

May 2005

Green is Beautiful

The Official Publication of Ontario Golf Superintendents' Association

Golf Courses and the Greenbelt Plan

Algae In Your Pond

Golf in Dubai

U of G update

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COVER PICTURE

Carruthers Creek Golf Course

photo by Brent Long

The Greenbelt Plan encompasses numerous golf courses to protect significant natural features including wetlands.

*OGSA is committed to
serving its members,
advancing their profession,
and
enriching the quality
of golf
and its environment.*

President's message

Well spring is here and hopefully old man winter was kind to your golf course. Your directors have been working in preparation of events for this season. As always, we have some excellent venues for our golf events this year and we hope everyone will participate. The program for our conference is being finalized by Sean DeSilva, who is leading a great group of volunteers, devising this year's list of headline speakers. Providing affordable, attainable and accessible education is probably the most important attribute our association can help provide to our members. This is why we will offer a one day, pre conference seminar. It will include a full day seminar with a note worthy speaker, including coffee breaks and lunch, for the low fee of \$50.00. What a deal!

The Golf Management Show this year will be held at the Sheraton Centre from January 4 - 6, 2006. There are a number of scholarships as well as awards, such as the recently established, Distinguished Service Award recognizing lifetime achievement to our profession. Please apply for scholarships, where applicable, and consider nominating an innovator to follow Clayton Switzer for the Distinguished Service Award.

The most prestigious award that is given out annually is through our national association, the Canadian Golf Superintendents Association, for "Superintendent Of The Year". Traditionally it has not been well advertised who is being nominated from which provinces of the country but I think it is important for you to know who is representing Ontario. For the next two years, Mr. Rhod Trainor, of Hamilton Golf and Country Club, will be our candidate and I can not think of a more deserving one. We are delighted to have Rhod represent us, as he represents excellence in golf course management and professional leadership. Rhod has a long track record of being a dedicated volunteer, investing into the future of our profession, most notably Past President of our Association in 1992 and Chairman of the Ontario Turfgrass Symposium for seven years. His management skills and drive for perfection has elevated Hamilton Golf and Country Club to its rightful place as one of Canada's best. The golf course and grounds are the envy of many visiting Hamilton. Rhod is a great friend to many in our association; offering seasoned wisdom to colleagues at times of need and friendly humor to lighten any situation. We all hope C.G.S.A. recognizes such a worthy candidate.



by Paul Scenna
Donalda Club



ONTARIO GOLF SUPERINTENDENTS' ASSOCIATION

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Coming Soon **President's Day**

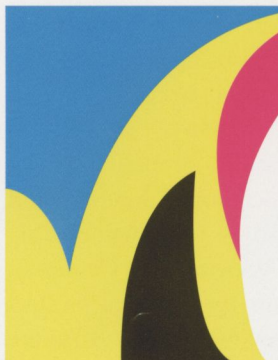
Monday, July 18, 2005
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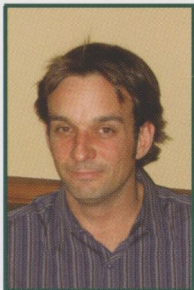
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Green is Beautiful 2005

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Editor's message



by John Bladon
Nu-Gro Corporation

Well, spring has indeed sprung! Never in April have I been on a golf course and seen unmowed greens beginning to show signs of localized dry spot...Unbelievable!

Our May issue is packed with some excellent submissions. Pam Charbonneau takes us through what is new in 2005 and gives us a little on Kocide, the much anticipated moss control product. Brian Haum, Assistant at Hamilton, takes us on a tour of the Emirates Golf Club in Dubai and Kevin Holmes of MBTW Design gives us some worthy info on "Golf Courses and the Greenbelt Plan". We also have a timely submission on ponds and algae by David Sim and an update from Dr.

Eric Lyons on activities at the University of Guelph. Finally, this issue's Member Profile is of longtime Sunningdale GC Superintendent, Tim Webb.

All of the authors have generously donated their time in penning the above submissions to make your magazine a little bit better. As you go about your season, think of what you may be able to share with your peers in the way of an article or photograph...we would appreciate it! With that, I wish each of you a great 2005 growing season and hope you can make time in your schedule for many of the worthy OGSA and regional events going on throughout the season.

"We make a living by what we get, but we make a life by what we give" - Norman MacEwen

What's new

Golf Tournaments & Events

Don't miss out on any of the OGSA events. Complete list of events and dates available on line, under menu heading "Calendar of Events". Get details and registration forms by going to the page for each event, shown in the menu under "Events". Registration forms are made available at least 4 weeks prior to the event.

Next Event is the Spring Field Day

Monday, June 20th
Hosted by Guelph Lakes Golf & Country Club
Registration forms available May 11th.

Growing the game of golf

The Play Golf Summit, presented by the National Allied Golf Association (NAGA), at the Fairmont Royal York Hotel in Toronto, February 23 and 24th, successfully drew over 190 golf industry leaders from coast to coast. This first-ever summit brought all segments of the golf industry to participate in a cooperative effort to strategize on methods and initiatives that focus on affecting the growth of golf in Canada. Stakeholders enthusiastically worked over the two-day summit to discuss and interpret golf and demographic trends and research, develop and set play golf strategies.

A detailed report will be released on the summit findings in the next issue of Golf Canada published by the RCGA, and is available on the web playgolf.org. One of the highlights of the summit was the consensus among all the

Heritage Award

\$2,000 available to the successful child or grandchild of an OGSA member, to further their education. Application forms are now available on line, in the "Members Only Section".

OGSA Merchandise

Support your association...flaunt the logo. We now have in stock glasses, golf hats, toques, collar and mock neck shirts in various colours and sizes. go to www.golfsupers.on.ca under "What's New" Merchandise to view selection and prices. If we do not have your size or colour in stock...we can order it.

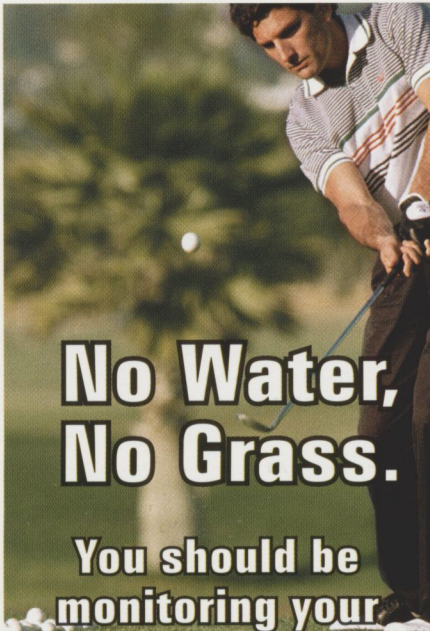
delegates that there was a need to move forward on a direction that will begin with the creation of a national funding and strategic plan to meet the NAGA objectives of "growing the game of golf". Additionally, it was recognized that this was a great opportunity to receive input from industry leaders on a wide range of golf topics and NAGA has committed to follow up on the input from the various stakeholders.

NAGA is a national golf organization comprised of the Canadian Golf Superintendents Association, Canadian Golf Industry Association, Canadian Ladies Golf Association, Canadian Professional Golfers Association, Canadian Society of Club Managers, Canadian Professional Golfers Tour, National Golf Course Owners Association and the Royal Canadian Golf Association.



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our newest members

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Brian McCann	Class D
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Ron Moore	Class A
North Bay Golf & CC	
Michael Mumford	Class F
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Rick Nash	Class A
Bear Creek Golf Club	
Justin Parsons	Class F
Markland Wood CC	
Jason Pickering	Class C
Heritage Heights G & CC	
James Quimby	Class F
Essex Golf & CC	
Ryan Smith	Class S
Cardinal Golf Club	
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Copper Creek Golf Club	
Pawel Torunski	Class F
Osprey Valley Resorts	
Brent Tremain	Class F
Westmount Golf & CC	
Brad Waekens	Class A
Rolyn Golf Trails	
Matthew Wentzell	Class C
Taboo Golf Course	
The Curb Man	Class E
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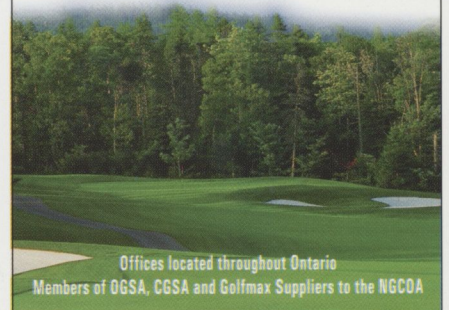
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University of Guelph Update

by Eric Lyons, Assistant Professor
Department of Plant Agriculture, University of Guelph

Today, as I sit and write this article, it is my seven-month anniversary of moving to Canada. I felt that it would be appropriate to share some of my experiences of my first half-year, here in Ontario and at the University of Guelph. I have gotten the chance to see some great golf courses, give a couple of talks, meet some great people and teach two classes at the university. While there have been times when I could barely remember my own name, much less the six people I just was introduced to, I never expected my first few months to be so challenging and yet rewarding at the same time.

Notes From the Classroom

One of the most rewarding aspects of my job has been working with the students in the Turf Diploma Program. While being demanding, it has proven to be a very insightful introduction to the problems facing the superintendent here in Ontario. I can also say, with some confidence, that the first class coming out of the new diploma program has some solid students who will someday become leaders in our industry.

