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# "Green is Beautiful"

## Ontario Golf Superintendents Association

P.O. BOX 312, ETOBICOKE, ONTARIO M9C 4V3

TELEPHONE 622-9929



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**THOM CHARTERS**  
**SUPERINTENDENT**  
ISLINGTON GOLF CLUB  
1983 SUPERINTENDENT/PRO GOLF  
TOURNAMENT HOST

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# ONTARIO GOLF SUPERINTENDENTS ASSOCIATION

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# **EVENTS' 83**

## **OTRF Golf Tournament and Barbecue**

August 5 National Golf Club/Board of Trade Turf Care Centre

## **Joint Western/OGSA Meeting**

August 23 Beaverdale Golf Club

## **Best Ball Tournament**

October 12 Cherry Downs Golf Club

# New Members

- Peter Jones**-Barrie Country Club, Barrie  
**Robbie Robinson**-Hidden Lakes Golf & Country Club, Burlington  
**Manny Figueiredo**-Richview Golf & Country Club, Oakville  
**Roger Ince-Talbot**-Park Golf Club, St. Thomas Class A  
**Arthur Trumble**-Katchiwano Golf & Country Club, Lakefield Class A  
**John Lockie**-Lockwood Golf Club, Zephyr Class B  
**David Gurd**-Maple Ridge Golf & Country Club, London Class B  
**Howard Anyan**-Bowmanville Golf & Curling Club, Bowmanville Class B  
**Peter Creighton**-Castlemore Country Club, Brampton Class B  
**Joseph Hahn**-Delhi Golf Club, Delhi Class B  
**Lloyd Thatcher**-Victoria Park Golf Club, Guelph Class F  
**Gary Gravett**-Saugeen Golf Club, Port Elgin Class F  
**Tim Sherlock**-Chinguacousy Country Club, Inglewood Class F  
**Laser Sales**-George Mosier Sr. Class E  
**Robert Dixon**-Pine Crest Golf Club, Peterborough Class A

## WE NEED INFORMATION

It is the responsibility of the host Superintendent to submit an article containing scores, attendance and photographs, if possible, to the OGSA office of a tournament or meeting held at his club. If this is done, all members and regions will be represented in our newsletter.

# NEW MEMBER POSTINGS

- |  |         |
|--|---------|
| Bruce Jones, Belleville Golf & Country Club, Belleville        | Class A |
| John McCallum, Strathroy Golf Club, Strathroy                  | Class B |
| William Kivi, Glenview Golf & Country Club, Petrolia           | Class B |
| Dave Suter, Richview Golf & Country Club, Oakville             | Class B |
| Bernie Martin, Muskoka Lakes Golf & Country Club, Port Carling | Class F |
| R.T. Pattinson, London Hunt Golf & Country Club, London        | Class F |

If any member has any objection to the above persons applying for membership in the Ontario Golf Superintendents Association the Secretary must be notified in writing within 30 days.

# WEATHER IN REVIEW

	March	April	May	June
Average Daily Low Temperature	-2.5 C	1.4 C	5.3 C	12 C
Average Daily High Temperature	4.8 C	10 C	15 C	25 C
Mean Temperature	1.2 C	5.7 C	10.3 C	19 C
Normal Temperature	.8 C	7.5 C	13.6 C	19 C
Precipitation	58 mm	86 mm	113 mm	15 mm

Environment Canada  
 Toronto International Airport

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# SPRING MEETING IN WINDSOR

by Ron Heeson

The joint meeting of the OGSA and the Michigan Border Cities was well attended. Over 80 Superintendents were on hand and were immediately greeted by a warm 70° plus Windsor day. Despite our up and down weather conditions, Randy Hooper had the Roseland links in superb condition. It was hard to imagine that just over a week earlier we had 2 inches of snow! Randy deserves a lot of credit for producing the course that he did. His rolling greens were as fast as ever and required great skill to putt on.

The golf match that was set up between the Americans and Canadians was unfortunately won by the American team. Windsor's Ray Manion of Seven Tee Golf Centre took the individual low gross honors.

After golf we were treated to a fine prime-rib dinner, which followed what

seemed like a long happy hour. Moe Van Sickle of Labbat's Breweries was on hand and made sure that everyone had their share of free beer donated from his company. The happy hour always seems to produce a lot of discussion. The meeting was especially beneficial for this alone. Where else could you bump into people like Joe Vargas from Michigan State University, or Clarence Wolf from Sr., still a strong Superintendent at 85 years of age!

The meeting did not end at dinner either. After dinner we heard some excellent talks on safety on the golf course.

