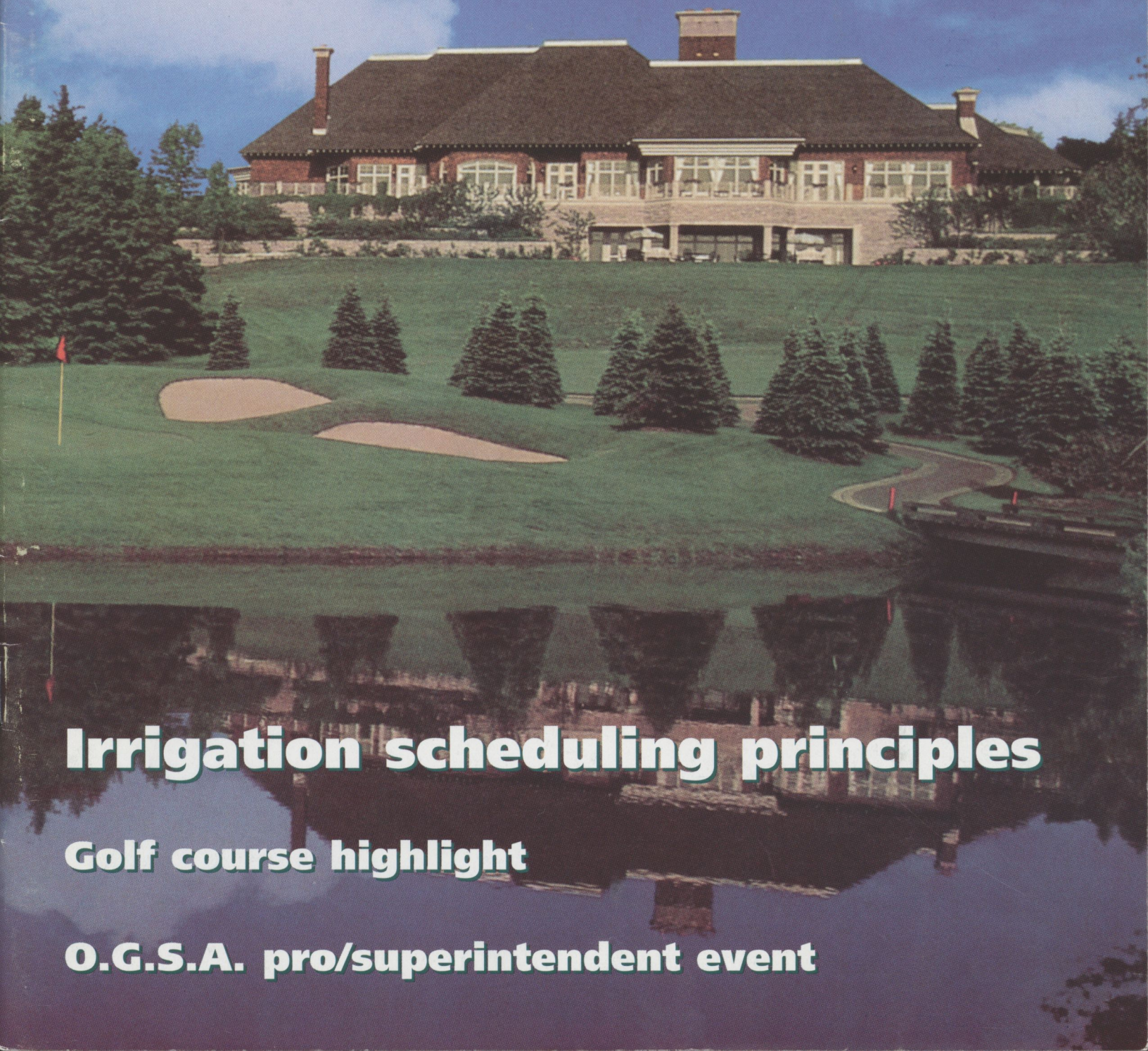


June 2000

Green is Beautiful

The Official Publication of Ontario Golf Superintendents' Association



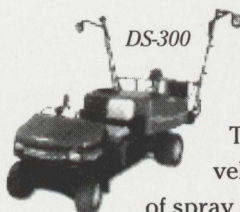
Irrigation scheduling principles

Golf course highlight

O.G.S.A. pro/superintendent event



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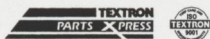
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Green is Beautiful

The Official Publication of Ontario Golf Superintendents' Association



COVER PICTURE

**King Valley Golf Club
King City, Ontario**

Photo provided by Club Link



Our apologies, the above cover picture for April's issue of Green is Beautiful was not acknowledged.

Sleepy Hollow Golf Club Stouffville, Ontario

Photo taken by Randy Booker,
Golf Course Superintendent

President's message

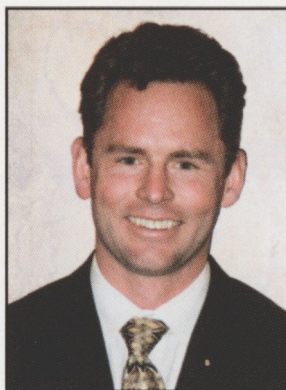
I write this message after spending five days cleaning up after torrential rains caused flooding across three fairways, major bunker wash outs and one lost foot bridge. However, I consider myself lucky, as many in the GTA will be spending the next few weeks cleaning up. I hope everyone is successful and remember that a crisis today is the joke for tomorrow. Of course, we may not laugh for a little while after this.

The Board of Directors have approved the publishing of the 75th OGSA History Book. Furthermore, the Board has agreed with the sub-committee's recommendation that it be distributed to each member of the OGSA as a gift. Additional copies will be available for sale. We anticipate that this book will be ready by the fall.

The Pro/Superintendent event was held at King Valley and once again Dean Baker and Paul Scenna organized a great event. The host Superintendent, Jason Honeyball had the course in great shape after the rain. Our Spring Field Day offered an opportunity to see what was going on at the GTI, and to enjoy a game of golf and an excellent meal at the Victoria Park East Golf Club.

The Association is watching Bill C-388 very closely. John Gravett will be recommending any action that may be required. Even though it is the homeowners and lawn care industry that are being targeted now, it may soon be the golf course industry.

Good Luck to everyone in the coming months.



Keith Bartlett
Thornhill Country Club



ONTARIO GOLF SUPERINTENDENTS' ASSOCIATION

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Guelph, ON N1H 6H8

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O.G.S.A. Junior Golf Club Charity Drive

encourages you to bring your used clubs to the next OGSA Tournament. We will have them refitted and donate them to the RCGA to distribute to those young up and coming golfers who cannot afford to play the game, due to the cost of equipment.

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GREEN IS BEAUTIFUL EDITORIAL COMMITTEE

Bob Burrows, Editor
Dorothy Hills, Coordinating Manager
Randy Booker
Angelo Capannelli
Greg O'Heron
Mark Piccolo
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Green is Beautiful 2000

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Editor's message



Bob Burrows
Rosedale Golf Club

This month's edition will include some new initiatives and now regular articles. At the last editorial committee meeting in March, there arose some excellent ideas. I have tried to incorporate most of them into this magazine, and I hope you like the changes. The months of June and July are times when water issues are at the forefront of our minds, so we have included an article on irrigation. We will try to include articles on seasonal issues, in order to give the membership a means of keeping abreast of recent developments or just as a refresher on maintenance tips.

A regular update of CGSA activities is now included and submitted by Ontario Director, Mr. Bill Fach. The Ontario Golf Association has nominated Mr. Bob Leggitt, rules guru, to submit something relating to rules and how course maintenance may affect various options for relief taken by a player, entitled 'The Referee'. A potentially popular column entitled 'Highlight a golf course' will begin with Peterborough Golf Club. We have identified various golf clubs from across the Province whom we would like to highlight. We have developed a standard 'fill-in-the-blanks' form which is available to all members, so if you would like to participate, please contact Dorothy Hills to obtain a copy. Apart from the aforementioned features, we will continue to include articles by the GTI, Doug Breen, Barry Endicott, Doug Johnson on Health and Safety issues, and the Mechanics Association.