As I write this, many of our first year students are exploring their internship options and by the time this comes to print, they should be arriving for their experiential learning. I encourage all of you to become involved with the internship program. One of the most important actions you can take for the game of golf is to aid in the education of future golf course superintendents. Making opportunities that are strongly rooted education yet financially achievable for interns is the greatest challenge. To those of you working with interns in the past, and this summer, I want to say thank you and to encourage you to make the learning experience as rewarding as possible. Involve your interns in the "How's and Why's" of every aspect of their work experience. Many of these students are highly motivated and have taken the first steps in advancing their careers. The experience you provide is intricate in the education of our future turf professionals.

Notes From the Lab

Well, thanks to the OGSA and the Ontario Turfgrass Research Foundation, I have been able to get started on my research activities. The first thing I want to do is mention my fellow team members in the lab. Ken Carey is still working with the extensive "Grant in Aid"

and service research program. He works closely with Erica Gunn, who doubles as the turf diagnostician at the GTI, to deliver that important service to the turf industry. As I learn more, I hope to have a more active role in that program, primarily as communicator of our findings to you, the people who can implement and use this information. In addition, we have a new senior technician in the department of plant agriculture who was moved onto our team from the canola-breeding program, Alex Porter. His main duties will be to work on the team with the new turf faculty member who is most likely to arrive in the fall of this year.

I have also taken on two young scientists who are currently seeking their masters at the University of Guelph: Darragh McGowan and Evan Elford. Darragh hails from Ireland and is working on a project for which the initial funding is being provided by the OGSA. His project is exploring the environmental and management factors that lead to moss invasion on golf greens. The first step of this research was a survey that many of you should have received. I encourage you to fill it out and return it, as many studies with this approach fall short due to a lack of response from the industry. To those of you who already have responded, Darragh and I extend our gratitude and I hope we all see the benefits of this in the near future. I encourage you to reply even if you have no problems with moss so that we can get a handle on both sides of the story. Darragh has a great deal of experience in both research and working in the golf industry and I am happy to have him on our team.

Evan Elford is working on the other project that I have begun, an attempt to reduce pesticide use through alternative management schemes. Evan is from Ontario and was interested in developing low input management for turfgrass areas. We have started on a project looking at overseeding perennial ryegrass into Kentucky bluegrass stands to prevent weed encroachment. The goal is to limit herbicide use in Kentucky bluegrass turf while maintaining turf function and quality. Initially, the study is emphasizing athletic field turf but my ultimate goal is to use the information to help provide effective management plans for home lawns and golf course roughs and surrounds, which is often the majority of the land area of our golf courses.



photo by Erica Gunn, Research Associate
Guelph Turfgrass Institute

I am really looking forward to the future. It is great to experience a real winter again. When I embarked on my career as a plant physiologist I wanted to study winter hardiness and the physiological mechanisms for survival in the winter and the spring green up period. I know that I will have that opportunity here, as I looked out over the ice-covered pond that once was a research green! I am looking forward to the coming research season and meeting many of you. I encourage you to become involved in the moss research project and encourage you to fill out that survey and get it back to Darragh or myself.

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From roots to shoots

Whats new for 2005?



by Pam Charbonneau
OMAF Turfgrass
Specialist

Moss

Some of you may have read about a possible new product for moss control or heard my talk at the Ontario Turfgrass Symposium in February, 2005. We have been doing trials on the efficacy of Kocide 2000 (a copper hydroxide based product) for silvery thread moss control on golf greens. I had mentioned that a minor use label expansion had been submitted to the Pest Management Regulatory Agency for this product with hopes of a registration in the near future. Kocide 2000 is eligible for a minor use label expansion because it is currently registered in Canada as a fungicide/bactericide for tomatoes and peppers. Most of the moss control efficacy trials were conducted in British Columbia and they were conducted using two earlier formulations of copper hydroxide, namely, Kocide 101 and Kocide DF. The PMRA is requiring that all the moss data for the minor use label expansion needs to be generated using the most recent formulation, Kocide 2000. They are also requiring two years of data at multiple locations throughout Canada. We do have one years' data on Kocide 2000 at a couple of locations. This summer there is a plan to do two trials in B.C. and two in Ontario. If silvery thread moss is deemed to be a problem in Atlantic Canada, there will be a need to have two trials there as well. This, along with previous studies, should provide sufficient data so that the URMULE can be re-submitted in winter 2006. This does delay the possible registration of Kocide 2000 by at least a year.

While on the subject of moss, don't forget to fill out the moss survey at the GTI web site at www.uoguelph.ca/GTI. This is part of Darragh McGowan's Master's thesis research. He is working under the supervision of Dr. Eric Lyons. Darragh is interested in learning more about the ecology of silvery thread moss on golf greens in Ontario. He hopes that what he learns can help superintendents manage turf to discourage moss encroachment.

Update on some pests

We are starting to have a better handle now on how well the leatherjackets overwintered last year. As many of you know, the leatherjackets were very small going into the winter months and they were also small coming into the spring. We were able to observe them as early as March 9, 2005 on the mounds surrounding the greens here at the GTI. On the top of the mounds, the 3 cm ice layer had melted at that time and the leatherjackets were visible at the surface of the mud in between the grass. The nice thing about leatherjackets is that you can let the starling direct you to where they are. I observed some starlings feeding on those spots earlier that day and decided to see what they might be feeding on. Sure enough they were feeding on leatherjackets. They were probably on average 0.5 cm in length at that point. This is about half the length that they were in mid-Nov. 1999 where we collected samples every two weeks during the year

and weighted and measured them.

On the leatherjacket topic, there is a second species of crane fly that has been found in British Columbia and in New York State. The scientific name of this new crane fly is *Tipula oleracea*. We would like to know if it is in Ontario. The difference between it and the European crane fly (*Tipula paludosa*) is the life cycle. *Tipula oleracea* adults are present in April or May and *Tipula paludosa* adults are present in September. If you happen to find any crane fly adults flying this spring, it would be helpful if you either let me know and I could come out and collect some or you could collect some and send them to me. If you are able to collect some, place them in a glass jar and put them in the freezer overnight. You can courier them to me at: Pam Charbonneau, The Guelph Turfgrass Institute, 328 Victoria Rd. S., Guelph, ON, N1H 6H8. Alternatively, you can telephone me and I will come out and collect samples. I can be reached at (519) 824-4120 x 52597 or you can email me at pamela.charbonneau@omaf.gov.on.ca. Your help on this would be greatly appreciated.

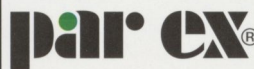
Revised OMAF Publication 384

A new revised OMAF Publication 384 is now available. It contains all of the latest turf pesticide recommendations. In addition, there is a new chapter on Water Management. This chapter includes a summary of legislation and regulation considerations, information on irrigation scheduling and amount, water quality and water conservation. It is available through the Agricultural Information Contact Centre at (877)424-1300. You can also get information on purchasing it from the OMAF web site at www.gov.on.ca/omaf. It is part of the study package for both the golf and lawn care IPM accreditation exam and can be purchased for \$20.

In addition, the Turf Agriphone has been up and running now since April 8th, 2005. You can access this weekly update by phoning 1-888-290-4441 or you can go to the OMAF web site at <http://www.omafra.gov.on.ca/scripts/english/crops/agriphone/index.asp#Turfgrass>. Another information source that you may be interested in is the GTI Advisor. It is posted on the GTI web site every two weeks at www.uoguelph.ca/GTI.



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Health & safety

Orientation

by Doug Johnson, Principal Consultant
SAFETAID and Health and Safety Consulting
First Aid and Safety Supplies and WHMIS Training

Welcome back to the Health and Safety Article!! I am carrying on from my theme from the last publication. I talked about setting standards and enforcing standards. Have you ever thought about how well you have communicated the standards during orientation?

One of the issues that a lot of workplaces have is that they do not have a clear and measurable way to communicate standards to their workforce. I often talk to employers and supervisors about their standards and I ask them how they have gone about communicating these standards to their staff. The response is generally, "I tell them how to do the job and I expect it to be done that way". Or, I hear, "I hire people with experience so they should know how to do the job". Well this just doesn't cut it anymore.

One of the things that the Ontario Ministry of Labour is looking for these days is documentation on what you have told a worker and an indication from that worker that they have in fact been given the information. "How do you do that?"

It is very simple. You must write down your rules. You must have a document that allows you and your workforce to sign off. If you are a supervisor and you are providing instruction to one or more workers it is your job to ensure that you have a written list of the issues that you are

discussing and then you can do one of two things. You can have the worker sign off beside each item where you have provided instruction, or you can have each worker "sign in" to the "information" or "training" session. When a worker "signs off" or "signs in" it is imperative that you make it clear to the worker that this is a process that you are using to ensure that there is a record of the worker receiving the instruction. By doing this you are protecting the club, your manager, yourself and the worker.

As you recall from my last article, I wrote, "It is important to understand, that to ensure that you have safe workers, you must have clearly defined safety rules and they must be clearly communicated and enforced". When you are providing orientation to staff it is imperative that all workers receive all the information. If you write down what you want to tell everyone you will find that the process of information delivery becomes a great deal easier. You now have a document that you can use as a guide and you will be able to provide the worker with written documentation. This will make your job so much easier. Just think you won't have to continually be rethinking what you want to say and your workers will have a document that they can review at a later time. You reduce your work, you increase the ability of the workers to assimilate the information and you have a document that you can use to "prove" to the authorities that you have provided a clear, consistent and equitable orientation to your workers.