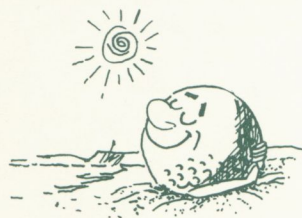
Dan Uzelac of Dominion Golf Club in Windsor opened the session by welcoming everyone, especially our American friends whom he immediately made feel right at home. Ken Debusscher, Tom Masen, and Martin

Miller from Michigan and our own Randy Hooper (as if he didn't have enough to do) all gave excellent talks on safety. The speakers all were very good, and suprisingly their talks did not overlap each other and something could be gained from each. Pamphlets and brochures containing the facts on pesticide and safety regulations were handed out as well.

After a short address, the meeting was closed by Michigan president Bruce Wolf from. I kept my eyes on his father, Clarence, and sure enough his eyes were still wide open and he was still chatting up a storm. Using this as an indicator, I felt the meeting was excellent. For those who couldn't make it, don't forget to mark your calendar for next year, because this is a meeting you don't want to miss.

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## O.G.S.A. / SOUTHWESTERN MEETING



On May 24 John O'Rae of St. Clair Parkway in Mooretown hosted a joint meeting of the OGSA and the Southwestern Superintendents Association. A total of 30 Superintendents and suppliers turned out on this rare warm sunny day. John Had his course in top condition as Ted Ellis of Greenwood Golf Club won with a low gross of 74. Low net was won by Matt Mayer of Holland Equipment followed by Al Hughs and Jerry Sterling both from Blue Water Golf Club. After dinner Laurie Wright, Parks Superintendent of St. Clair Parkway gave an informative talk on annual flower plantings and the Holland

Equipment demonstrated their fairway aeriator. Next meeting will be at Ridgetown Golf and Curling Club on June 22 hosted by Ted Eberle.



Ted Ellis, left, receives 1st prize from host Superintendent John O'Rae of St. Clair Parkway.

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### Dear Superintendent:

We need your **HELP!**

A fund raising letter from the Ontario Turfgrass Research Foundation has been sent to the President of your club along with a copy of "Turfgrass Research Annual Report". We would appreciate your assistance in urging your President and Greenschairman to support the Foundation. the many projects which have been undertaken in the past as well the new ones being initiated require considerable funding. Solicitation of funds from golf clubs in Ontario will only be through the Ontario Trufgrass Research Foundation as an agreement to this effect has been formulated with the Canadian Turfgrass Research Foundation.

Thank you in advance for your anticipated support of this worthy undertaking.

Yours sincerely,

Paul Dermott  
President

# EL NINO: WEATHER SCOURGE SWEEPS GLOBE

by Stephen Strauss

A year's worth of bad weather for the world is turning out to be good news for meteorologists and oceanographers.

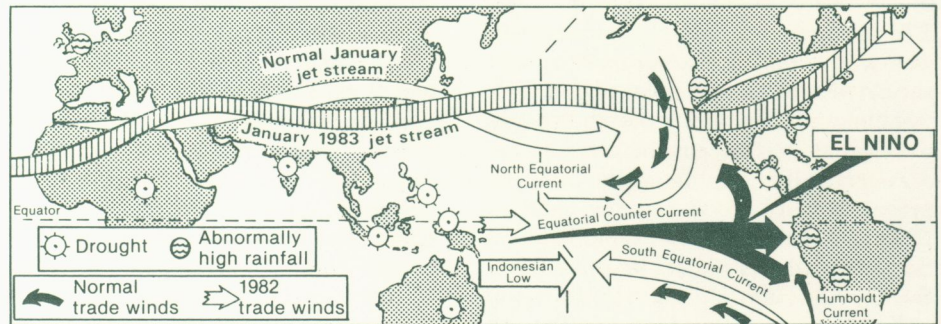
Australians were parched under a record drought in January and Ecuador reeled from rains which in May were 15 times heavier than normal. A high-altitude wind current called the jet stream was diverted south from its normal path into a huge arc that crossed northern Mexico and the U.S. Gulf states — which were inundated with floods — before it swept up toward the Maritimes. The diverted jet stream caused havoc with the weather everywhere it went. Meanwhile, in southern Africa, grain must be imported to feed its hungry populations because of drought. However, there is some brightness out of all the gloom: weather scientists have got a chance to test their computer models of El Nino, a warm ocean current that usually reaches the coasts of Peru and Ecuador once every three to six years. It is this current (because it can raise temperatures above normal) they believe is the culprit for a year of "worst" weather around the globe.

The result of their research has been an increasing belief that by the time the next El Nino rolls around meteorologists will be able to predict it months ahead and suggest world weather patterns which will be associated with it. That is important because many scientists are convinced the currents have dramatically affected the weather in both the Northern and Southern Hemispheres.

The condition which traditionally had been recorded in Peru and Ecuador in December or January, is called El Nino (The Child) in Spanish in reference to its appearance near to Christmas, the birthday of Christ.

