether it be during the peak irrigation season, the spring or fall of the year or even the peak irrigation season 10 years in the future. Proper balancing of a golf course irrigation



system generally takes a full irrigation season to achieve. However, once properly balanced on the station level, daily irrigation adjustment will generally only require global adjustment to daily ET at the irrigation central.

To learn more about daily irrigation scheduling and system balancing, check these references:

- 1) Beck, D.B. "Central Control Methodology for Golf Course Irrigation Scheduling" Northwest Turfgrass Topics, Fall 1997
- 2) Beck, D.B. "Irrigation Scheduling: Getting the Most From Your Central Controller" A Patch of Green, Summer, 1997
- 3) Beck, D.B. "ET Scheduling Simplified: Stepping up Runtimes". Irrigation Business and Technology, October 1996 Volume 4 Number 5, p 14.
- 4) Duble, R.L. "Water Management on Turfgrasses" Plantanswers Web Site, Texas A&M University  
URL: <http://aggie-horticulture.tamu.edu/plant>

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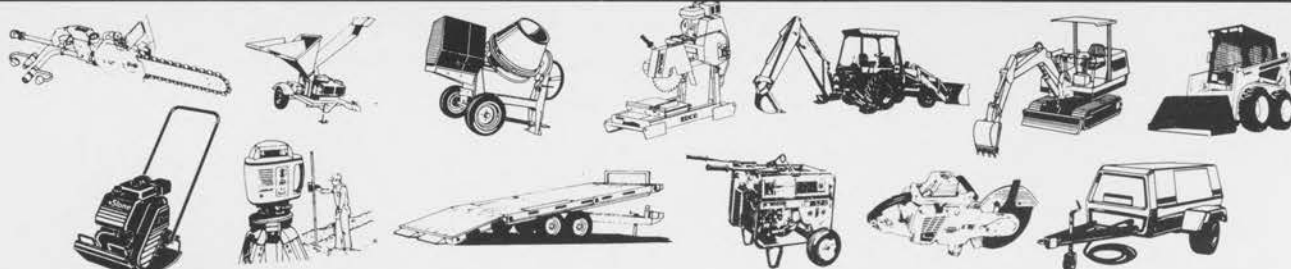
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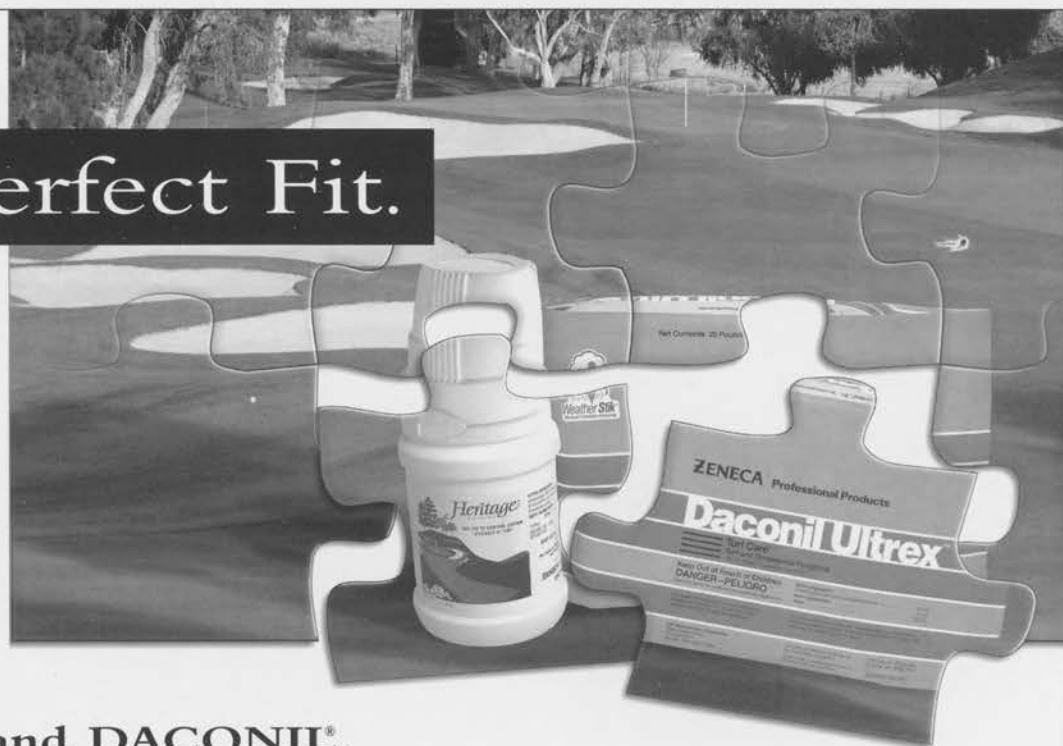
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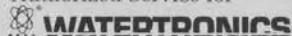
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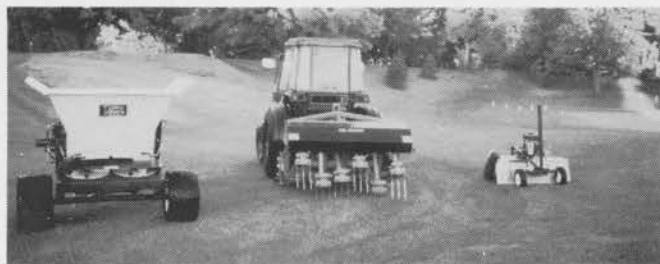
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Pine Lake  
Lottery will be held on site for Oakland Hills North or  
South placement.