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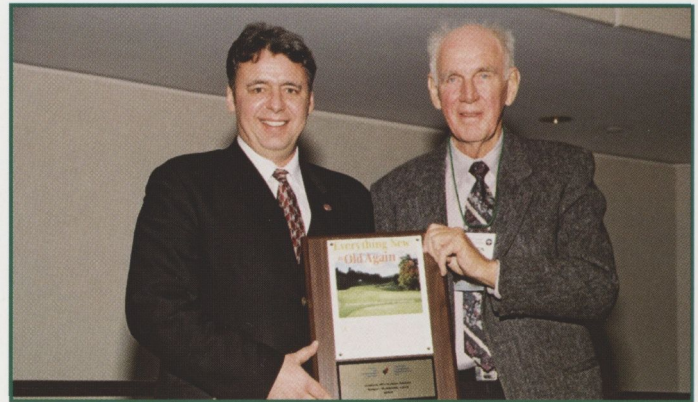


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Canadian Golf Superintendents Association news

At the GCSA awards luncheon held during the joint conference, Bob Burrows, CGCS (pictured left) received the *Gordon Witteveen Article Of The Year Award* from Gord for Bob's April, 2004 article in Green Master magazine.



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Algae in your pond *when greener isn't better*

by David Sim

We've all seen it, on television, magazine covers, and web sites. In fact, whenever a golf course is advertised or shown, we see the signature hole. It is the place where the designer showcases their vision and talent, the place where we see the very best the course has to offer. And what most often accompanies the perfectly manicured green in that picture? Water. It is the standard of our industry. Sometimes a river, occasionally a lake, but usually that water in the picture is a sparkling, clear pond. The pictures are all fine and well but the reality is often very different.

Many gold course ponds are plagued with algae, and algae can be a problem. It can transform that sparkling, clear, inviting pond into a stagnant, foul smelling, unsightly mess. For some superintendents the negative visual impact of algae is a problem, but not one that is high on their priority list. That pond however, is worth a second look because those algae can have some other serious side effects.

What are algae?

Algae are simple plants, which contain chlorophyll for photosynthesis. They have no roots, stems, or leaves and are found in almost every fresh and marine environment in the world. Algae have been found in near boiling volcanic pools and growing on the underside of the polar icecaps. In modest numbers, most algae are harmless. In fact they are an essential part of a healthy ecosystem because they produce both oxygen and a food source for aquatic animals. While algae come in hundreds of different forms, the ones that should concern turf managers most are hair or string, and blue-green algae.

The disadvantages of algae.

Excessive algae growths can cause the unsightly scum that significantly reduces the aesthetic of a pond. All algae consume oxygen at night and can cause pH fluctuations in the water that adversely effect fungicides and fertilizers when that water is used for irrigation. In the case of hair algae, excessive growth can lead to strangulation of submerged plants and fish, and it is the primary cause of clogged filters and pumps. In addition, dead or decomposing algae utilizes oxygen in the water and can lead to low or zero oxygen environments contributing to fish kills and the death of other aquatic animals. Some algae, particularly blue-green algae produce powerful toxins and can create health hazards for people and animals.

What are blue-green algae?

Blue-green algae or Cyanobacteria are microscopic cells, which grow naturally in fresh water. The first recognized species were blue-green in colour, hence the name. Species identified, range in colour from olive-green to red. Cyanobacteria from in warm slow moving or still water. No firm figures exist, but researchers are generally in agreement that 30 to 50 percent of cyanobacterial blooms are harmless. The remaining 50 to 70 percent contain cyanobacterial toxins, which in concentration can be very dangerous. The only way to determine if an algal bloom is toxic is through microscopic

examination and toxicity testing by an approved laboratory.

What are cyanobacterial toxins?

Cyanobacterial toxins are poisons produced and stored in the cells of certain cyanobacteria. Blue-green algae produce four major forms of toxins:

- *Hepatotoxins* damage liver and other internal organs and may also cause gastroenteritis, nausea, vomiting, muscle weakness and vision problems;
- *Neurotoxins* act as neuromuscular blocking agents leading to paralysis and respiratory arrest;
- *Endotoxins* can cause severe dermatitis, stomach cramps, nausea, fever and headaches and if inhaled can cause asthma;
- *Non-specific toxins* are relatively slow acting and progressively damage most organs particularly the liver.

These toxins are usually released into the water when cells rupture or die. Toxic blue-green algae have been implicated in the death of livestock, wildlife and pets (particularly dogs) through drinking contaminated water. Although many people have become ill from exposure to cyanobacterial toxins, no deaths have been recorded in Canada to date.

What causes algae blooms?

Even if you can't see an alga bloom floating on the water, that doesn't mean one isn't there – the bloom can be suspended at various depths where you can't see it. The depth at which blooms float depends on a number of factors. The most important for cyanobacterial blooms are light, phosphorous and nitrogen. As the availability of these elements can change quickly depending upon time of day and weather, cyanobacteria have evolved the ability to control their own buoyancy. In order to activate the mechanism that allows them to rise or fall at will, cyanobacteria need light. At night cells are unable to control their buoyancy and often float to the surface forming a surface scum that can linger until wind and waves disperse the cells.

How can algae be controlled?

There are literally dozens of options when it comes to controlling existing algae blooms. They range from the very low tech removing clusters by hand to adding barley straw bales to utilizing copper sulphate based products. The problems with addressing the algae after the bloom occurs are threefold:

- Killing or rupturing cyanobacterial cells can release their toxins into the water;
- Algiciding or killing a bloom simply adds organic sludge to the bottom of the pond and enhances the environment for a new algae bloom;
- Simply removing the algae – by whatever means – does nothing to treat the conditions that caused the algae in the first place.

The best way to avoid the problems associated with algae is to prevent blooms from forming in the first place. This can be achieved in three steps:

- Reduce nutrient inputs. A two-metre buffer zone around the average pond will reduce non-runoff nutrient input by up to 80%. This does not mitigate the nutrients already present in the pond, but it does work well in conjunction with other measures;
- Improve circulation. The addition of a fountain or even an arching hose stream can improve pond circulation. It is important when adding a circulation device to ensure that the pick-up and discharge points are far enough apart to provide positive flow;
- Add beneficial bacteria. This is the most proactive step turf managers can take to clean their ponds and stop blooms before they start. If the right bacteria are introduced consistently over a period of time, they out compete algae by consuming the excess nutrients in the water. Over time the same bacteria can improve water clarity and consume significant amounts of sludge from the pond bottom.

While there have been several attempts at the introduction of beneficial bacteria through products that involve yeast, molasses, and even stovetop brewing, they all seem to have missed that mark. The key to using beneficial bacteria is to utilize a product that delivers the bacteria constantly. Significant ebb in the

dispersal rate can allow algae to get a foothold and set your bacteria program back. Utilizing the newly available bacteria "factory" technology ensures maximum consistency in the delivery rate while more importantly delivering certified beneficial bacteria that are completely harmless to people, fish, and amphibians. Used in a program from thaw to freeze, beneficial bacteria have been proven to significantly reduce nitrite and nitrate levels in ponds. Even ponds already experiencing algae blooms have shown marked improvement in only 60 days of treatment.

For many turf managers who also have ponds and waterways under their care, the prospect of having to deal with water quality issues and algae complaints is not something they relish. But by taking a few proactive steps at the beginning of every year, you can at least be sure that the grass will always be greener...than the pond.

David Sim holds an Honours Bachelor of Outdoor Recreation (HBOR), and a BA in English Literature from Lakehead University. He has worked in the turf industry for the last 18 years. He is a certified greenskeeper and horticulturist and has taught greenskeeper apprentices with Sir Sanford Fleming College for the last 11 years. He is a certified golf irrigation auditor (Irrigation Association) and works for AllTurf Ltd. as a representative covering irrigation products and Eastern Ontario. As if that were not enough he is also a happily married father of two boys living in Mt. Albert, Ontario.

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Member profile

Interview with Tim Webb

Golf Superintendent, Sunningdale Golf Club

by John Bladon, Editor

At the age of 13, could anyone imagine remaining so close to the golf course industry for the next 25+ years? Many of us can indeed relate and no one more so than Tim Webb, Golf Superintendent at Sunningdale Golf and Country Club in London, Ontario.

His exposure to work and golf began in the back shop of one of London's municipal courses, Fanshawe Golf Club. As the years progressed, in conjunction with Tim's ability to play the game, he inevitably graduated to the proshop. During that time he had struck up a friendship with Fanshawe's then superintendent Al Stoyles who managed to lure Tim to his maintenance team.

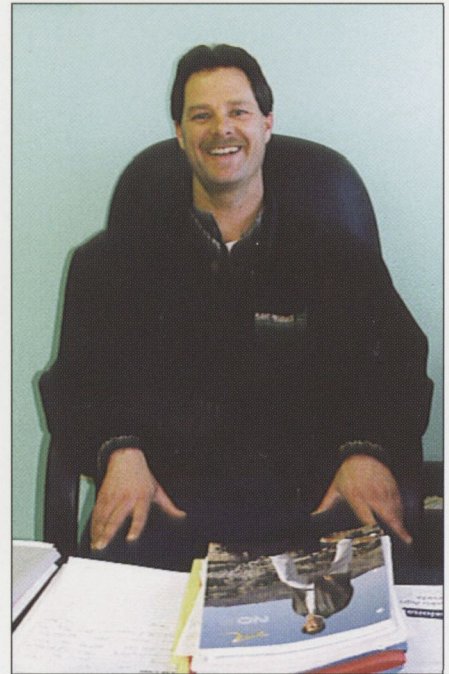
"It just came to a point where I realized I didn't want to be indoors anymore. The best part of those early years at Fanshawe were playing and caddying through most of my days and after graduating up the golf shop ladder, I realized that the best way to continue enjoying the outdoors was to go and work and learn with Al."