But even as they show increased confidence in predicting when another El Nino will occur, scientists are still unsure how the approximately year-long weather pattern is born.

El Nino usually is associated with a drop in the prevailing easterly trade winds near the international dateline and the appearance of hot air systems (areas of low pressure called Southern Oscillations) moving eastward from



Indonesia.

Dr. Kikuro Miyakoda, head of Princeton University's Geophysical Fluid Dynamics Laboratory, says the drop of the easterly trade winds (in fact, this time they died out and a westerly wind blew) allows the formation of a Kelvin wave, a giant underwater billow of warm water — El Nino, with the equatorial counter current following in its wake — which then rolls toward the coast of South America. This wave takes 2 1/2 months to reach an area off the coast of Peru. In its most recent incarnation, it has raised water levels as much as 30 centimetres (about 10 inches) en route.

When it reaches the coast of South America, El Nino — now a large pool of warm water — traditionally has been associated with torrential rains and a dramatic decrease in the number of fish caught in the Humboldt current — one of the world's most productive fishing grounds. Scientists believe the fish die because the warm El Nino water covers cold waters which usually bring bottom-dwelling nutrients to the sea's surface.

This year's El Nino has proved a special puzzle for scientists. It appeared six months earlier than usual, was huge (covering an area as large as Canada), showed astonishingly high increases in sea temperatures (as much as 5 degrees Celsius in some locations), is lasting beyond its normal duration, and created some completely unexpected weather patterns.

One reaction to the year of "worst" weather has been the birth of a worldwide El Nino watch called TOGA (Tropical Ocean and Global Atmosphere) projects under the auspices of the World Meteorological Organization. Pierre Morel, director of

the World Climate Research Program in Geneva, said that he estimated at least 20 nations will join in monitoring future El Nino effects.

As part of their TOGA effort, scientists at Oregon State University in Corvallis will put into operation some time next year a new computer-modeling system which will for the first time marry El Nino-type atmospheric conditions with sea temperatures and ocean-current changes.

Scientists with Environment Canada's climate centre in Toronto have also been able to computer-correlate a clear relationship between an El Nino condition and changes in weather in the Southern Hemisphere.

Because an El Nino usually has the strongest effects in winter, it is not clear whether recent flooding in Europe is a result of the phenomenon.

What excited scientists everywhere is the sense that the El Nino effect is something which particularly lends itself to computerized prediction.

These future predictions are of no consolation to Hermano Moreano, head of the marine science division of the ecuadorian navy's oceanographic institute in Guayaquil. He says that temperature remains 5 C above normal and that his country has received 325 centimetres (128 inches) of rain since last October. The fishing is terrible; his country's crops are rotting in the fields, and this year's El Nino shows no sign of diminishing.

"If you in North America have some idea of when this is going to stop, please let us know," he pleaded in a telephone interview.

Credit: The Globe and Mail  
June 2, 1983

# GALT FIELD DAY

June 9, 1983

This event is becoming so popular that it is hard to limit the numbers to the requested 88 golfers. As a result, over 100 were accepted and the pace of play was well within the acceptable time it should take to play 18 holes of golf. The weather and the condition of the course were great as is always the case.

A highlight of the event was a presentation of a golf bag and clubs to Clay Switzer from the Ontario Golf Superintendents Association. Dean Switzer has been a great help to many golf course superintendents and the golf course industry for over a decade.



Clay Switzer accepting a plaque, a set of golf clubs, an OGSA golf shirt and a dozen or so golf balls from Past President Bob Brewster on behalf of the members of the Ontario Golf Superintendents Association.

O.G.A.'s President G. William Winter of Sunningdale presented a check of \$300 to the top student in the Turf Managers Short course at the University of Guelph. The 1983 winner was Brian Gouthro.

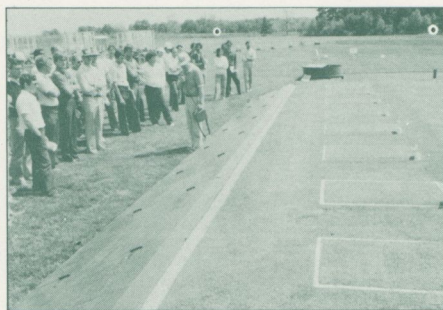
Stew Picken and Blake McMaster of region 1 won the Clayton Switzer Trophy.

Other low scores for the day were:

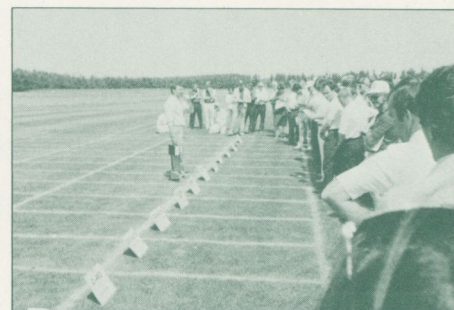
Bruce Burger, Dalewood, with a 73; Bruce Vollett, Conestoga, 75; Warren Vout, Whitevale, 77; and Bill Bowen, Peterborough, 78.