##### Y2K COMPLIANCE (E.S.)

E.S. investigating the compliance of our  
programs

##### POLICY BOOK (Szyndlar)

Committee chairs are required to  
update the policy as events are  
completed this year.



#### Commercial/Environmental Turf Services

##### Contract Aerification Includes:

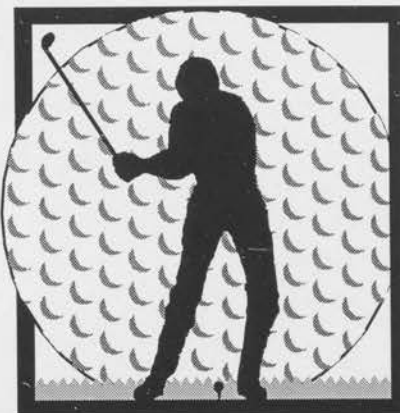
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## Board Meeting - Knollwood Country Club Tuesday, April 27, 1999

### FINANCE (McKinley)

Feb. Assn svgs: \$32,814.16    Feb. Fdtn svgs: \$844.70  
Feb. Assn chkg: \$490.22    Feb. Fdtn chkg: \$464.94

Dues increase will be proposed to the membership and voted on at the June meeting. Increase will (1) cover the rising costs of the Michigan Room (2) upgrade equipment and meet increase in day-to-day expenses (3) Increase compensation to Ex.Sec.

### SPECIAL OLYMPICS (Schall/Jones)

Date: Friday, May 21

Site: Bald Mtn.

Affiliate and Supt members have been contacted by committee for sponsorships and prize donations.

### EDUCATION (Murphy/Schall)

April 26 mtg was hosted by the OGCSA @ Essex G & CC. Great day.

June 21 mtg - Site: Scalawags, Speaker: Paul McGinnis, Past Pres GCSAA,

Topic: Ethics and GCSAA history

Event: Association Championship

2000 meeting schedule being formulated

### MEMBERSHIP (Murphy)

Membership-418    Applications-4

### GOLF DAY (Dorner/Abbott)

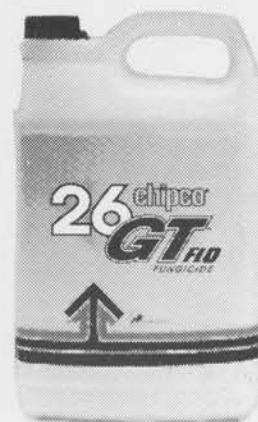
Flyers to be mailed in the July/August (Mid-Summer) issue of P.O.G..