Contained in the April issue was an article by Mr. Eddie Konrad, a good

mechanic speaking for the silent minority of technicians who sometimes feel frustrated by an occasional lack of communication. I recognized that this message would potentially pose a controversy, but when I edited the final draft of the April issue, I allowed the article to be included. From my point of view, it is sometimes a good practice to 'look yourself in the mirror' and ask "can I do better?" Sometimes articles should be thought-provoking and not just on technical issues relating to turf. I sincerely hope that you took Eddie's message that way. I hope your course was not terribly damaged from our recent torrential rainfall.

YOU COULD BE THE LUCKY WINNER



Green Is Beautiful Article & Photo Contest

SEE INSERT
FOR DETAILS



O.G.S.A. Welcomes our newest members

John W. Bontje Shelburne Golf Club	Class A
Tom Brain Burlington Golf & CC	Class C
Chris Coholan Midland Golf & CC	Class A
Todd Currie West Haven Golf & CC	Class B
James Dimitriw Lowville Golf Club	Class B
Jason Eberle Windermere Golf & CC	Class B
William (Bill) Thomas Green Guelph Turfgrass Institute	Class S
Peter Humeniuk St. Georges Golf & CC	Class F
Jason Ireton Conestoga Golf Course	Class B
Mickey McCue Whitevale Golf Club	Class F
Tyler Strachan Muskoka Lakes Golf & CC	Class C
Atkinson Irrigation Peter Atkinson	Class E
Chipco Professional Products (Aventis Environmental Science) William A. MacMurdo and Normand Drapeau	Class E
Kooy Brothers Lawn Equipment Limited Karl VanDer Veen	Class E
Robert Kains Golf Course Design Ltd. Robert Cains	Class D
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Canadian Golf Superintendents' Association news

by Bill Fach, Superintendent
York Downs Golf & Country Club

Annual Conference and Trade Show was a success!

As most of you are aware, the Annual Conference and Trade Show was held in Ottawa in the first week of March. For the Superintendents who were unable to attend this event I have mentioned some of the highlights that might be of interest to you. Merlin Affleck, superintendent of the Stanhope Golf and Country Club in PEI was elected as the new President of the CGSA for the year 2000. The conference was well received by all attendees with the numbers being comparable to last year's conference held in Toronto. The silent auction was again a success, generating gross revenues of \$93,505.00. The net revenue earned from this event which debuted in conjunction with last year's silent auction will support the Superintendent's Education and Professional Development Fund, reinforcing CGSA's view that education is the cornerstone of all Professional's working lives. The CGSA sincerely wishes to thank the 71 donors and bidders for making this a success. A final note on the Superintendent's Education and Professional Development Fund. A round table discussion with superintendent's across the country was held during the conference to help the Board establish "the parameters" of the fund. The result of that meeting was that most of the attendees at the meeting thought that a high percentage of the fund should be available to all members and that money from that fund could be used to develop seminars consistent with National Occupational Standards. At the next Board meeting all these suggestions will be discussed and some of the ideas will be brought forward.

Education/Standards - where are we now?

As you are aware, the CGSA Board, along with regional representatives and Educators from across the country met in Toronto in early January for an

Educational Summit. There were lots of discussions that took place at that meeting, and at the end of the 2 days a two-year plan was set. The plan consists of the Education institution identifying what programs are being taught now and how close these programs meet the National Occupational Standards set out by our members. To help in developing this plan the CGSA was to decide what our educational needs were and the best and most affordable way of delivering those needs. In March, at the conference the Board and Educators met again to further discuss the subject of education and how it is going to fit into the NOS (National Occupational Standards). With the information brought forward by the Educators and the work CGSA will be doing in the fall with regional focus groups, it looks like we will be successful in our initiative. These focus groups will be set up like the ones that were done to develop the NOS but this time we will be developing competency levels for each task in the Dacum Chart (Developing and Curriculum Chart). This information will then be given to the Educators that they can develop programs at their institution that students coming out of the program will meet the needs of NOS. Also, with this information seminars can be developed that will be used to further develop the superintendents in the field.

Who's our Superintendent of the Year?

The CGSA Superintendent of the Year nominations deadline is quickly approaching. If you or your region have a potential nominee please contact the CGSA office for an official nomination form. Nominations must be received no later than August 1st 2000. For more information of what is required please contact Chuck Desveaux at (800) 387-1056 ext 223. It would be nice to have an Ontario Superintendent win this year's award!

Website - www.golfsupers.com

Our website is now up and running! The services and options available on-line will grow to meet the demands of members. A members-only chat area is being developed and will be available to members in May. We're always looking for feedback, so please let us know if you have an idea for the website. Beginning July 1st all members will require a "password" to go on-line which will be supplied to you upon renewal of your membership. Membership renewals will be sent in May for the 2001 membership year beginning July 1st.

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March	26 - 30, 2001
April	9 - 13, 2001
May	7 - 11, 2001

MILTON

December	4 - 8, 2000
April	2 - 6, 2001

LONDON

March	19 - 23, 2001
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OTTAWA

March	5 - 9, 2001
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O.G.S.A. events

O.G.S.A. ANNUAL CURLING DAY

Alan Beeney, Superintendent of North Halton Golf Club was again the perfect host for the annual O.G.S.A. Curling Day March 15th, 2000. As this event has become more popular, the participants have really started to make a day of it! Hours before the first rock gets thrown, the "die hard" curlers arrive for an early lunch and great comradery. It's also a great way to get caught up on what's going on in the industry. Teams are picked, then its up to the skips to see



First Place, A Flight: Rhod Trainer, Nigel Rennie, Robert Cowan, Jason Pummell, Al Beeney

their teams through. Thanks should also be given to the generosity of the distributors and suppliers who participate and supply all of the prizes.

This years' winning team was captained by Rhod Trainer, who himself had just come off a very busy winter doing what he does best in the off season, Curl. Dean Cormack's distributor / supplier team, with Paul White from the Briars came in a smooth second. Our thanks to all the participants for a great day, and once again to Al, who always looks forward to having us.



Second Place, A Flight: Kerry Whale, Alex McCloud, Dean Cormack, Al Beeney, Paul White

GREATER LONDON ASSOCIATION OF GOLF SUPERINTENDENTS

On a rainy afternoon on May 18th, 2000 at the Twin Streams Golf Club, 30 brave souls played this year's first G.L.A.G.S. event.

This event was used as a fundraiser for one of their own, Mike Finlayson (former superintendent at Sawmill Creek in Sarnia), who was diagnosed with a rare form of cancer, approximately 6 months ago. In that short amount of time, Mike has undergone 4 operations and has been

in the hospital for 80 days. His job at Sawmill Creek was terminated when he became ill. Mike has a wife and two very young children to support.

As always, the generosity of our Golf Industry came through at the tournament, where a raffle was held with prizes, which were donated by Turf Care, All Turf, United Horticultural Supply, Weston Golf Club, Exeter Golf Club, Burford Golf Club, Plant Products, Vanden Bussche Irrigation, Nu-Gro and River Valley Golf Course. Deanna Dougan, from River Valley Golf Club, personally donated an autographed hockey stick

from the New York Rangers, to be raffled off. A total of \$530.00 was raised; not a small feat, considering only 30 people showed up to play golf, due to the rain.

The members of G.L.A.G.S. are hereby challenging all Golf affiliated Chapters to match or beat the \$530.00 that was raised. Any person who wishes to personally donate money towards this fund please write a cheque for Mike Finlayson and send it to Everett Nieuwkoop, 390 Stirling Avenue S., Kitchener, Ontario, N2M 3H9, who forwarded it to Mike and his family.