Clay Switzer presents the Clayton Switzer Trophy to the low net team winners of Blake McMaster and Stew Picken at the Galt Field Day



Professor Sheard explains how his apparatus for measuring water and nutrient infiltration and loss operates.



Professor Lee Burpee lecturing on turf diseases at the Cambridge Turf Research Station.

## 10 YEARS AGO TO-DAY

The directors of the O.G.S.A. in 1973 were Jim Wyllie (Pres.), Bob Heron (Vice Pres.), Ross Haines (Sec.), Paul Dermott (Tres.), Al Beeney, Ed Charman, Roy French, Bob Hall, Whitey Jones, John Stoughton, and Bill Hynd (Past Pres.).

The 3rd Annual Turf Symposium was held on January 4 at Northwood G.C. Keith Nesbit, president of the O.G.A. and Dr. Jack Eggens, University of Guelph professor chaired the sessions. Dennis Pellrene (Glen Abbey), Leslie Kelly (Royal Ottawa), Bob Moote (Oakdale), George Darou (Richmond Hill), Bob Heron (Markland Woods), Cameron Cairncross (Foxwood), Dave Moote (Essex), Al Beeney (North Halton), Rusty Warkman (Stratford), Charles Behm (Cherry Hills), Barret Muir (Shanty Bay), Ross Haines (Brampton), Robert Lamb (Summit), Bob Hall (Toronto Ladies), John Piccolo (St. Catherines), Paul Scenna (Galt) and Gord Witteveen (Northwood) kept everybody informed on the latest developments in turfgrass

maintenance.

Gord Witteveen was elected director of the GCSAA at the annual meeting held in Boston Mass. Paul White, Superintendent at Kanawaki Golf Club in Montreal moved to Glendale G.C. Cameron Cairncross was the successful applicant for the head position at the Summit G.C. Rusty Warkman from Stratford G.C. accepted the position of Superintendent at Oshawa G.C. Ron Allen and Bob French were recipients of scholarships from the Turf Management Short Course. Art Dodson, Dave Gourlay and Jim Wyllie became GCSAA certified Superintendents. The RCGA Turfgrass Conference was held in Montreal on March 4th-8th. Dave Gourlay was elected President of the CGSA at the annual meeting. Gord Witteveen and Bob Hall accepted new positions at the Board of Trade G.C. and Toronto Ladies G.C. respectively. New member applications were received by Ray Grinikis (Pleasant Valley Golf Club) and Ken Nelson (Sunningdale Golf Club). Morley

Findlay of the London Hunt passed away from a heart attack following an operation. Tom Lewis of Kawartha received the 25 year award of a lapel pin from the GCSAA. Charlie Muylaert was busy with the new construction on the old Pine Valley Course. The new course will be called the PGA National. Glen Abbey in Oakville was rumoured in the papers to have been purchased by the Skyline Hotel and Jack Nicklaus was hired to redesign the complete golf course.

The Greens Chairman/Superintendent Tournament was held on July 20 at Brampton Golf Club. The team of Paul Scenna and Sandy Forbes (greens chairman) earned the top honors for the day. The Pro/Superintendent Tournament was held on August 31 at Markland Woods. Low gross Super was Jack Harris from Ancaster G.C. and low pro was Bob Rose from Beverley. The low gross team was Bill Bowen and his pro from Peterborough G.C. and the low net team was Paul Dermott and Pro Jim McKitterick from Islington G.C.

# SUPERINTENDENT - PRO GOLF TOURNAMENT

June 24

**Islington Golf Club Host : Thom Charters**

<b>Low Gross Team</b>	National Golf Club	Ken Wright & Ben Kern	154
<b>2nd</b>	Conestoga Golf Club	Bruce Vollett & Ron Silver	157
<b>3rd</b>	Hidden Lakes Golf Club	Robbie Robinson & George Tidd	158
<b>Low Net Team</b>	Uplands Golf Club	Ted Tom & Dave Cross	184
<b>2nd</b>	Scarboro	Dennis Pelereene & Ken Fulton	148
<b>3rd</b>	Meadowbrook Golf Club	John Cunningham & Mel Taylor	148
<b>Low Gross Pro</b>	Ken Fulton		72
<b>2nd</b>	Gar Vasey, Ben Kearns, Ken Duggan		73
<b>Low Gross Super</b>	Robbie Robinson		78
<b>2nd</b>	Thom Charters		79
<b>Low Net Super</b>	Don Krimble		70
<b>2nd</b>	Bill Hynd		71

**Super closest to the hole no. 4**

**Pro closest to the hole no. 10**

Blake McMaster Brampton Golf Club  
Dudley Jones Lampton Golf Club

(closest to the hole winners have the use of a Yamaha golf cart for one month - courtesy of Ron Craig, Turf Care)

Congratulations Thom for having the course in such great shape.