With Al's encouragement, Tim completed his Horticultural Apprenticeship Certification while at Fanshawe and then a diploma at the University of Guelph. In early 1986, Tim responded to an ad placed in the local paper by Sunningdale superintendent, Murray Finch. He

invariably acquired the posted assistant's position and in 1987 was promoted to the position he holds to this day, that of golf superintendent.

"I think back to my early years as a superintendent, and in general, how accepting the golfing community was of conditions. It is truly amazing to me how far we have come and how high the expectations are now of someone in our profession and position."

To that end, London is an incredibly competitive market for golf and Sunningdale's 36 hole facility has changed dramatically in recent years. Under Tim's supervision, Carrick design conceived a plan that began with the installation of an automated irrigation system, pumping station, reservoir, new driving range tee and target greens through 1999 and 2002. They also included bunker renovations and new tee complexes on both the Thompson course and the Robinson course. The most recent component is a new clubhouse facility complete with landscaping and chipping area. So what is next for Sunningdale and Tim Webb, you ask? The final piece of the renovation puzzle, in Tim's mind, would be to convert the club's fairways to bent from their current poa/bent/rye blend, at some point in the future. In the



interim, he and his team are within a whisper of having Sunningdale certified as an "Audubon Cooperative Sanctuary" and are busy developing a new communication tool, an environmental website for the club. Tim remarked on the need for the club to continue to be progressive and confirmed why, from what I had seen on my drive in, London was indeed booming. In what had once been a rural setting, Sunningdale is about to become a golf club in the "burbs" set amongst hundreds of new homes in the coming years. With all those new neighbours moving in, my suspicion is they have the right guy at the helm.

Finally, Tim lives on the Sunningdale property with wife, Lynn, and children, Brandon, 12 and Kaitlyn, 10. He also contributes his time as a volunteer firefighter to the local town of Arva.

"In the Hot Seat"

- Favourite Major?
- Favourite piece of turf equipment?
- Ultimate foursome, you and what three?
- Low round and where?
- Favourite golf architect?
- Favourite track outside of London?

- What's in the CD player?
- Favourite meal?
- Favourite movie?
- Rate your lawn on a scale of 1-10
- What would you be doing if you weren't

The Masters

The Verti Drain...biggest impact at Sunningdale

Lee Trevino, Jack Nicklaus and Arnold Palmer

68, Sunningdale, Thompson Course

Stanley Thompson

Ontario Federation of Snowmobilers track between Parry Sound and Huntsville

The Who

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Below the average...

In the turf industry? Likely a machinist...somewhere in the north for a longer snow season!

Golf course highlight

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Email: pwgc@mnsi.net

Website: www.pointewestgolf.com

Golf Course Superintendent: Lamont Anderson



Number 7 from 6th Green

COURSE PROFILE

What county is your club located in?
Region of Essex

Is your club private, semi private, public, resort or municipal?
Private, with 575 members

Typical number of rounds
32,000 rounds per year

Typical opening and closing date
Beginning of April to end of November

How long have you been a superintendent?
28 years

List other accomplishments
OGSA Board (3 years)

How long have you been an O.G.S.A. member?
33 years

How many staff?
3 year round, 11 seasonal staff and 5 students

How many assistants and mechanics?
1st Assistant: Ken Emery
2nd Assistant: Matt Erickson
Mechanic: Paul Brockman

How many gardening staff?
Margaret Schwemler and Debbie Anderson

COURSE STATISTICS

How many holes?
18

What is the yardage from back and forward tees?
6,800 yards from the back tees and
5,200 yards from the front tees

What is the size of driving range and range tee?
5 acres of tee area and 325 yards in length
From back of tee is 18,000 sq.ft.

How many bunkers?
99

How many times does water come into play?
5 ponds come into play 8 times

Who was the original architect?
Thomas McBroom

What was the year of original construction?
1987

What major tournaments have been held there?
1993 RCGA Seniors

What is the size of your maintenance shop?
8,200 square feet

What type of irrigation system?
Toro OSMAC triple row system with Site
Pro central control system

What is the size of greens, tees & fairways?
122,200 sq. ft. of greens
109,000 sq. ft. of tees
22 acres of fairways

What is your predominant grass?
Poa/Bent

How many USGA and loam greens?
20 USGA

What is the predominant soil type?
clay

What equipment do you have in inventory?
1 GM 1000 green mower
1 Jacobsen walk green mower
1 Toro GM3150 triplex
2 Toro GM3100 triplex
1 Toro GM3100 triplex with vibratory rollers
1 set Toro dethatcher units
2 Toro 5400 fairway mowers
3 Jacobsen HR-5111 rough mowers
1 Toro 228D rotary mower
2 Toro Sand Pro 3020 with blades
1 Cushman truckster
1 Cushman truckster with Smithco 200 gal
sprayer
1 Cushman diesel truckster with SDI 300 gal
sprayer
2 John Deere Turf Gators
2 Jacobsen 1900D trim mowers
1 Club Car Carryall II utility vehicle
1 EZ-GO utility vehicle
6 Yamaha golf carts
1 Ford 3910 tractor
1 New Holland TN75S tractor with 33LA
loader
1 Ford 550 Loader/Backhoe
1 Super-Tilt dump trailer
2 large equipment trailers
2 small equipment trailers
1 1982 Chevrolet pick-up truck

1 2004 GMC pick-up truck
1 Bannerman Multi-Jet slitter
1 Bannerman Super-Ject 600
1 GA60 fairway aerifier
1 Toro debris blower for 228D
1 Echo backpack blower
3 string trimmers
1 Red Max trimmer
1 Express Dual reel grinder
1 Express Dual bedknife grinder
4 Lely spreaders
2 chainsaws
1 Massey Ferguson hay mower
1 Turfco Mete-r-matic III topdresser
1 Pro-Seed Speedseed overseeder
1 Toro Pro Core green aerifier
1 Royer 262 soil shredder
1 Smithco P48 sweeper
1 Ryan Jr. sodcutter
2 Scotts R8-A spreaders

COURSE PROJECTS

What projects have you recently completed?
Remove retaining wall at #18 green and
regrade to pond edge. Install armour stone
wall along #14 green.

LONG RANGE PLANS

What long range plans for renovation do you
have in the next five years?
Implement McBroom Master Plan and
upgrade maintenance facility.

CHALLENGES

Are there any particular challenges you face
with your property?
Heavy clay soil and inadequate drainage.
Neighbouring homes. Humid summer
weather. Moss in greens. Cart traffic.

SUCCESS STORIES

Do you have any success stories?
Irrigation system and pumphouse.

Please list any innovative cultural practices
you may perform.
Fairway core processing with Goosen
Versi-vac.

Golf Courses and the Greenbelt Plan

by Kevin Holmes
MBTW Golf Design

Each year, thousands of golfers flock to golf courses located in the Niagara Escarpment and the Oak Ridges Moraine. These courses attract golfers with their challenging and interesting layouts that capitalize on their unique physiographic features - dramatic topographic changes, pristine kettle lakes and wetlands, abundant streams and mature forests. Over the last ten years, these regions have seen a decrease in new golf course construction, due in part to the establishment and implementation of the Oak Ridges Moraine Conservation Plan (ORMCP) and the Niagara Escarpment Plan (NEP). The introduction of these two plans has increased the difficulty of approvals for new golf courses construction.

What is the Greenbelt Plan?

In 2002, the Provincial Government unveiled the Greenbelt Plan. The Greenbelt Plan, which includes lands within the established NEP and the ORMCP, was created in an effort to protect over one million acres of environmentally sensitive lands and agricultural properties from development. This March, the Provincial Government implemented the Greenbelt Act, known as Bill 135. This Act will introduce even tougher laws that will further impact not only the approvals for new golf course projects, but also existing courses looking to expand or renovate.

Over the last several years, our golf course design team has been involved with a number of new and existing golf courses within the Oak Ridge Moraine (ORM). By definition, the ORM is a ridge of sandy hills, north of the GTA, that stretches for 160 kilometers, from the Trent River to the east to the Niagara Escarpment to the west. The Moraine is rich in sand and gravel deposits, contains the largest concentration of headwater streams in the GTA and acts as a recharge area for groundwater.

The ORMCP was established to control urban sprawl as well as major recreational uses such as golf courses. The public perceives golf courses on the ORM as competing with the natural environment and responsible for depleting groundwater resources, due to their irrigation needs.

The ORMCP divides the Oak Ridges Moraine into four designations based on their environmental sensitivity.

- **Natural Core Areas** have the greatest concentrations of significant features and functions, including woodlands, valley lands, wildlife habitat and fish habitat.

- **Natural Linkage Areas** are large-scale open space linkages between Natural Core Areas, typically stream corridors and river valleys.
- **Countryside Areas** are primarily agricultural lands.
- **Settlement Areas** are lands located within the existing urban boundaries of villages within the ORM.