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In this business, there is no room for duffers. We can be your environmental partner, able to deal with the issues of today while incorporating impending compliance requirements as well. Loraday Environmental Products can recommend the products and assist you in implementing the practices to ensure your course is coming up Fairways and Greens.

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Border cities Can/Am golf challenge

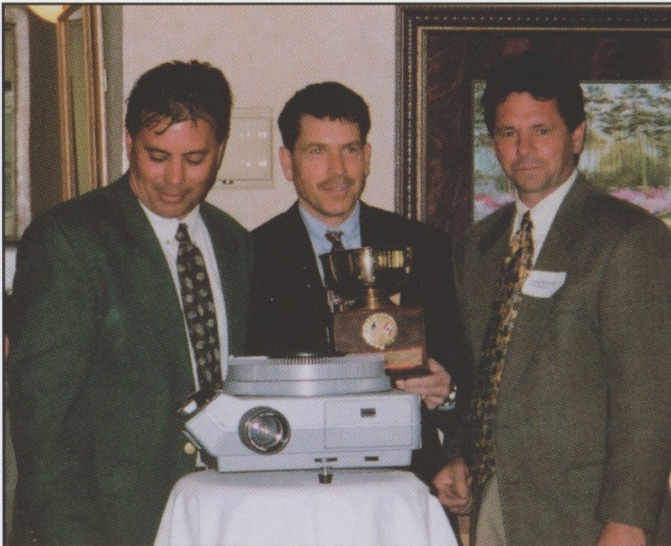
Forty Canadians made the journey down to Detroit this year for the Border Cities Golf Challenge on Monday, April the 24th. Host Superintendent Jim Houston, at West Shore Country Club had great spring conditions, not to mention warm and sunny weather. The Detroit Chapter once again attracted the heavy hitters from Michigan State. Joe Vargas and Trey Rogers made their annual appearance to support the tournament. Unfortunately for the Canadians, our winter must have been a little more severe, for we were unable to bring the Challenge Cup home for a second year. Carey Mitchelson and Gary Thommes were among the

winning American team that recaptured the cup. On a Canadian note, our own O.G.S.A. Director Paul Scenna from Donalds Golf Club tied for low score of the day.

The Canadian loss may also be blamed on the Maple Leafs being in the play-offs and everyone wanting to get back to watch the game. Our apologies to the Greater Detroit Super's for a hasty departure, but when Canadians are still in winter hockey mode, it's hard to think Golf. We always appreciate the great hospitality and look forward to hosting the tournament back in Canada next year. Hoping the Challenge Cup tastes Canadian soil again soon!



Our own Director, Paul Scenna, accepting his prize for low score Canadian



The winners of the Challenge Cup Carey Mitchelson and Gary Thommes

CONGRATULATIONS!

O.G.S.A. scholarship

Mr. John Hamm, is the recipient of our \$200.00 Short Course Turfgrass award, which goes to the student with the highest overall mark. John attained an 88.7% average and is now the Assistant Superintendent at Lynn Meadows Golf Course, in Port Dover. Congratulations John, on your academic achievements, and best wishes on your future endeavours.



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Health and safety

Excavating and the act

by Doug Johnson,
SAFETAID... your first stop in safety

A few months ago, I wrote about the need to have a solid Health and Safety program in place at your club. I primarily discussed the general need to have a program and the need to provide WHMIS training. I believe that it is important to realize that there are a number of other aspects of a health and safety program that should be addressed.

With the summer season in full swing and construction in the works or being planned for the fall, you should know that there are aspects of the Act and regulations that may play an important part in your construction decisions. As most of you are aware, you must follow the requirements of the Act and the Industrial Regulations for the general operation of your work area. Were you also aware of the requirements of the regulations for construction projects?

It is extremely important that you consult the Construction Regulations when you are doing any form of construction, as there may be issues that you must consider and address during this phase of your work. For instance, if you are doing upgrades to your underground irrigation system or

ponds, and you, or an outside contractor, gets involved in trenching or excavating, there are very specific requirements identified in the Construction Regulations. Check out Part III of the Construction Regulations where the rules for excavating are identified. This part of the regulations clarifies your obligations, as representatives of the owner, for excavating and trenching on your site.

The owners of the club have an obligation to set the standards at your facility and you, as the superintendent, have the obligation to set the standards in your work area and to enforce those standards. This obligation goes well beyond the rules for your direct employees. It covers work performed by anyone contracted to perform work or supply services at your club.

Remember that if you have a contractor working on your site and you are the contact person for the project, then you may be held responsible for infractions or accidents, even if the contractor causes them.

Know your obligations and have a safe and effective construction season.

NOTICE TO ALL PURCHASERS AND CURRENT USERS OF

CLEAN CROP PMA 10, SCOTTS PROTURF BROAD SPECTRUM GRANULAR FUNGICIDE

AND

CALO-CLOR TURF FUNGICIDE

Because of environmental and health concerns associated with all mercury based products, and since alternative products are now available for all turf uses, actions have been taken to discontinue the registration of mercury based fungicides Clean Crop PMA- 10 (Registration #9569), Scotts Proturf Broad Spectrum Granular Fungicide (Registration #11339) and Calo-Clor Turf Fungicide (Registration #3294).

These products have not been manufactured since 1995. Some inventories may still be in the distribution and retail system.

This is to advise you that above mentioned products are only registered for use until December 31, 2000. Sale and use of these products after this date will be illegal.

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Golf course highlight

Peterborough Golf and Country

1030 Armour Road
Peterborough, Ontario
K9J 6Y8, Canada

COURSE PROFILE

WHAT COUNTY IS YOUR CLUB LOCATED IN?

Peterborough County

IS YOUR CLUB PRIVATE, SEMI PRIVATE, PUBLIC, RESORT, MUNICIPAL?

Private

SIZE OF MEMBERSHIP?

700 members

NUMBER OF ROUNDS?

44,000 1999

TYPICAL OPENING AND CLOSING DATE?

Mid April through Mid December

NAME OF SUPERINTENDENT?

Greg O'Heron

HOW MANY YEARS HAVE YOU BEEN A SUPERINTENDENT?

15 years

ARE YOU CGCS OR MASTER SUPERINTENDENT?

No

LIST OTHER ACCOMPLISHMENTS (AUDUBON, BOARD SERVICE ETC.)

Audubon charter members, not yet completely certified

HOW MANY YEARS HAVE YOU BEEN AN O.G.S.A. MEMBER?

18-19 years

HOW MANY YEAR ROUND STAFF?

4

HOW MANY SEASONAL STAFF?

12

HOW MANY MECHANICS AND ASSISTANTS?

1 Mechanic and 1 Assistant

HOW MANY GARDENING STAFF?

1 plus co-op students from secondary school

COURSE STATISTICS

HOW MANY HOLES?

18 holes

WHAT IS THE YARDAGE FROM BACK TEES AND FORWARD TEES?

6,500 yds. and 5,300 yds.

WHAT IS THE SIZE AND LENGTH OF DRIVING RANGE AND RANGE TEE?

Full size range with bunker and practice greens

HOW MANY BUNKERS?

31

HOW MANY PONDS, AND/OR HOW MANY TIMES DOES WATER COME INTO PLAY?

6 water features

WHO WAS THE ORIGINAL ARCHITECT?

Stanley Thompson

WHAT WAS THE YEAR OF ORIGINAL CONSTRUCTION?

1933

BY WHOM AND WHEN WAS THE COURSE REMODELLED?

Rene and Charlie Muylaert

WHAT MAJOR TOURNAMENTS HELD?

None

WHAT IS THE SIZE OF YOUR MAINTENANCE SHOP?

5000 sq ft shop plus a 100+ year old barn

WHAT TYPE OF IRRIGATION SYSTEM?