Mr. Rusty Warkman,  
President,  
Ontario Golf Course  
Superintendents Association,  
62 Alonna St.,  
Bowmanville, Ontario.  
L1C 3P8

Dear Rusty:

I am not sure that I really properly expressed my gratitude to you and the other members of the OGSA for honoring me at the dinner last week. I knew, of course, that the decision had been made to put my name on the trophy to be given to the winner of the golf event, but I had no idea about the other items! The presentation of the golf clubs, balls, plaque and shirt came as a complete surprise.

I want you to know how deeply honoured I feel that the OGSA saw fit to recognize whatever contributions I may have made. It certainly gives one a wonderful feeling to have a group such as yours publicly recognize one's contributions even though I really am not sure that the contributions warranted such recognition! In any event, as I said the other night, I assure you and your colleagues that I will do whatever I can in the future to help promote the value of the turfgrass and golf industries in this province. Again, my thanks.

Yours very truly,

C.M. Switzer,  
Dean, OAC



Keith Nesbit presenting Robbie Robinson with Keith Nesbit Trophy as the the low gross Superintendent at the Superintendent - Pro tournament

**BORN LOSER**



# 10TH ANNUAL PRESIDENT, GREENS CHAIRMAN, SUPERINTENDENT TOURNAMENT

It was definately another cart and caddy day. With the temperatures hitting the thirsty thirties by mid-morning, everybody new that it was not one of those days to run around the golf course. Even our cart was sluggish and it only seemed to pick-up speed after we putted out on the last green and were heading for the showers and the bar. Thirty-five teams participated this year and the team from Brampton Golf Club of Blake McMaster, Ann Edgar and Marvyn Hall with scores of 83, 85,83 rose to the top. Rod Trainor and his team from St. Thomas finished second.

Paul Dermott from Oakdale Golf Club received the Presidents Award for his contributions to the Ontario Golf Superintendents Association, the Ontario Turfgrass Research Foundation and the golf industry in general. Andy Bertoni once again rose to the occasion and delivered an informative talk laced

with humor as only Andy can do.

Fifteen minutes after we had finished, Essex was hit with a tremendous thunder storm. From the pro shop you could see branches, twigs and ponds everywhere. I knew Bill was in trouble when I saw an out of bounds stake float down No. 6 fairway. You could tell Bill was taking all this in stride as it is quite common to receive over 3" of rain in an hour from these summer storms in this area. Storms like this we don't need and when I returned to my course in the early hours of Tuesday morning I was

pleased that we had missed the storm and that my night waterman was busy watering greens and tees.

Bill Fach received a plaque for hosting the tournament and having everything in top shape. I think that everybody was pleased to see that the he cut down the U.S. Open type rough which had bordered his fairways a couple of weeks ago when Essex hosted the Essex International Golf Classic.

The winning teams were as follows;

1st	<b>Blake McMaster</b> - Brampton Golf Club	105 points
2nd	<b>Rod Trainor</b> - St. Thomas Golf Club	104 points
3rd	<b>Bob Heron</b> - Mississauga Golf Club	103 points
4th	<b>Shorty Jenkins</b> - Bay of Quinte Golf Club	101 points
5th	<b>Paul Scenna</b> - Galt Country Club	
6th	<b>Graham Shouldice</b> - London Highland Golf Club	
7th	<b>Randy Hooper</b> - Roseland Golf Club	



President, Greenschairman, Superintendent Tournament winners: Blake McMaster, Ann Edgar, Marvyn Hall



Second place team of Rod Trainor, Mr. Doherty and Jim Waite accepting prizes from Paul Scenna

## TORNADO HITS DOON VALLEY GOLF COURSE

May 2, 1983

At 3 p.m. May 2, 1983 a twister with heavy winds hit Doon Valley Golf Course causing some damage to the Club House and maintenance building. The main damage was done to the golf course itself. 183 trees were torn

completley out of the ground or tops or branches were broken off throughout the golf course. Clean-up commenced May 3, 1983 and within 3 weeks most of the trees were cut-up and hauled away. From the 138 trees damaged we

hope that we have saved about 45 trees by pulling them back up and staking them. It took one week pulling up stumps with a front end loader and we are now back to regular maintenance of the golf course.