Golf courses are permitted within the Countryside Designated Areas if the proposed development meets the stringent review and approval standards that ensure the Moraine is protected. To satisfy the approval process, a detailed Site Evaluation Report must be conducted to:

- Assess the site's biophysical environment;**
- Evaluate the proposed golf course in relation to the various policies of the ORMCP;**
- Analyse the impact of the proposed golf course, including fertilizer and pesticide use;**
- Identify proposed mitigation measures; and**
- Monitor the effects of the proposed golf course on the environment.**

An Agricultural Assessment may also be required as most of the Countryside Area designated lands are agricultural. Golf courses are generally not permitted in Prime Agricultural Lands, but may be permitted in other agricultural classifications if the Agricultural Assessment demonstrates that it is not possible to farm the land for reasons such as inadequate soil capability or if the plot is too small and fragmented.

There is no doubt that new golf courses within the Greenbelt area will undergo a more rigorous approval process than before. However, it should be noted that one objective of the Greenbelt Plan is to provide open space and recreational, tourism and cultural heritage opportunities to support the social needs of the rapidly expanding and increasingly urbanized population. As golf courses in the GTA are being swallowed up by urban development, new golf courses must be provided to meet the demand. The problem is that new golf courses within the Greenbelt Plan will be fewer. As a result, golfers from the GTA may have to travel to facilities north of the Greenbelt boundaries - and some say that a game of golf takes too long to play now.



photo by Kevin Holmes • Heather Glen: Elevated tee sites are common throughout the dramatic topography of the Oak Ridge Moraine.

How does the Greenbelt Plan affect plans for the construction of new golf courses?

For those looking to purchase a property for the purpose of building a golf course - buyer beware. We recommend that they review the Greenbelt maps to determine the site's official designation. There are many landowners who were caught unaware by the Greenbelt Plan and surprised by its policies restricting development opportunities. At one of our recent golf course projects located in Durham Region, the owner, who was not consulted by the Province during the development of the Greenbelt Plan, was astonished to find that his entire golf course was designated and included within the boundaries of the Greenbelt Protection Area.

How does the Greenbelt Plan affect existing golf courses?

The most significant impact of the Greenbelt Plan will be felt by existing golf courses that are looking to expand or renovate their facilities (this may include a strategy of purchasing adjacent lands to accommodate the expansion). Similar to new golf course construction, we recommend that golf courses review the Greenbelt maps to determine the designation(s) of their property. These designations could severely limit a Club's opportunities for expansion or renovation. As an example, a golf course may be primarily designated as a Countryside Area; however contain significant forests or streams that may be designated as a Natural Core Area. Based on the Act, intrusion

into the Natural Core Area would not be permitted. Owners should also anticipate that any expansion would be required to maintain and/or improve the ecological and hydrological integrity of the ORM.

What is the future of golf in the Greenbelt?

Continually changing political climates and pressure from those with a stake in the ultimate use of the ORM leaves the future of golf in the Greenbelt unclear. At this time, Land Designations, Site Assessment Reports, and current legislation (such as Bill 135), are all we have to guide us. As professionals within the golf industry there are some steps that we can take to help influence the future success of golf in the Greenbelt.

As Golf Course Architects, we can focus on several of the objectives set out in the Greenbelt Plan. 'Providing open space and recreational, tourism and cultural heritage opportunities to support the social needs of the rapidly expanding and increasingly urbanized population' was previously mentioned. Another key objective of the Greenbelt Plan is to preserve the natural landform and character of the ORM. This objective may mean returning to our roots as golf course architects – providing minimalist golf course designs with creative routings that are influenced by the natural lay of the land, not our ability to move large quantities of earth.

As Golf Course Developers, we can look to the restoration of exhausted landscapes with golf courses. For example, sand and gravel pits located on the ORM and Niagara Escarpment are often suitable sites for new golf course development. These landscapes can offer golf course routings with the similar, if not superior challenge and interest that attracts golfers to existing golf courses.

As Golf Course Superintendents, we can focus on what we have. Some of Ontario's most scenic golf courses are located throughout the Niagara Escarpment and Oak Ridges Moraine. By continuing to actively manage these golf courses in an environmentally sensitive manner, we can continue to influence and educate the public, creating a positive perception of golf courses and their relationship to the environment.



photo by Kevin Holmes • Golfer's Dream Golf Club : Exhausted gravel pits are suitable sites for new golf courses in the ORM.

Above the hole

by Justin Parsons, Student & Intern
Markland Wood Country Club

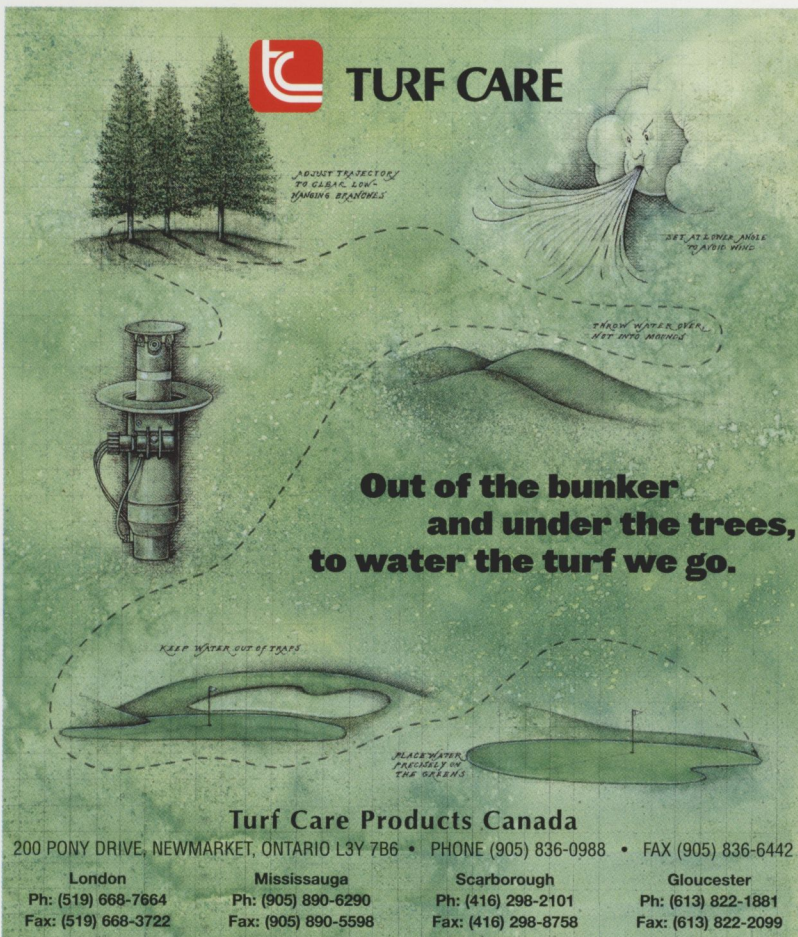
With spring fast approaching and second semester rolling along, the job board at Seneca College is filling up like John Daly at an all night bakery. Most students take the time to read the postings, but few will actually respond to them. In talking to several students, it is obvious that most are content to return to their respective courses. The typical response was, "I got a good thing going there, why change it?" or "My boss is going to move me up in the ranks this year" or "I'm not leaving that place until I break 80!"

Though these are all valid reasons for staying put, I can't help but wonder why we don't at least consider other possibilities. After all, there are several excellent employment opportunities up for grabs right now. How can we be certain that one of these positions won't be a better fit, or provide a more beneficial experience? I must admit, that I am just as guilty. I find myself reading the job board on a daily basis, but I have yet to contact any of the individuals who have posted the positions. At the very least you get your name out there, you will likely get valuable interview experience and you may even get to see how another operation is run. All of these would be extremely advantageous to any turf student. So why don't we take the

time to spruce up the resume and make a few phone calls?

After much soul-searching, a carton of Ben and Jerry's, and a tender viewing of Steel Magnolias, I realized that it is only human nature to want to maintain the status quo. It's safe, comfortable, and easy. For the most part, we rarely challenge ourselves unless we have to. This is unfortunate because often times stepping out from the shadows of familiarity can be good for us. It forces us to prove ourselves all over again. We must not forget that even the jobs we currently hold were once brand new experiences filled with apprehension, nervousness and excitement. Over time those feelings shift to confidence, comfort and perhaps, complacency.

Now, I am certainly not suggesting that any student choosing to go back to a course he or she has worked at for several years is a mistake. I am simply saying that it never hurts to consider other possibilities, even if you are happy where you're currently employed. The bottom line is the best things in life rarely come easy. It makes me think of getting a bag of airplane peanuts and using my teeth to open the package.



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Golf in Dubai

by Brian Haum, Assistant Superintendent
Hamilton Golf & Country Club

After nearly 15 hours of travel, my wife Julie and I arrived in Dubai, a city-state in the United Arab Emirates. Following repeated invitations from friends of ours who have been expatriates in the UAE since 2000, we finally decided that the time was just as good as any. While planning our travel arrangements I took on the task of trying to contact the Emirates Golf Club in Dubai, to organize a tour of their golf course where they have successfully hosted the European PGA Tour and the Dubai Desert Classic. I had corresponded with Mr. Jeff Julich, Golf Course Superintendent and Florida native, who was more than eager to provide a tour of his facility upon our arrival.