### Y2K COMPLIANCE (E.S.)

Accountant advises upgrade to Quick books Pro 99.

Mike Plague to be hired as consultant to evaluate remainder of system.

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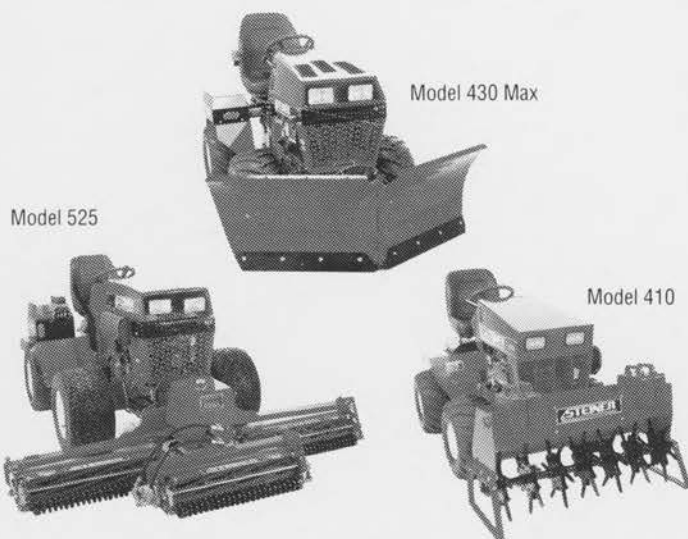
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GREATER DETROIT GOLF COURSE  
SUPERINTENDENTS ASSOCIATION  
Statement of Financial Position  
December 31, 1998

	1998	1997
<b>ASSETS</b>		
Current assets		
Cash	\$33,562.00	\$41,923.00
Accounts receivable	6,300.00	6,560.00
Dues receivable	<u>200.00</u>	<u>440.00</u>
Total current assets	\$40,062.00	\$48,923.00
Equipment (net of depreciation)	<u>3,459.00</u>	<u>1,172.00</u>
<b>TOTAL ASSETS</b>	<u>\$43,521.00</u>	<u>\$50,095.00</u>
<b>LIABILITIES</b>		
Current liabilities		
Accounts payable	\$ 541.00	\$ 686.00
Income tax payable	102.00	1,000.00
Unearned income	<u>-</u>	<u>460.00</u>
<b>TOTAL LIABILITIES</b>	\$ 643.00	\$ 2,146.00
<b>EQUITY</b>		
Membership equity	<u>42,878.00</u>	<u>47,949.00</u>
<b>TOTAL LIABILITIES &amp; EQUITY</b>	<u>\$43,521.00</u>	<u>\$50,095.00</u>

GREATER DETROIT GOLF COURSE  
SUPERINTENDENTS ASSOCIATION  
Statement of Revenue and Expenses  
For the Year Ended December 31, 1998

	1998	1997
<b>REVENUE</b>		
Advertising	\$ 53,424.00	\$ 54,612.00
Dues	32,333.00	34,559.00
Interest	850.00	849.00
Meeting fees	<u>39,905.00</u>	<u>43,125.00</u>
<b>TOTAL REVENUE</b>	\$122,512.00	\$133,145.00
<b>EXPENSES</b>		
Awards	\$ 2,000.00	\$ 2,000.00
Depreciation	1,041.00	955.00
Income taxes	1,655.00	2,200.00
Insurance	1,096.00	1,090.00
Magazine production & mailing	40,210.00	39,905.00
Meetings	50,149.00	46,061.00
Membership welfare	312.00	291.00
Postage	2,677.00	2,832.00
Printing & supplies	2,085.00	1,317.00
Professional fees	22,145.00	24,372.00
Repairs & maintenance	1,954.00	2,154.00
Telephone	1,583.00	1,407.00
Miscellaneous	<u>676.00</u>	<u>305.00</u>
<b>TOTAL EXPENSES</b>	\$127,583.00	\$124,889.00
Change in membership equity	(5,071.00)	8,256.00
Beginning membership equity	<u>47,949.00</u>	<u>39,693.00</u>
Ending membership equity	<u>\$ 42,878.00</u>	<u>\$ 47,949.00</u>