Toro VT 2 hydraulic double row automatic system, 10 years old. Drainage system is 9 years old and is definitely the better value system of the two, as it works 12 months of the year and produces a healthier plant requiring less water.

WHAT IS THE SIZE OF THE GREENS, TEES AND FAIRWAYS?

Greens average 5000 sq. ft., tees 160,000 sq. ft. and 25 acres of fairway



WHAT IS YOUR PREDOMINANT GRASS?

Poa / Bent mixture

HOW MANY USGA GREENS AND HOW MANY LOAM GREENS?

10 sand greens and 8 push-up soil

WHAT IS THE PREDOMINANT SOIL TYPE?

Topsoil over glacial till

WHAT EQUIPMENT DO YOU HAVE IN INVENTORY?

Not enough!!

COURSE PROJECTS

WHAT PROJECTS HAVE YOU RECENTLY COMPLETED?

On going increase in tee area and a major bunker renovation program was refused by the members 1999 but not dead in the water YET

LONG RANGE PLANS

WHAT LONG RANGE PLANS FOR RENOVATION DO YOU HAVE IN THE NEXT FIVE YEARS?

Long Range Plans have been established by Carrick Design for the entire property.

CHALLENGES

ARE THERE ANY PARTICULAR CHALLENGES YOU FACE WITH YOUR PROPERTY?

- Too many rounds
- Golfers expectations, and TV golf and TV events don't do a profile like this for comparison.
- Different greens mixes and all the related problems with them and consistency.

SUCCESS STORIES

DO YOU HAVE AN SUCCESS STORIES?

- The slow evolution of a private club and developments of programs to enhance playing conditions with a limited budget.
- I live 45 seconds from work and could fish from my back yard or beside the 5th green, if I knew how to fish.
- Involvement in the Audubon program combined with a co-op program has enhanced my routines at the club.

INNOVATIVE CULTURAL PRACTICES

WHAT TYPE OF INNOVATIVE CULTURAL PRACTICES HAVE YOU PERFORMED?

- Keeping staff aware of what problems may develop at any time i.e. disease, insect damage.
- Reduced use of irrigation and the turf grass performance and ability to recover.
- Communication with members, via power point, in developing thresholds for damage.
- Monitoring the growth of all areas and adjusting practices to enhance the player's enjoyment of their course.

Irrigation scheduling principles – tools for dry times

by Dr. Ken Carey, Research Associate
Guelph Turfgrass Institute and Environmental Research Centre

Background

Climate change seems to be a fact of life. Whether or not it is due to global warming, parts of the world including Ontario, have just come through two very warm, dry years, with little likelihood of significant change in the near future. With the pressures of urbanization and demand on water in general, golf courses share with society in general a prospect of a drier future. Keys to survival will include optimizing your irrigation decisions, and keeping careful records of when, why, and how much irrigation water you are using. Whether you use a state-of-the-art computer assisted irrigation system on a top end course or back-of-the-envelope calculations on a backyard green, a few basic principles of irrigation scheduling will give you a good grounding to help you develop and implement a successful water use plan.

Water and turfgrass function

Turfgrasses are irrigated during the summer in cool-season regions for a number of reasons, some having to do with the health and biology of the turf, and some with the function of the turf. The grass

plants need water for most of their active metabolism and growth, taking up nutrients in solution from the soil and transpiring water in the course of photosynthesis. Turf managers need grass which is not dormant, tolerant to stresses such as traffic, and actively growing to maintain a playable surface and recover from injury, all of which requires water. Water is also important in the proper function of most management material such as fertilizers and pesticides.

Irrigation decision-making

In practice, the decision to irrigate will take into account all of the reasons why turf needs water. The basic requirement will be to replace the water used by the plant and lost to the atmosphere in the course of its metabolism, referred to as evapotranspiration or ET. At the same time, the soil reservoir of water can be replenished so that water is maintained "in the bank". Turf which is stressed or recovering from damage may need extra irrigation. Syringing to control high temperatures or remove leaf wetness is an additional use of irrigation. Many management chemicals also need to be watered in.

Input data and decision tools

The turf manager has a number of important sources of information to assist in irrigation scheduling. The better and more complete the information at your fingertips, the more successful your irrigation program will be. The first category is information about the water requirements for the different turf species being managed (creeping bentgrass vs annual bluegrass vs Kentucky bluegrass vs fine fescues, etc.) as well as the effects of management regimes (fertility, height of cut) and season. This is probably the most difficult information to come up with precise values for, although rough estimates in mm of water per day are available for different species, and they can be corrected, again very roughly, for management and season.

The second category is weather information, including insolation (sunlight), temperature, wind, relative humidity, and precipitation. Records of past weather, current conditions, and forecasts are all important in an irrigation program.

The third category of information is vital – records of your irrigation system. This

continued on page 13

2000 Survey for Anthracnose Crown and Root Rot

1. Category: golf course _____, lawn care _____, parks _____, sod farm _____
other (please specify) _____
2. City or County and Province _____
3. Is this your first outbreak of anthracnose crown & root rot? _____
4. What time of year did the anthracnose rot first appear? _____
5. What species or cultivars of turfgrass are affected? _____
6. In the area affected, what type of annual treatments do you make with any fungicide (type of fungicide and number of uses per year e.g. Daconil X 5)
- 7.

type of fungicide	# applications per year	type of fungicide	# applications per year

8. Have any of these treatments been successful to any extent?

(indicate which ones with a "+" in the table above)
9. Have you had a previous outbreak of summer anthracnose blight on annual bluegrass? _____
10. What soil fertility or mowing heights are associated with affected areas?

Please return the survey to Dr. Tom Hsiang, Dept. Environmental Biology, University of Guelph, Guelph, Ontario, N1G 2W1, tel: 519-824-4120 ext. 2753. If you have a sample of diseased turfgrass, you can courier it to the same address, and we will let you know whether it is anthracnose or not.



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| • Exec-aire | • State Farm |
| • Fibra Can | • Teklogix |
| • Imperial Oil | • Travelodge |
| • John Brooks Co. | • World Foods |
| • Kriska Transport | • Zenon Environmental |

includes not only how much water has been applied (preferably in terms of mm or inches rather than minutes) and when, but also an idea of how evenly your system delivers water to the turf.

The fourth category is one which is sometimes overlooked, but which is particularly important if you are scheduling irrigation on a water budget system. This is good information about the rootzones that your turf is growing in. Soil texture, organic matter content, soil and root system depth, soil hydraulics and drainage will all affect how much water is available

to the turf and how quickly a water deficit may develop.

The final special category of information is all the little peculiarities of your turf which lead to the need for "custom" irrigation. If localized dry spots or hydrophobic areas have developed due to underwatering or wet areas are present due to a spring or seep, you will need to fine tune your irrigation program to compensate.

Irrigation scheduling approaches

There are two approaches which are commonly taken to irrigation scheduling, which have some similarities and some important differences.

Water deficit scheduling.

As the name suggests, this approach to irrigation primarily aims to deal with the deficit that turfgrass water use has produced, that is to replace the ET losses that have

occurred. It relies heavily on estimates of the water use of the turf (mm/day) corrected for management, weather, time of year, etc. There are a number of very sophisticated computer models of ET which are used by some computer assisted irrigation systems, and which integrate weather data with irrigation records to schedule applications to replace ET losses. Because this type of scheduling doesn't directly factor in the reservoir of water in the soil, it may lead to a tendency to overwater.

Water budget scheduling.