For those who are not familiar with Middle East geography, the UAE is a small tract of land that dots the lower end of the Persian Gulf and opens to the Arabian Sea on their eastern border. To compare, its latitude is close to that of southern Florida, giving it a climate of similar nature, with the exception of mid summer where desert temperatures can climb to 40 degrees Celsius day in and day out. The UAE is formed of 7 emirates or states, including Dubai and is governed by 2 royal families. As is with most countries in this area of the world, oil is the foundation of the economy but, in the past 10 years under the guiding hand of the recently deceased Sheikh Zayed, Dubai has become an international business center and travel Mecca for the world. Dubai itself is a very progressive city that boasts huge attractions (the Burj Al Arab, Dubai World Cup of horse racing, Rugby 7's) and services, as well as a sound political culture, making it attractive to all who travel there. Even though it is a Muslim country, nearly 40% of its population are expatriates from countries such as the United Kingdom, Canada, U.S.A. and Australia, to name a few.

Once we got settled at our new home for the next two weeks, I contacted Jeff on his mobile and established a convenient time for our tour of the Emirates Golf Club. He was presently in the midst of overseeding the Majilis course (tournament course) but would be able to see me nonetheless the following week. To give a brief outline of the Emirates Golf Club, it was the first grassed golf course in the gulf region way back in 1988, designed by Florida native Karl Litten. It consists of 36 holes, the Majilis course and Wadi course, with the Majilis hosting the Dubai Desert Classic all but twice since 1989. This tournament is the perennial favourite on the European PGA Tour and has seen victories by Ernie Els, Colin Montgomerie and Mark O'Meara, to name a few. Jeff Julich has been golf course superintendent at the Emirates Golf Club for the past five years and due to his training in native Florida has been able to adapt fairly easily to the southern grasses, like Bermuda, that are dominant in this climate.

"Tour day" had finally arrived and I met with Jeff at the clubhouse on a Sunday, the first day of the week on a

Muslim calendar, at 10:00 A.M. The first sights of the property were typical of what you would expect of any golf club of this stature. Gated entrance with security, full parking lot, somewhat busy clubhouse, etc. If it were not for the Arabic architecture theme of the clubhouse you might think that you were at any golf club in a southern climate.

We started on the Majilis course and weaved through its holes while he described the course in detail. Being somewhat flat and with 17 man-made lakes interspersed throughout the property, I was reminded of the prototypical southern climate golf course. Jeff described in detail the overseeding process that he must take on year in and year out. The entire golf course is grassed to bermuda with "Tif" greens and "419" tees and fairways and so he overseeds the entire property with rye grass with the exception of the greens, which are converted to a Colonial bent/poa trivialis blend. Timing and execution of this process is critical in order to have a good stand for the March tournament date and still provide excellent playing conditions to the 1500 club members. As we continued, it was clear that he had indeed received a good catch of grass evident by the shades of new green shining everywhere. As for the constant circulation of sprinklers about the property, Jeff stated that the endless syringing is of dire necessity during the overseeding process and that any green you see on a desert golf course is due to intense irrigation. Jeff told me his average water use for a single day is well over 1 million gallons! Up until now he had unlimited use of water from the city but was going to have to start using recycled water, making him wary of the quality that he would be applying. The Emirates Golf Club has its own desalinization plant to treat seawater before it is used, pumping it into two fresh water lakes on the property.

As we continued the tour through the Majilis, I noticed that there were workers already erecting tournament scaffolding on the 18th hole near the clubhouse. Jeff informed me that official set up for the begins on December 15th, nearly 3 months prior to the start date in order to meet deadlines. While all this set up moves forward, both courses are open for full play and draw nearly full playing sheets 7 days a week including corporate outings. In spite of this, Jeff is still managing to employ an agronomic standard high enough to host a European PGA event. If it were not for the three-week shut down on the Majilis before the March tournament date, he said that neither he nor the golf course, would find a reprieve from the steady number of rounds being played at the Emirates.

Jeff and I ended our tour at his maintenance facility, positioned at a somewhat central location and to the rear of the practice facility. During a walk through the single encompassed barn and office facility, it was evident that

having the right equipment and supplies, and lots of it, is the management style in the Middle East. Jeff commented that not all suppliers and distributors are always able to provide instant service so stock ordering of equipment, parts and raw materials is necessary. For example, when Jeff orders any type of stock parts for servicing mowing equipment like hydraulic lines, bed knives, reels and the like, he orders enough for an entire season plus. To some, this may seem like a large overhead expense, but to Jeff it provides peace of mind.

As we headed back towards the clubhouse, I noticed a "Drill and Fill" machine used for aggressively augmenting soils in putting greens. Jeff stated that there was a lack of quality control in the original construction of the

Emirates greens and it was his most valuable purchase since being there. This statement confirmed to me that there was indeed a theme present here. Here I was, a 9-hour time difference from southern Ontario, at a golf club that annually hosts a European PGA Tour event to the highest accolades and yet was speaking with a superintendent trying to come to terms with the same old day to day issues; water constraints, play pressure, weak growing medium, etc. Jeff was dealing with very same issues that superintendents face back in Ontario. Clearly, being a golf course superintendent is an international profession deserving of recognition no matter where on this earth you KEEP THE GREEN.





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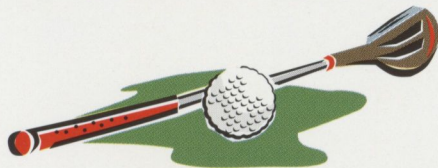


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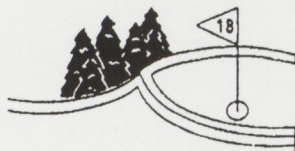
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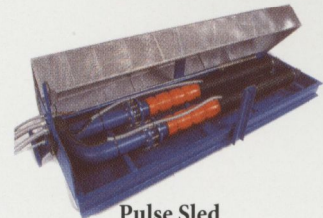
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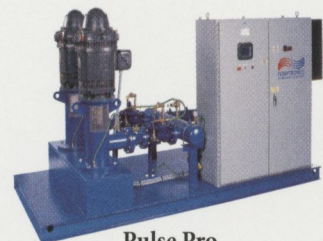
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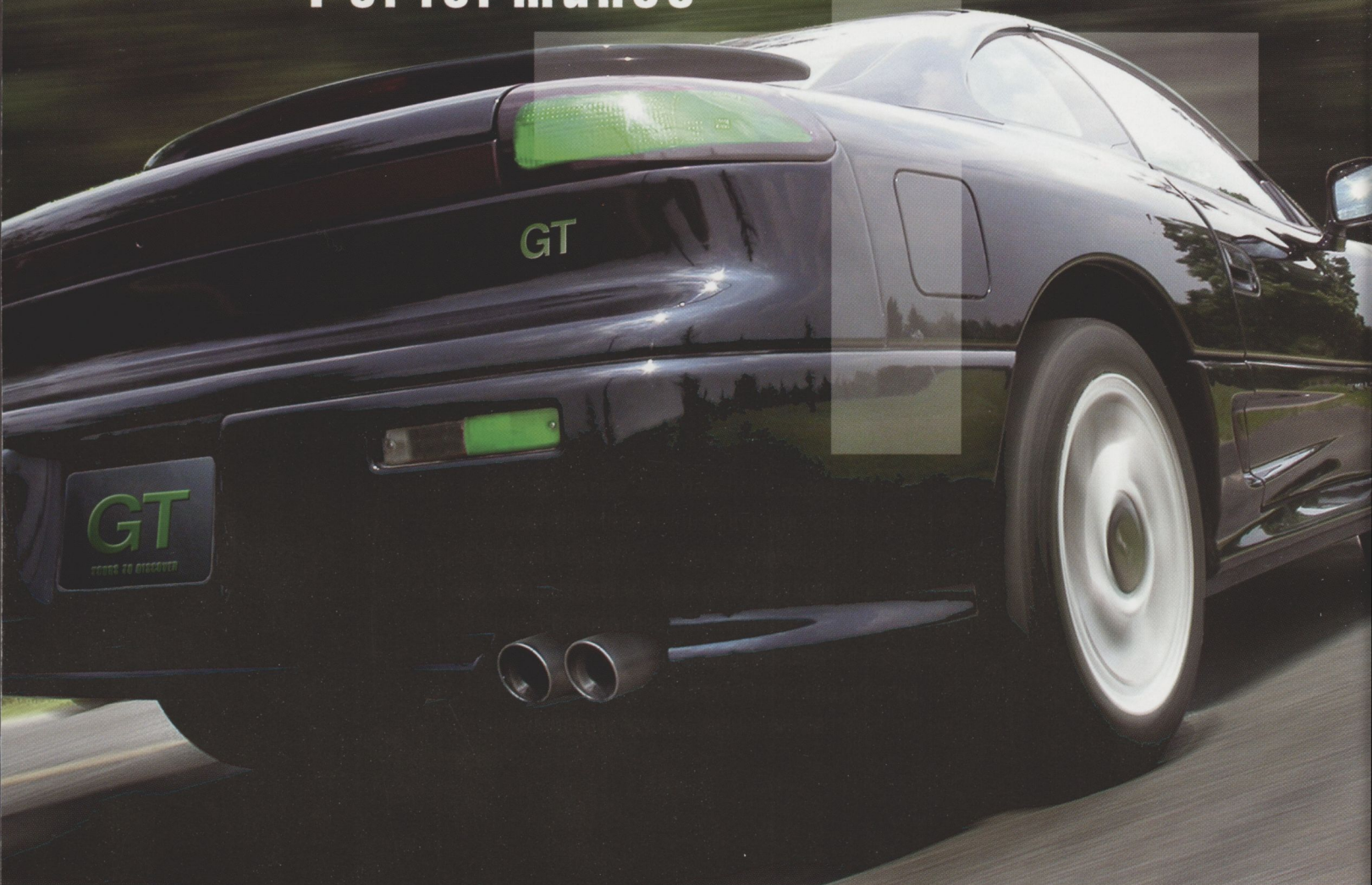
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Off the fairway



by Daisy Moore

Pruning woody plants

Pruning is an old horticultural practice, difficult to master but commonly carried out. There are few general rules about pruning, especially the best time to prune, so it is a frequently asked gardening question. There are so many exceptions to rules that it is best to look at each case separately.