GREATER DETROIT GOLF COURSE SUPERINTENDENTS FOUNDATION  
Statement of Revenue and Expenditures  
For the Year Ended December 31, 1998

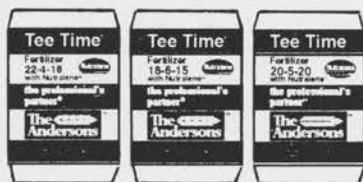
	Golf Day	Special Olympics	1998 Total	1997 Total
<b>REVENUE</b>				
Donations	\$31,885.00	\$19,266.00	\$51,151.00	\$51,782.00
Event fees	25,850.00	11,405.00	37,255.00	36,852.00
Interest	<u>224.00</u>	<u>120.00</u>	<u>344.00</u>	<u>393.00</u>
<b>TOTAL REVENUE</b>	\$57,959.00	\$30,791.00	\$88,750.00	\$89,027.00
<b>EXPENDITURES</b>				
Research/scholarships/donations	\$25,500.00	\$20,966.00	\$46,466.00	\$47,647.00
Event fees	31,865.00	10,139.00	42,004.00	41,108.00
Miscellaneous	<u>33.00</u>	<u>33.00</u>	<u>66.00</u>	<u>66.00</u>
<b>TOTAL EXPENDITURES</b>	\$57,398.00	\$31,138.00	\$88,536.00	\$88,821.00
Fund balance increase (decrease)	\$561.00	(\$347.00)	\$214.00	\$206.00
Beginning fund balance			<u>22,186.00</u>	<u>21,980.00</u>
Ending fund balance*			<u>\$22,400.00</u>	<u>\$22,186.00</u>

\*This balance is not included in the assets of the association



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## Greater Detroit GCS 1999 Meeting Schedule

Jun. 21	Annual Golf Championship (Scalawags)
Jul. (TBD)	Picnic
Jul. 29	The Invitational (Pinewood GC)
Aug. 18	MSU Field Day/State Supt. Tourney (Forest Akers)
Sept. 20	Wolfom Classic (Maple Lane)
Oct. 4	"The Big Event", MTF Fundraiser
Oct. 18	Annual Business Meeting (Twin Lakes CC)
Nov. 9	Regional GCSAA Seminar (Double Tree Hotel)
Dec. (TBD)	Holiday Party
Dec. 7	Supt. Roundtable Mtg. (Birmingham CC)

## Western Michigan GCSA 1999 Meeting Schedule

Jun. 14	CC of Jackson
Jul. 20	Boulder Creek GC
Sept. 13	Golf Day (Kent CC)
Oct. 5	Annual Meeting (Walnut Hills CC)

## Mid-Michigan GCSA 1999 Meeting Schedule

Jun. 14	Sawmill
Jul. (TBD)	Flushing Valley
Aug. 16	Apple Mountain
Sept. 27	Fundraiser (Emerald at Maple Creek)
Oct. 18	Annual Meeting (Indianwood)

## Northern Michigan Turf Managers Association 1999 Meeting Schedule

Jun. 14	Fundraiser for MTF (Hidden River Golf & Casting)
Jul. 11	Family Picnic (Beaver Creek)
Aug. (TBD)	Association Meeting (Lakes of North GC)
Sept. (TBD)	NMTMA Fundraiser (Indian River GC)
Oct. (TBD)	Annual Meeting & Tuck Tate Championship (Red Hawk GC)

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