This approach to irrigation scheduling is similar to water deficit systems in that the estimation of ET losses is calculated in the same way. In addition, however, the soil water is measured or estimated, and the aim of the irrigation schedule in this type of system is not to replace ET losses directly, but to keep the soil water at an appropriate level. Essentially the soil water is treated as a bank balance, with withdrawals (turf water use, evaporation, drainage) and deposits (irrigation, precipitation) recorded and irrigation applied to keep an appropriate balance at all times in the soil. Understanding the characteristics of the soil is critical to this approach. Figure 1 shows the relationship between soil water status and plant activity (ET) for two soil types. Regardless of the soil, there is a water content level (saturation) when all the soil pores are full of water. At this point, the roots are shut down due to lack of oxygen, and eventually the plant will die. A normal soil will drain water until only capillary pores retain water, at which point the soil is at field capacity. Field capacity varies widely from soil to soil. Plant activity and water use is high and fairly uniform at water levels from field capacity down to the point at which the water that

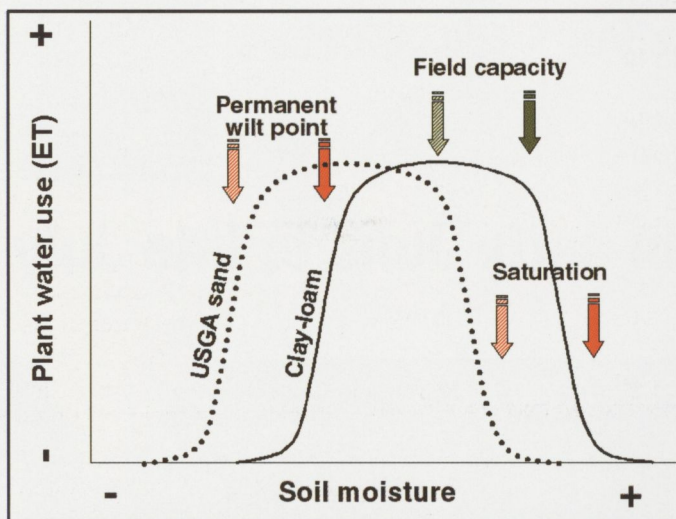


Figure 1. Relation between soil moisture and plant water use for two typical soils.

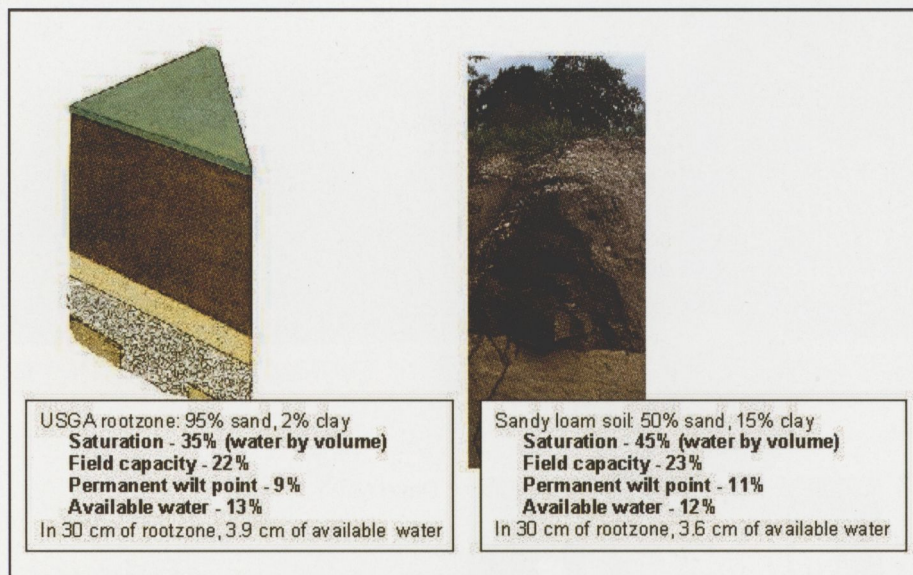


Figure 2. Typical water balance features of two turf rootzones.

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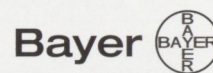


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remains in the soil is too tightly bound to be available to the roots (permanent wilting point). The wilting point also varies widely from soil to soil – below the wilting point the plant will begin to shut down and, unless water is added, will eventually enter dormancy or die. The trick to water budget scheduling is to be able to determine where the turf is on the scale between field capacity and wilting point, and at what point to irrigate back up to field capacity. Figure 2 shows two typical turf rootzones and their characteristics in terms of water content at critical points.

We have been doing some research into water budget scheduling at the GTI. The typical budgeting is a day to day process as illustrated in Figure 3. ET is estimated by a simple model from weather data, and rainfall and irrigation inputs are recorded. The first experiments set the threshold

to irrigate when soil water fell halfway between wilting point and field capacity. The budgeting approach was applied to several types of turf (creeping bentgrass greens, Kentucky bluegrass sports turf) on different rootzones.

A few interesting points have emerged:

- ◆ Water budget irrigation can significantly decrease the amount of water used to maintain some types of turf (by as much as 25% in Kentucky bluegrass sports turf in our simple experiment).
- ◆ We still need to improve our ability to identify the permanent wilting point, especially for lower maintenance turf – the bluegrass continued to grow without drought stress and the soil retained moisture long after the model predicted.
- ◆ Water budget irrigation needs to be used with care on sand rootzones (bentgrass greens).

Typical water budget calculations

Soil water day 0	15 mm
Deposits	
Irrigation	0
Rainfall	6 mm
Withdrawals	
ET	8 mm
Drainage	0
Runoff	0
Balance day 1	13 mm
Irrigation to field capacity (30 mm) will require 17 mm of water	

Figure 3

Because there is a tendency to underwater, the rootzone dries down more between irrigation cycles and localized dry spot may develop or worsen.

This research is ongoing. The future definitely holds a prospect of ever more careful use of irrigation water. The key to successful and responsible irrigation will be complete data and records about the components of the system (soil, turf, weather, irrigation) and an understanding of the principles of irrigation scheduling.

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O.G.S.A. pro/superintendent event weathers the storm

Jason Honeyball, Course Superintendent along with Shayne Dysart, Director of Golf & Head Professional were more than ready to host the annual Professional/Superintendent Golf Tournament at King Valley Golf Club. Although the course was wet and traps were battered from a record rainfall, King Valley presented itself as the tough demanding course, which has earned a high ranking across Canada. The course had drained incredibly well for the three plus inches of rain it received. There was a lift clean and place rule in effect for the day which made the contestants happy, but it certainly was not necessary. Greens seemed unaffected by the rain, rolling very firm and well over ten feet. For many who had not played the course in years, we all looked forward to the challenge. Unfortunately for others, the severe rainstorm, four days prior to the tournament, had some Superintendents still mopping up their home golf courses. Even with the cancellations,

117 players took on King Valley under fair skies with a little rain mixed in.

The top team of the day ended up being a tie between the Mad River team of Ray Richards and Brian French, and the Lambton team of Tom Murphy and Dudley Jones. Both shot a low score of 67, but through retro scoring Mad River came out on top. Low scoring Superintendent for the day was young Jason Ireton from Conestoga Golf Club, while low Professional was Dudley Jones, from Lambton Golf Club.

Special thanks again to all the participants, and to the staff at King Valley for their wonderful hospitality and an outstanding golf course.

A special note to Thom Charters and Warren Crosbie from Bayview Golf Club for starting the O.G.S.A. Golf Club Drive for Junior Golf. They Graciously dropped off a number of clubs at the Pro/Super event. Thank-you for your contribution, and we hope others will follow your lead.

THE WINNERS CIRCLE

First Place Team

Brian French and Ray Richards 67

Second Place Team

Dudley Jones and Tom Murphy 67

Third Place Team

Craig Sydorenko and Richard Butler 69

Low Gross Professional

Dudley Jones

Closest to the Pin Professional

Dudley Jones

Longest Drive Professional

Fraser McIntyre

Closest to the Pin Superintendent

Neil Acton

Longest Drive Superintendent

Jason Ireton

Low Gross Superintendent

Jason Ireton

Low Net Superintendent

Bill Fach



Shayne Dysart, Director of Golf & Head Professional at King Valley Golf Club, accepting plaque from Dean Baker.