Let's start with basics. Pruning is the act of cutting existing growth on woody plants to control future growth, and it is part of the overall maintenance of plant health. It works in tandem with other cultural practices.

The main reasons for pruning are to promote flower or fruit production, and to give plants a better shape. Other reasons are to help plants recover from injury to the roots following transplanting; to remove or restrict unwanted growth, such as suckers; to encourage or train growth where it is desired, such as with grape vines; to remove dead or injured wood; to alter form, as in standards or hedges; and to rejuvenate old shrubs. Whatever the reason, pruning should only be carried out when the purpose and techniques of pruning are fully understood. Pruning is both an art and a science and when done unwisely, will cause more harm than good.

When to Prune:

1. Cut out dead or damaged growth as soon as it is noticed at any time of the year. This will remove a possible source of infection for the affected plant and susceptible plants nearby. For trees or large shrubs in public areas, dead and damaged branches should be removed for safety reasons or nature will shed them at an inappropriate time.

2. To control the shape of a tree or shrub, prune prior to a period of active growth, such as in early spring. This will channel the plants energy to the remaining buds and increase their vigour. Late winter, when the leaves are gone and buds are still dormant, is an excellent time to prune and shape deciduous woody plants. Overlapping branches are revealed along with imbalances in the shape caused perhaps by growing in the shade or if a branch was removed from damage or disease. The removal of thin, weak growth from the centre of a tree or shrub encourages a free circulation of light and air; increasing the overall health and vigour of the plant. One general rule is to take no more than 30% of the growth off at a time. Sometimes, though, pruning down to ground level benefits the plant because the fresh new growth is filled with vibrancy and flower. This applies, for example, to dogwoods and shrub roses.

3. When pruning flowering shrubs, extra consideration needs to be made so as not to affect the flowering. Another general rule is to prune after they have finished flowering. This is to allow the plant as long a growing period as possible in which to produce the next crop of flowers. For example: spring flowering shrubs such as *Forsythia*, *Bridleweath Spirea*, *Lilacs* or *Rhododendrons*, produce their flower buds the previous summer. The buds are formed on old wood and survive over the winter. Pruning in early spring, prior to

flowering, will remove these flower buds. With *Forsythia* in particular, people are inclined to trim back the wild and ungainly growth in the fall or early spring in order to tidy up only to discover that the flowers have been left on the editing room floor, so to speak.

Summer flowering shrubs tend to be more forgiving in terms of the time period when you can prune and still enjoy flowers. Shrubs that flower later in the season tend to flower on new growth so these can be pruned up until growth begins in the spring. The flower buds are formed on new wood.

Pruning after flowering will prevent the plant from using its energy on seed and fruit production. Rather, the plant will concentrate on vigour and next years crop. With fruit trees, the objective of pruning is to maintain strong, balanced growth that can sustain a desirable fruit load. Less fruit will mean larger fruit.

4. Summer pruning is done when the purpose is to dwarf the plant or to channel growth in a different direction. Pruning exposes buds that were previously shaded by the outer growth. The intensity of the summer sun will kill the newly exposed buds. Topiary, bonsai and espalier, for example, are shaped in part by summer pruning. *Wisteria* vines are pruned in the summer to promote flowering.

5. Pruning in the fall is generally a bad idea. Pruning can stimulate growth, if followed by a warm spell, and this growth is too succulent for late fall conditions. A pruned plant might be killed off.

How To Prune:

Pruning is both an art and a science. It entails looking ahead and anticipating what will result after a particular cut. Pruning will stimulate growth from the bud immediately beneath the pruning cut. Consider the direction the remaining bud is facing and what effect this will have on the shape. (This is a big consideration when pruning hybrid tea roses). Cut branches back to the next main stem rather than shortening the branch, or you may get a tufted or "broom" appearance.

A good pair of secateurs (more than \$10) is the best tool for cutting branches 1" or less. A pair of ratchet loppers is indispensable and will tackle the larger branches up to 3". Larger branches require a pruning saw or a trained chainsaw operator.

The cut should be as smooth as possible for better healing, just as with a flesh wound. A clean cut is achieved with sharp, quality tools. Make the cuts on an angle to prevent water from collecting in the scar, and cut as close to the remaining bud as possible.

The purpose of pruning is to benefit the remaining parts of the tree, shrub or vine; or for the benefit of the garden. It is not always necessary to prune and it is best to do a bit of research before you proceed. Learn how to care for and prune the plants you have. If you make a mistake, it is usually not fatal and the plant will recover its flowering habit over time.

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Players were treated to 2 days of intense hockey action with each team playing four games, including a Tuesday night "attitude adjustment" party, sponsored by Club Car. Turf Care Products sponsored the ice time for the competitors and Rain Bird supplied after game refreshments to all participants. Draw prizes at the Tuesday night party were supplied by Duke Equipment and Podolinsky Equipment.

After the dust had settled, a new champion was crowned for 2005 with Team Toronto 2 defeating, a short-handed but very game, Team Michigan in the final. Four-time consecutive champion, Team Northern Ontario, lost out on its bid for five straight titles and had to settle for 3rd place, defeating Team Toronto 1. Team Ottawa defeated Team Quebec for 5th place, which was a huge improvement for both squads. Team New York beat Team Kitchener 2 for 7th place. Team London got past Team Kitchener 1 for 9th place and finally, Team Niagara squeezed by Team Turfnet to avoid the basement.

Thanks to all participants as well as sponsors, referees, timekeepers, coaches and fans who all contributed to make this event a great success.



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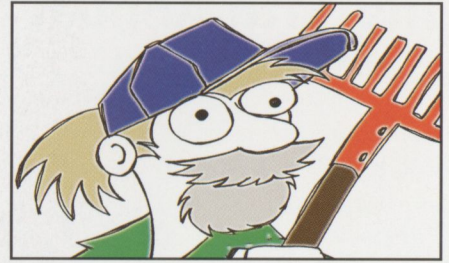
by Doug Breen, Superintendent
Golf North Properties

The number one song of 1982 was "Freeze Frame" by the J. Geils Band. There were two songs that year in the top ten by Hall & Oates, and one by The Human League. "Fast Times at Ridgemont High" was edged out by "The Thing" for biggest movie. Both made more money than "E.T.", which my girlfriend made me watch and I still can't stand. Pinball arcades were filled with; well, pinball machines. There was the odd "Asteroids" or "Pac Man" game in the corner, but no one was about to waste a quarter on either. The ultimate status symbol was to wear a digital watch, which was worth about sixty-five bucks and weighed ten pounds. It was also thick enough to hold a couple of "D-cell" batteries, which had to be replaced every two hours. For two hundred dollars, you could buy a calculator that would add, subtract, multiply and divide. For another seventy-five it would do square roots, although I never did understand why anyone would ever need to know the square root of anything anyway. Chrysler was on the verge of bankruptcy, and was about to be saved by building the ugliest car in the history of the world. Toyota built the first "Supra"; the same year the "K-Car" hit the market. Hard to fathom how the Japanese got ahead of Detroit isn't it?

I was in grade 10, and was at the top of my computer class. I was on the cutting edge of technology, and could program as well as anyone at Lord Dorchester High School on the most powerful personal computer in the world... the Commodore Pet. 2000 dollars for sixteen kilobytes of memory! How could we ever fill such a massive chip? We'd spend forty-five minutes loading the three cassette tapes that contained the home version of "Pong", and there was still memory remaining. In 1982, I could program a new version of "Pong" faster than you could load it from cassette, especially since the program never, ever loaded properly the first time. My point is, that in 1982, I was the cat's pyjamas when it came to PCs. I was bigger than REO Speedwagon. Then, one year later, all the Commodore Pets were in the dumpster behind the school. They had been replaced by Commodore 64's.

"Who in the world will ever need 64K of memory?", I cursed. "Why would anyone ever want a colour monitor? Computer screens are only green! That's the way God intended it." That was the day I bailed out on computers.