# CHEMICAL CONTROL OF ANTHRACNOSE ON ANNUAL BLUEGRASS

L.L. Burpee and L.G. Gouly

Fungicides were evaluated for control of anthracnose on annual bluegrass (*Poa annua* L.) on a golf course fairway at the Burlington Golf Club, Burlington, Ontario.

## RESEARCH PROCEDURE

The experimental design consisted of a randomized complete block design with four replications. Twelve fungicide treatments, one wetting agent, and a non-treated control were included in each block. Each treatment plot measured 1 x 9 m. Fungicides were applied on July 2 and 15 in 7 L of water per 100m<sup>2</sup> with a wheel mounted compressed air boom sprayer at 30 psi

pressure. Applications were made before disease was observed. The wetting agent (Aquagrow) was applied July 2 and 15 and August 3 and 11. Disease incidence was recorded on August 3, 11 and 27 using the Horsfall-Barratt rating scale. Ratings were converted to percent disease using Elanco conversion tables.

## RESULTS

Disease incidence data are presented in Table 1. All fungicide treatments resulted in a significant reduction in disease. Aquagrow, applied at 118 mL/100 m<sup>2</sup>, had no significant effect on disease incidence.

Table 1. Influence of fungicides on the incidence of anthracnose on annual bluegrass.

Treatment	Rate (a.i./100m <sup>2</sup> )	Disease 1,2 Days After 2nd Application		
		19	27	43
Bayleton	14.2 g	0.0 a	0.0 a	0.0 a
Bayleton	28.4 g	0.0 a	0.0 a	0.0 a
CGA 64250	4.0 g	0.0 a	0.0 a	2.3 ab
CGA 64250	8.0 g	0.0 a	0.0 a	0.8 ab
CGA 64251	4.0 g	0.0 a	0.0 a	2.3 ab
CGA 64251	8.0 g	0.0 a	0.3 ab	
Daconil 2787	85.1 g	0.0 a	0.0 a	0.0 a
EL222	3.5 g	0.0 a	0.8 a	3.1 b
EL222	7.0 g	0.0 a	0.0 a	2.3 ab
EL228	2.7 g	0.0 a	0.0 a	2.3 ab
EL228	3.4 g	0.0 a	0.0 a	2.3 ab
Tersan 1991	28.4 g	0.8 a	0.0 a	0.8 ab
Aquagrow <sup>3</sup>	118.3 mL*	9.4 b	9.4 b	10.9 c
Control		10.2 b	13.3 b	10.9 c

<sup>1</sup>Mean of four reps.

<sup>2</sup>Within a column, values followed by the same letter are not significantly different at P = 0.05 (Duncan's Multiple Range test).

<sup>3</sup>Four applications at approximately 14 d intervals

\* product/100 m<sup>2</sup>

# WEATHER-TIMED SPRAYS TO CONTROL DOLLAR SPOT ON CREEPING BENTGRASS

R. Hall

The objective of the research was to determine the effects of rainfall and air temperature on the severity of dollar spot (*Sclerotinia homoeocarpa*) on creeping bentgrass and to use this information to predict when fungicide should be applied to turf to control the disease. Such a predictive spray schedule could lead to fewer applications then called for in a regular spray schedule.

## RESEARCH PROCEDURE

An area of creeping bentgrass at the Cambridge Research Station was infested with the dollar spot fungus in July, 1979. The disease appeared on the turf each year since that time. In 1981 the number of dollar spots in four replicate plots was counted between May 1 and September 10. Each experimental plot was 1 m x 3 m. Weather records were obtained from the Waterloo-Wellington Airport located 1.4 miles (2.24 kilometres) from the plot area. From this information a rule was formulated to state the kinds of weather conditions that permitted dollar spot to develop. These periods of wet weather are referred to as an 'infection period'.

This rule was tested in 1982. One treatment received Tersan 1991 at 30 g

product per 100 m<sup>2</sup> on a regular schedule with sprays applied every 14 or 15 days between June 1 and September 7 for a total of 7 sprays. A second treatment received Tersan 1991 at the same rate immediately after infection periods that occurred July 17-18 and August 19-25, for a total of 2 sprays. These were referred to as weather-timed sprays. The third treatment consisted of unsprayed check plots. These were four replicate plots per treatment. Information on weather and the number of dollar spots per plot was obtained for the period May 1 to September 10.

## RESULTS

Step in decrease increase	Period of time covered by step	Additional spots per plot	Weather Preceding Step		Dates of infection period
			Consecutive rainy days	Average temperature (°C)	
1	June 1-23	1.5	3	17.4	June 12-14
2	June 23-July 3	5.7	4	15.7	June 19-22
3	July 3-15	11.8	5	21.1	July 1-5
4	July 15-Aug. 5	17.3	3	22.2	July 18-20
5	Aug. 5-26	130.9	2	21.9	Aug. 3-4
6	Aug. 26-Sept. 10	213.8	4	18.4	Aug. 27-30

Table 1. Influence of weather on dollar spot in 1981.