First Place Team, Ray Richards and Brian French from Mad River Golf Club. Presentation made by Dean Baker.



Jason Honeyball, King Valley Golf Club Superintendent, and Dean Baker teaming up to take on the day... and their Pro's.



King Valley Golf Club is ranked as one of the best courses in Canada by Score Magazine.



Thank you, to Shayne and Jason for a well organized....well run tournament.

The referee

by Bob Leggitt
Rules Chairman, O.G.A.



Hi: My name is Bob Leggitt and I am the Rules Chairman for the OGA. I have served the OGA as a Rules person since 1984 before

being asked to serve as Chairman in 1999. Previous to this I had served on the Board of Directors at Kawartha Golf & Country Club since 1968. I have been asked to write these articles for the magazine, Green is Beautiful and I consider it an honour to do so.

Teeing Ground

The "Teeing Ground" is the starting place for the hole to be played. It is a rectangular area two club-lengths in depth, the front and the sides of which are defined by the outside limits of the tee-markers. Normally, for tournaments the width of the tee-markers is about 6-7 paces. A ball is outside the teeing ground when all of it lies outside the teeing ground.

Since a player is allowed to place his ball anywhere in the teeing ground any trees and bushes surrounding the tee should be trimmed back enough to allow the player to be able to swing without interference by any thing growing in this surrounding area. Otherwise a

player might be tempted to break off branches which he is not allowed to do under the Rules.

Teeing the Ball.

The ball may be placed on the ground, on any irregularity of surface created by the player on the ground or on a tee, sand or other substance in order to raise it off the ground. Most modern players use a wooden tee.

Tee Markers.

Before a player plays his first stroke with any ball from the **teeing ground**, the tee-markers are deemed to be fixed. If the player moves, or allows to be moved, a tee-marker to avoid interference with his stance, the area of his intended swing or his line of play, he shall incur a two stroke penalty in stroke play or a loss of hole penalty in match play.

What happens if the tee markers are moved after the player has played his first stroke?

After the first stroke is played the markers are obstructions and if moveable may be moved.

Examples:

1. A player moves a tee-marker before or after playing a stroke from the teeing ground because, in his view, the markers are too close together, too far back, aimed incorrectly, or other similar reason.

Penalty: **Disqualification**, unless the marker is replaced before the player or any other player from the teeing ground, in which case the penalty is two strokes in stroke play or loss of hole in match play. It is the responsibility of the Committee during a tourna-

ment or the Green staff

during play to make sure that the markers are properly set. As pointed out, the penalty is serious.

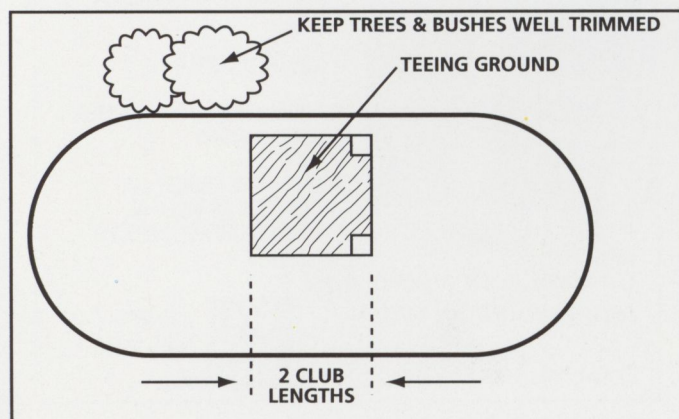
2. A player moves a marker before or after playing a stroke from the teeing ground as a result of falling over the marker, while possibly admiring a good shot. No penalty, and the marker should be replaced.
3. A player moves a tee-marker before or after playing a stroke from the teeing ground as a result of kicking it or striking it with a club, maybe showing a bit of frustration over a poor shot. No penalty and the marker should be replaced.
4. A player lifts a marker before or after playing a stroke for no apparent reason and without authority under the Rules. This could be caused by a complete loss of control over many bad shots. No penalty and the tee-marker should be replaced.

Ball Falling Off the Tee – If a ball, falls off a tee or is knocked off a tee by the player in addressing it, it may be re-teed without penalty but if a stroke is made at the ball in these circumstances whether the ball is moving or not, the stroke counts but, no penalty is incurred.

Playing from outside the teeing ground

Stroke Play – If a player tees off from outside the teeing ground he incurs a penalty of two strokes and must replay from within the teeing ground. If he fails to do so before teeing off the next hole or leaving the last green before declaring his intention to correct his mistake, the player is disqualified.

Match Play – If a player plays from outside the teeing ground, the opponent may **immediately** require the player to cancel the stroke and play a ball from within the teeing ground, without penalty.



**GUELPH TURFGRASS INSTITUTE &
ENVIRONMENTAL RESEARCH CENTRE**

2000 Research Field Day

**Tuesday, August 22, 2000
8:30 a.m.**

Information: (519) 767-5009
info@gti.uoguelph.ca
http://gti.uoguelph.ca

The annual research field day provides an opportunity to see the latest research on turfgrass varieties, pest control techniques, fertilization, turf management, environmental management and effective water use. It also provides a chance to see some of the other research activities on the site including the Canadian Toxicology Centre and landscape studies. In addition to viewing the research work, participants can also take part in outdoor, hands-on turf and landscape management workshops and enjoy a delicious barbeque lunch. Special discounts are available for early registration and groups of two or more people from the same organization. For further information about the field day, call (519) 767-5009, e-mail: info@gti.uoguelph.ca or visit the GTI website at gti.uoguelph.ca. The field day is jointly sponsored by the Ontario Turfgrass Research Foundation, the Ontario Ministry of Agriculture, Food & Rural Affairs and the University of Guelph.

Rob Witherspoon, Director
Guelph Turfgrass Institute & Environmental Research Centre
University of Guelph, Guelph, Ontario Canada
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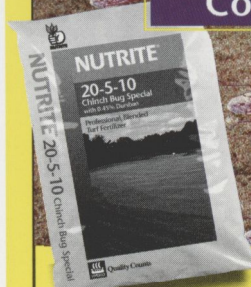
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Survey for anthracnose leaf blight and basal rot of creeping bentgrass

by Drs. Tom Hsiang and Paul Goodwin
Department of Environmental Biology
University of Guelph, Guelph, Ontario, N1G 2W1

Anthracnose basal rot is increasing in prevalence. Five years ago, it was virtually unknown, but in the past three years, turf managers, especially in Ontario, have been confronted with increasing incidences of a dieback due to a basal rot that has been very difficult to manage. Despite intensive use of fungicides, the grass often does not recover properly. Even in the U.S., there has been very limited research conducted on anthracnose basal rot disease. Many recommendations made for its control come from our experience with anthracnose foliar blight which seems to have major differences in development from anthracnose basal rot. Anthracnose foliar blight also seems to be increasing in incidence in certain parts of Canada. Perhaps it is global warming that gives us warmer summer temperatures and greater summer precipitation in certain areas, but these two factors can contribute to more anthracnose disease.

In 1999, we received funding from the Ontario Turfgrass Research Foundation to survey anthracnose basal rot. We sent out bulletins on the disease and survey forms to the OGSA publication, "Green is Beautiful", and the CGSA publication, "GreenMaster". We obtained over 25 samples of diseased

turf. From these, we recovered 17 isolates of *Colletotrichum graminicola*, the cause of anthracnose blight and anthracnose basal rot on turfgrasses. All diseased specimens of *Poa* species including *P. annua* (annual bluegrass), *P. pratensis* (Kentucky bluegrass), and *P. sabina* were associated with anthracnose foliar blight symptoms, while specimens from *Agrostis palustris* (creeping bentgrass) all showed basal rot symptoms.