That is why today, twenty-three years later, our computer guru (or "I.T. guy") is driving a Mercedes, and I'm driving a pickup. That's why he shakes his head every time he looks at my laptop. Apparently it's laughable how I've "conflagged" my "moxyport", and how I haven't properly "flangewalled" my "exp\\http://quark.bite.me.geek reader". I just made those words up, and they sound exactly like the ones he uses in between condescending tongue clicks. Sometimes I swear he just makes up the jargon as he goes along to make me feel like an idiot. There's nothing quite so irritating as being talked down to by a forty-year-old guy who's never had a date, lives in his mom's basement, and

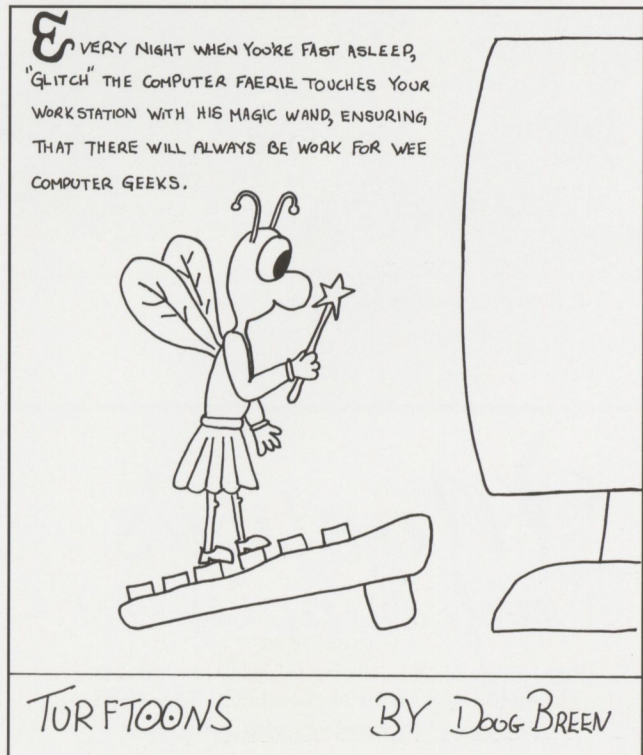


spends most of his spare time trying to photo-shop how various Star Trek characters would look in the nude.

Computer experts are like the Court Jesters of the twenty first century, only with less fashion sense. They can say things to the King that no one else would dare. You can be the president of the biggest company in the world, heck you could be the President of the United States, and there will always be one guy who can make you feel like a six year old who just threw up on the cute girl's desk. I guarantee you, that right now, some White House "I.T. weasel" is chatting online with one of his brethren about how G.W. left "Blattersplunk 5.2" on his desktop instead of upgrading to "Blattersplunk 5.3". "He doesn't even know that he's wasting 23.4 milliseconds on every "dooplesheet" application! And he's got the bomb!"

These machines are a tool like any other, and like most things, I have no idea how they work. I haven't got a clue how my T.V. works, but if it breaks down, the repairman doesn't openly mock me. My mechanic doesn't insult my intelligence because I don't know the serial number of some obscure after market part for my truck that would make it go a few milliseconds faster.

Thank goodness computers are simple enough to operate once they're set up, because I sure spend a lot of my time working with them. And to be honest, I wish I'd stuck with the technology past the Commodore Pet, but hey, I wish I'd gone out with Linda Wiese in 1982 too. Hindsight's 20/20.





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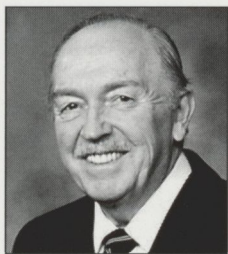
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IN MEMORIAM

George MacMillan Frost

February 24, 1922 – March 30, 2005



Surrounded by people who love him, “Mac” passed away on March 30th, 2005. Born in Toronto on February 24, 1922, he graduated from St. Andrew’s College in Aurora in 1939 and attended McGill University in Montreal before becoming a pilot with the RCAF Coastal Command in W.W. II. Mac, or “Monk” as his young comrades liked to call him, flew Sunderlands over the English Channel before returning to Toronto at the end of 1945. Following other business endeavours, Mac jumped into the golf business by purchasing, along with his father George V. Frost, and cousin, Art Bamford, CedarBrae Golf and Country Club in Scarborough. He went on to build and operate a “new” CedarBrae on Steeles Ave., Parkview G.C., and Brookwood G.C. Mac and his wife Beth, then independent from his former partners, carried on to build and operate Spring Lakes in Stouffville and finally Vespra Hills near Barrie, on Beth’s family farm.

Mac was a member of both the Ontario Golf Superintendents’ Association and the C.G.S.A. from whom he received the John B. Steel Distinguished Service Award in 1993. He was the first President of the NGCOA, Central Ontario Chapter and served the RCGA as a Governor, an Honorary Governor, and then an Associate Governor. Mac was the founding sponsor of the “G.M. Frost Building” or Guelph Turfgrass Institute at the University of Guelph in Ontario.

Mac and Beth have been ardent supporters of the Juvenile Diabetes Research Foundation since its inception

and were honoured at the International Conference of the JDRF in Washington, D.C. He supported and sat on the board of the Markham-Stouffville Hospital Foundation for more than ten years. He has served on the Board of the Management Institute of Canada, and in 1972, as well as more recently, has served on committees to negotiate for tax reform for the golf industry. Last but not least, he is to be inducted into the Ontario Golf Hall of Fame in May this year in the “builder” category, to honour his contributions to the game of golf in Ontario.

Mac Frost brought his generosity, integrity, intelligence and his sense of humour into so many lives and will be remembered with respect and affection. Mac leaves his beloved wife and loyal partner in life of the last 54 years, Beth Frost, his daughter, Cinder Warren and her husband Martyn, grandson Jason Hammond, as well as other dear friends and relations.

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by Barry Endicott, Superintendent
Banty's Roost Golf Club

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The **G.C.S.A.A.** Turf Conference and Show was held in New Orleans. The **R.C.G.A.** Turf Conference and Show was held at the Skyline Hotel in Toronto on March 18 - 20. The **Canadian Golf Superintendents Association** took over the administration and operation of the Turf Conference and Show with the co-operation of the **Royal Canadian Golf Association**.

Graham Shouldice was promoted from assistant to superintendent at London Highlands Golf Club. **Wilfred Wallace** was the new superintendent at Erie Downs, **Doug Hoskins** at the National, **Blake McMaster** at Brampton Golf Club, **Dave Chapman** at Victoria Park Golf Course and **Ross Thurston** at Cambridge Country Club. **Bob Hall** moved from Toronto Ladies to foreman of Parks and Recreation, Markham.

John Stoughton, at the Barrie Country Club, hosted the Ontario Open. **Paul Scenna** prepared the ice for the British Consuls Curling Championships at the Preston Arena in Cambridge. **Bill Hynd**, St. Georges, hosted the Ladies Professional Golfers and **Ed Orleib**, Bayview, hosted the Canadian P.G.A. Tournament.

New members **Bill Glashan**, Niagara Parks Golf Course, **Doug Brown**, Erie Shores Golf Course, **David Chapman**, Cambridge Golf and Country Club, **Dick Ingram**, Lido Golf Course, **Steve Miller**, Dundas Valley Golf Course, **Allan Mills**, South Muskoka Golf Club, **Gordon Orr**, Kleinburg Golf Club, **Walter Hach**, Conestoga Golf Club and **A. Murphy**, Indusmin Ltd.

Art Price became a life member of the **O.G.S.A.** **George Drew**, Richmond Hill Golf Club, died at the age of 65 on his golf course on October 31. He was 14 years assistant and then superintendent at Oshawa Golf Club, 14 years at London Hunt and 15 years at Richmond Hill Golf Club. **Jim Wyllie**, Lambton Golf and Country Club, was the president of the **C.G.S.A.**

Monthly meetings were held at North Halton Golf Club, **Al Beeney**, Summit Golf Club (spring dance), **Cam Cairncross**, Essex Golf and Country Club, **Dave Moote**, Westview Golf

Club, **Keith Nesbit**, Galt Country Club, **Paul Scenna** and Dalewood Golf Club, **Hugh Kirkpatrick**. The Christmas Party was held at Chinguacousy C.C., **Henry Guertin**.

The second annual President-Greens Chairman-Superintendent Tournament was held at Weston Golf Club on August 1. The Pro-Superintendent Tournament was held at the New Dundee Golf Club. The McClumpha Tournament was held at Chinguacousy Country Club October 6.

The Horticulture Apprentice Program, with a new Turf Management option at Humber College, was finalized under the direction of **Paul Dermott**, **Gord Witteveen**, **Dave Gourlay**, **Cam Cairncross**, **Bob Heron** and **Ted Hartwell**. Interested students will be paid 75% of their salary plus expenses, while attending this course.

SUMMARY OF GOLF EVENTS IN 1975

There were 32 members who played three or more rounds at monthly meetings or special events e.g. Pro-Superintendent, President-Greens Chairman-Superintendent etc. Many more played one or two rounds. The gross winner for 1975 was selected from the total of the low three scores, as the winner of the **O.G.S.A.** Trophy. The new Trophy was formerly used for the now extinct Greens Chairman Superintendent event. The original J.K. Campbell Trophy was retired as its only winner has also retired. **Mr. John Harris** won the original trophy 5 years in a row. That year there was a tie for low gross honours with **Mr. Hugh Kirkpatrick** and **Mr. Bill Bowen**, at 234. They had a playoff and both scored 77. A sudden death playoff, ended on the second hole with **Hugh Kirkpatrick** the final winner.

The summary list is as follows:

- 1st low gross - **Hugh Kirkpatrick** 234
- 2nd low gross - **Bill Bowen** 234
- 1st net - **Bob Moote** 205
- 2nd net - **Kimmo Solonen** 208
- Associates
- 1st gross - **Doug Heron** 238
- 1st net - **Rod Hermitage** 211



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