1981. Dollar spot was first recorded on June 23. The number of spots per

plot increased throughout the year to reach a maximum of 381 by September 10. The increase in disease severity occurred as six steps. Each step was preceded by two or more consecutive rainy days as shown in Table 1.

Single rainy days occurred on 10 occasions. Average daily temperatures on these days ranged from 13.4 to 22.8°C. None of these days was associated with an increase in disease. Two consecutive rainy days occurred 6 times. Average temperatures ranged from 8.0 to 21.9°C. An increase in disease followed only the latter period

(Step 5). Three consecutive rainy days occurred on 3 occasions. Steps 1 and 4 followed two of these occasions when average temperatures were 17.4 and 22.2°C, respectively. Cooler weather

(9.9°C) did not lead to increased rate of disease development. Four consecutive rainy days occurred three times. Average temperatures were 16.6, 15.7 and 18.4°C. Steps 2 and 6, respectively, followed the latter two periods of wet weather. The first period was followed by the occurrence of dollar spot outside the test plot area. Five consecutive rainy days occurred once (average temperature 21.1°C) and were followed by Step 3. Six consecutive rainy days occurred once (average temperature 20.5°C) and were associated with Step 6.

These results led to the rule that dollar spot would increase in severity after either (i) two consecutive rainy days if the average temperature for the period was 21.9°C or greater (ii) after three or more consecutive rainy days if the average temperature for the period was 15°C or greater.

Table 2. Influence of weather on dollar spot in 1982.

Step in decrease increase	Period of time covered by step	Additional spots per plot	Weather Preceding Step		Dates of infection period
			Consecutive rainy days	Average temperature (°C)	
1	July 20-Aug. 2	6.3	2	24.3	July 17-18
2	July 2-Aug. 20	48.5	3	19.5	Aug. 2-4
3	Aug. 20-Sept. 2	25.5	7	15.4	Aug. 19-25
4	Sept. 2-Sept. 4	7.5	4	11.7	Aug. 27-30
5	Sept. 4-10	9.7	2	16.4	Sept. 1-2

This rule was tested in 1982.

1982. Dollar spot was first recorded on July 26. The number of spots in the check plots rose to 97.7 by September 10. The disease increased in 5 steps as shown in Table 2.

The results matched the 1981 rule very closely, except that on one occasion two consecutive days of rain with a mean temperature of 16.4°C were followed by a small increase in the number of dollar spots (Step 5).

In plots sprayed on a regular schedule disease increased in 5 steps also but the steps were smaller (Table 3). The final number of spots per plot was 21.8, one-fifth the level of disease in the check plots. Disease development in plots receiving sprays only after infection periods 1 and 3 was essentially identical to that in plots receiving sprays on a regular schedule, with the final number of spots per plot being 22.2.

Step	Additional Spots Per Plot	
	Regular schedule (7 sprays)	Weather-timed schedule (2 sprays)
1	2.5	1.0
2	9.5	10.5
3	6.0	8.7
4	2.3	2.0
5	1.5	0
Total spots per plot	21.8	22.2

Table 3. Effect of regular and weather-timed sprays on dollar spot.

## CONCLUSION

Dollar spot on creeping bentgrass occurred and increased in severity after two consecutive rainy days if the average temperature for the period was 22°C or greater or after three or more consecutive rainy days if the average temperature for the period was 15°C or greater. These wet periods that promote dollar spot are called infection periods. Sprays applied only after infection periods were as effective in controlling the disease as sprays applied on a regular two-week schedule. Applying sprays according to observed weather data may lead to significant reductions in the number of fungicide applications and the cost of the dollar spot control program without decreasing the level of disease control obtained.

Credit: Turfgrass Research Annual Report Ontario Agricultural College University of Guelph

## THE GOLF COURSE SUPERINTENDENT AND SKIN CANCER

by Ray Richard

The profession of golf course superintendent carries with it many trying responsibilities and worries, particularly in the summer months. With long warm days in abundance, everything on your course is stressed, from the turf to your skin which is very susceptible to problems. The ultra-violet radiation that promotes photosynthesis in your grass plants also causes stress on the most important part of your course - namely YOU! The American Cancer Society reports that skin cancer is the most common of cancers and, with the exception of malignant melanoma which is a rare form of the disease, the overall cure rate is higher than 90 percent. More than 300,000 cases of

non-melanoma skin cancer will be reported this year.

Your outer skin protects your body by making it aware of injury and regulating body temperature. When this outer layer (epidermis) is exposed to the sun repeatedly, a skin thickening or keratosis will form. These areas are very susceptible to skin cancer. The American Cancer Society warns that golf course superintendents are a higher than average risk because of the long hours spent in the sun. Repeated contact with arsenicals also increases this risk.