For all these isolates plus one from Pennsylvania, we sequenced the internal transcribed spacer of the ribosomal DNA gene cassette. Along with sequences already published on the Internet for *Colletotrichum* species, we constructed dendrograms to explore the relationships between these isolates. What we found was the isolates of *C. graminicola* from *Poa* species all clustered together and separately from those off creeping bentgrass. In addition, we tested the sensitivity of these isolates to the fungicides iprodione (Rovral) and benomyl (Tersan). We found that isolates from creeping bentgrass showed less sensitivity to the fungicides benomyl and iprodione than isolates from *Poa* spp. This also supports the idea the

isolates from *Poa* spp. are distinct from those off creeping bentgrass.

We applied for funding to the Ontario Turfgrass Research Foundation again this year, and we were successful in obtaining renewed funding for 2000 to 2001. We propose to repeat the survey for another season to gather more isolates, and also conduct the inoculation tests and examine the mode of penetration by these isolates. Ultimately, we hope to be able to provide turf managers with better information on conditions predisposing turf plants to disease, and provide management options.

Please help us out by completing the survey enclosed with *Green Is Beautiful* (a copy is on the web at <http://www.uoguelph.ca/~thsiang/turf/survey99/survey00.htm>). For more information on anthracnose basal rot including images, please see <http://www.uoguelph.ca/~thsiang/turf/survey99/basalrot.htm>. If you have a sample of diseased turfgrass, you can courier it to the address below, and we will let you know whether it is anthracnose. Send samples and survey results to: Dr. Tom Hsiang, Dept. Environmental Biology, University of Guelph, Guelph, Ontario, N1G 2W1. tel: 519-824-4120x2753, fax: 519-837-0442, email: thsiang@uoguelph.ca. Thank you.

LAST CALL

Jim Wyllie, Chairman
Greenkeeping History Editorial Committee

Last request for help from all members. Biographical information about Ontario Golf Course Superintendents is needed to complete our 75th commemorative publication.

I am asking all superintendents, if they have not already sent their biography to Dorothy at the OGSA, to please do so now! Also would you, if you can remember the names and a little history of superintendents who were involved as members and are not now, please send it in to Dorothy.

The 75th book is going to be spectacular and will be displayed in many prominent places related to golf. If you want your name to be included with the elite of Ontario Greenkeepers send in anything you have NOW. There will be no more reminders as we are going to print soon.

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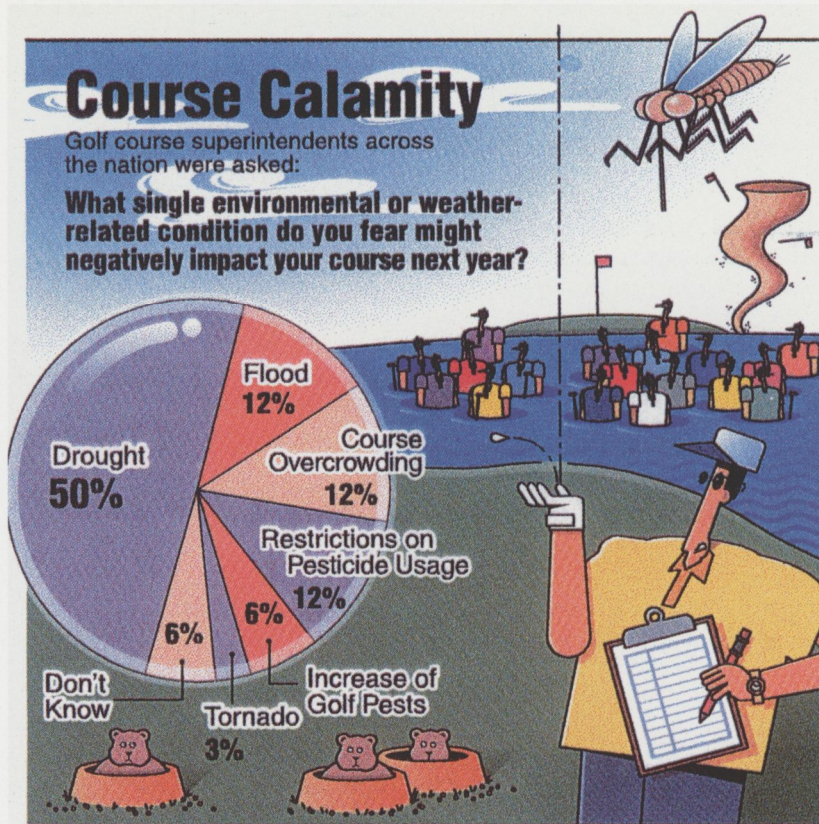
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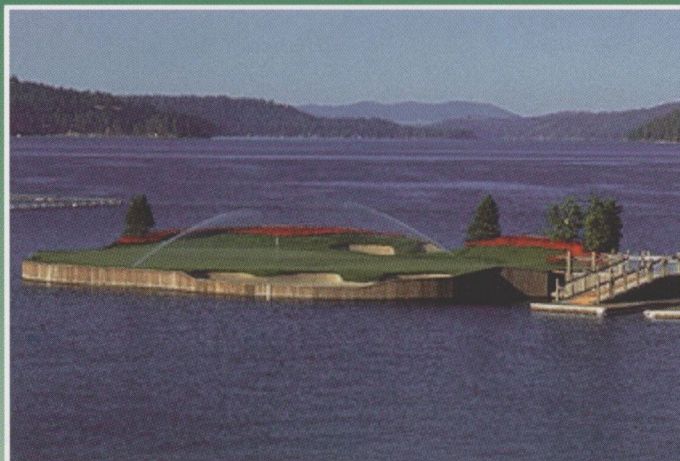
HOW DID YOU WEATHER THE STORM?

Torrential Rains and high winds of May 12th & 13th left horrendous destruction in its wake. August issue of *Green Is Beautiful* will feature stories and photos from golf courses affected by the storms. We would appreciate any information you can contribute to this article. Even a paragraph or two would help to make this an informative and worthwhile article. Perhaps you have a funny story or a preventative tip, you would like to share with your colleagues. Please send your articles and photos to the OGSA office by June 30/2000.



Source: GCSAA's 2000 Golf Leadership Survey

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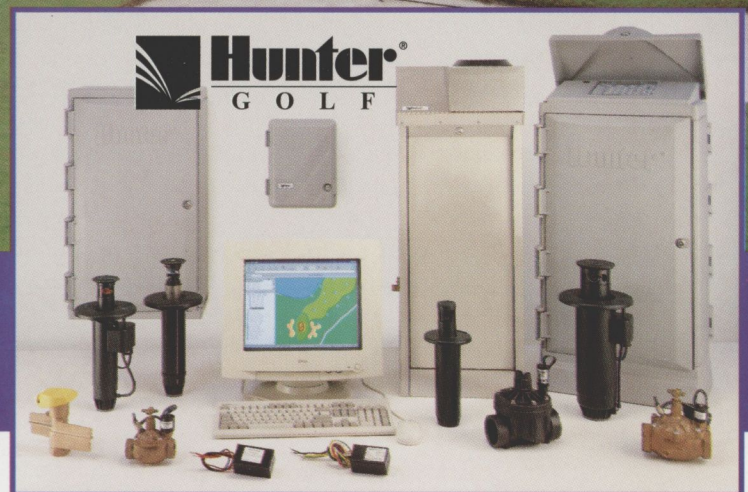
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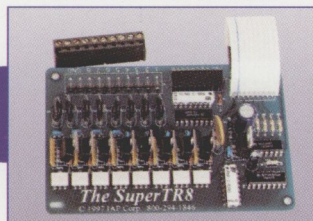
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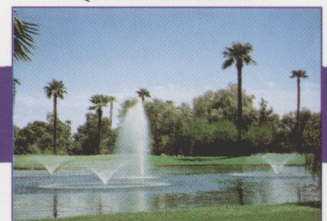

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Turf or consequences

Retirement

by Doug Breen, Superintendent
Calerin Golf Club

I was just watching T.V. and one of those "Freedom 55" ads came on, and it got me to thinking about retirement. To be honest, it's something I haven't thought much about lately, but at one point, it was my only career goal.

My original plan was to marry into money and become a kept man, but since I didn't have much in the way of bait, I had to basically pair up with the only person who could stand to look at me and live with my relatively bizarre habits, not to mention that most women aren't willing to do full financial disclosure on the first date.

My second plan was what I call the "Blitzkies Career Path". Work like an idiot for twenty years and play golf from age forty on. I figured that, at worst, by forty-five I'd have a glider, a tropical home, and be riding horses on the beach; which according to the commercials, are the three most accurate measures of a successful retirement. Instead, however, I became a superintendent, which although rewarding, isn't likely to make me financially stable by 40; although, I do get to work like an idiot.

My wife Krista, has a great retirement plan... me. She's working on the "Freedom 35 Plan". As soon as we got married, she insured me to the hilt and is now gradually killing me off by allowing me to do whatever I want. Believe me, the plan is sound. After a few years of late nights, early mornings,

and a vegetable free, deep fried diet, consisting primarily of the finest chicken Kentucky ever produced, she ought to be free of me by the time she's 35, riding horses down the beach in Aruba with the kids on their way to glider flying lessons.

So, I've basically given up on the idea of ever not working, and apparently, so have lots of other people. I have two guys over seventy years old, cutting for me, right now, and more and more of our crews are made up of people who took a buyout from one union or another, but still need to work. The upside for me is that someone who used to run a crew of 13 at a factory somewhere, is less likely to be absent or hung over on a Sunday of a long weekend, than the average university student.

The discouraging part; though, is that a sixty year old whose house is paid for and has a pension bigger than my salary, still needs to haul his retired butt out of bed and cut fairways for me three times a week.

Anyhow, the commercials are over and my



show is back on so I'd better go. I hate to miss a second of Baywatch, because sometimes you don't catch a subtle plot twist and you spend the rest of the show trying to figure out what's going on. I wonder what kind of retirement plan lifeguards, or V.I.P. bodyguards, or relic hunters have?

Oh well, back to T.V. and my bucket of chicken, so that at least my wife can have a chance to retire in the Carribean. "What's that, Krista? Sure, I'll have extra gravy on my fries, and don't forget the salt!"

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Looking back

Twenty years ago today

by Barry Endicott,
Nobleton Lakes Golf Club

The Board of Directors of the OGSA in 1980 was as follows: **Paul White** (president), **Ken Nelson** (vice president), **Doug Hoskins** (secretary), **John Smith** (treasurer), **Stu Mills** (past president), **Dan Ardley**, **Bob Brewster**, **Al Draper**, **Shorty Jenkins**, **Blake McMaster**, **David Moote** and **Rusty Warkman**. **Bob Brewster** was editor and **Blake McMaster** was co-editor of "Green is Beautiful".

There was a March meeting held at Scarborough Golf and Curling Club for the Annual Curling Day. **Bob Moote's** rink beat **Bill Bowen's** rink and won the R.F.M. Trophy. The business section of the meeting, lead by host **Dave Moote**, involved a salary and benefit discussion with **Stuart Mills**, **Dan Ardley** and **Gordon Witteveen** also giving us a breakdown of the wages and benefits paid to their employees.

The first golf meeting was held on May 5th at Roseland Golf and Country Club, Windsor, hosted by **Bud Hooper**. **Dr. Joe Vargas** paid a post dinner visit, speaking on the theories about "Maintaining Turf, Not Grass". The Galt Field Day was held on June 12th at Galt with a visit to the University of Guelph Turf Plots. **Dr. Tom Fisher** was the guest speaker. Low gross superintendent was **Bruce Vollett** 74, low net super was **Whitey Jones** 64. Low assistant gross was **Bruce Burger** 72 and low guest gross was **Rod Hermitage**.

The President, Green chairman and Superintendent Tournament was held Friday, July 25th at the Summit Golf Club hosted by **Doug Hoskins**. The team from Richmond Hill Golf Club of **Peter Barnett** scored 109 points for first place. **Hugh Kirkpatrick** of Westmount had the low gross round for the day shooting 72. **Andy Bertoni** was guest speaker. On August 12th a meeting was held at Westview hosted by **Keith Nesbit**. Low gross scores were **Bill Bowen** and **Hugh Kirkpatrick** with 79 and low net winners were **Bill Hynd** and **Neil Acton**, 70. A discussion was started on the rules of golf as **Keith** was the head of the rules of golf for OGA.

Ken Wright and **Ben Kern** won the Pro-Superintendent Tournament played at Lake St. George Golf Club in Orillia with a score of 153. Low super gross was **Dan Ardley** 78, low super net was **Brent McCaffery** 69, and low pro **Ben Kern** 67. The McClumpha Tournament was held at Dalewood Golf Club on September 29th hosted by **Dan Ardley**. Low gross superintendent was **Ken Wright** with 74 and low net was **Hugh Kirkpatrick** 70. A scramble golf day was held at Bayview Golf Club hosted by **Jim Wyllie**. The winning team was **Bob Heron**, **Shorty Jenkins** and **Dave Dick** with a score of 67. The Christmas Party was held at Lambton Golf and Country Club on November 15th.

A GCSSA fall seminar was scheduled in Toronto on Landscape I Design Theory for October 29th and 30th. Instructors were **William R. Nelson**, University of Illinois and **Mr. C.E. McNinch**, director of independent study, University of Guelph. The 1981 GCSAA International Turfgrass Conference and Show was held on January 25th to the 30th in Anaheim, California.

The first annual Turfgrass Research Foundation Invitational Golf Tournament was held on Friday August 1st at the National hosted by **Ken Wright** with the barbecue being held at the Board of Trade hosted by **Gord Witteveen**. The tournament raised \$2,800 for Turfgrass Research in Ontario. Low gross was **Bob Cherry** with an 84 and low net was **Kimmo Solonen**.

Tom Lewis ended a 55 year career when he went into semi-retirement after serving as head greenkeeper at Kawartha Golf and Country Club for the past 22 years. **Fred Curra** was hired to replace him. **Hugh Moulton** of Windsor Park Golf Club was killed in a car accident in September. A Regionalization Committee consisting of **Dan Ardley**, **Bob Brewster**, **Blake McMaster** and **Thom Charters** was established to study regionalization.

Did you know?

by Jeff Burgess
O.G.S.A. Membership Director

The GCSAA Online (www.gcsaa.org) has an excellent Career Development Section.

The following is a list of the type of information that can be accessed on this site:

- Superintendent Job Descriptions
- Sample Superintendent Contracts
- Staff Job Descriptions
- Interview Tips
- Sample Interview Questions
- Resume Tips
- Employment Trends
- Communication Tips

This information is readily available to those who have access to the internet. If you do not have the internet but would like some of this information, contact Dorothy Hills at 1-877-824-6472.

Employee Referral Service / Employer Kit:

In many cases, an employer is looking for some guidance to help them in their task of selecting the right Superintendent. An information booklet entitled "Selecting a Professional Superintendent" outlines the professional process of searching for and hiring a Superintendent.

This information is a service of the GCSAA and is a service that we are able to offer as an affiliated chapter. The booklet will be provided to Employers as a tool when they place an advertisement through the Employee Referral Service. It is intended to help them with their search and should prove to be beneficial for both the Employers as well as Superintendents.

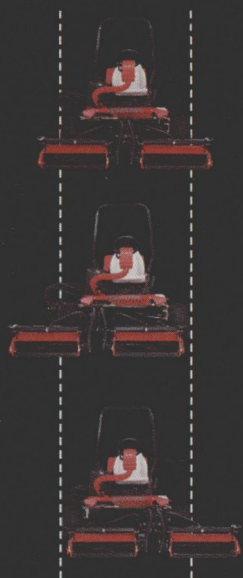


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