Superintendents should be on the alert for any unusual skin condition they may notice. If any questions may arise, contact a physician as soon as possible, as time is very important and early diagnosis increases the possibilities of a cure. To avoid skin problems, follow the following rules:

- Avoid repeated over-exposure to the sun, especially between 10 a.m. and 3 p.m.

- Use a sunscreen preparation to absorb ultra-violet rays or,
- Use a sun-block preparation that will deflect ultra-violet rays
- Wear protective clothing such as long-sleeved shirts and wide brimmed hats

The key to saving lives from skin cancer is the early detection and adequate treatment of a skin abnormality. If you have any questions, contact the

Credit: New Hampshire Turf Talk



"AW... COME ON FRANK! JUST TAKE THE PENALTY STROKE!"

CARTOONIST - DEBRA PUGH

# O.D.H. AND O.D.A. STUDENTS GRADUATE FROM GUELPH

by Penny Clelland

Everyone enjoys a little pomp and circumstance. Spring Convocation 1983 easily fulfilled the expectations of University of Guelph correspondence students who travelled from across Canada to receive their Ontario Diplomas in Horticulture and Agriculture.

For the first time in the University's history, the various diploma candidates had their own convocation ceremony. For many it was a first time meeting with classmates and faculty. It was also the end of an era. The graduating class was presented by outgoing President Donald Forster, now president of the University of Toronto, to retiring Chancellor Pauline McGibbon, former Lieutenant-Governor of Ontario. This graduation was also the last for Clayton Switzer as Dean of Agriculture.

Forty-eight students graduated in the combined O.D.H. and O.D.A. class, the largest group in the 20 year history of the program. As in most university programs, female enrolment was up with 16 women in the class. A new tradition was established when the '83 grads wore collars over their gowns; green and gold for the O.D.H., tangerine and maize for the O.D.A.

The O.D.H. and O.D.A. programs are sponsored by the Ontario Ministry of Agriculture and Food and offered through Independent Study, a division of the University School of Part-time Studies and Continuing Education. At the evening banquet, School Director Mark Waldron congratulated O.D.H. Co-ordinator Harold Crawford on 25 years of valuable service to the University of Guelph. He also announced the selections of Independent Study Chairman Ted McNinch as the first recipient of the Norman High Award for contributions to the field of continuing education.

Outstanding students were honoured during the evening. Sunny Thomassen of Ottawa won the O.D.H. Graduates Association Award for highest standing



1983 O.D.H. graduates. Left to right, front row: Chester Staniec, Rodney Marley, Joan Toth, Lyn Colman, Lille Coulson, Cynthia Walsh, Sunny Thomassen, Barbara O'Connell, William Steed, Robert Bezaire. Back row: Larry Christian, Peter Gracey, Donald Russell, Joseph Wybenga, William Warbick, John Burrows, Clifford Turner, Allan Goddard, Peter Van Hoof, Frank Merran, John Van Den Engel.

over the three year program. Ms. Thomassen is the assistant manager of a florist business. Frank Merran, Toronto, an assistant golf course superintendent, won the Nursery Sod Growers Association Award. the Landscape Ontario Award went to Frances Morris, a food technician in Redbridge, Ontario.

During the banquet, the O.D.H. Graduates Association awarded Honorary Life Memberships. Through the efforts of Neil Campbell, the training program of the Kitchener Parks and Recreation Department hinges on the Ontario Diploma in Horticulture. Professor John Weall was honored for his influence on generations of horticulturists, including Independent Study faculty, Professors McNinch and Crawford.

The Graduates Association presented 2 cheques to Allen Paterson, Director of the Royal Botanical Gardens in Hamilton, \$500 of which is to be used as seed money in the development of a medicinal plant collection.

Expressing the sentiments of graduates, guests and faculty, Dr. Waldron called the day, "a celebration of scholarship, education and life."

## ESSEX INTERNATIONAL GOLF CLASSIC

by Ron Heesen

On June 27 to July 3, Essex Golf Club hosted the Essex International Golf Classic. The tournament is part of the new arm of the PGA tour, the Tournament Players Series. It consists of ten tournaments whose field will consist of leading tour members from the 40-50 age bracket, top finishers in leading competitions conducted by the PGA of America, as well, some excellent young golfers starting their careers on the tour.

All those involved with the tournament at Essex Golf Club deserve congratulations for the fine effort put on to host the tournament. The golf club itself decided to sponsor the tournament and hence its name. Credit is due also to Bill Fach, Essex's Superintendent. His golf course never looked better. Bill worked hard all spring preparing the course for the tournament. With only four months notice of the tournament, he had the course ready for a U.S. Open let the TPS tournament. The greens were as smooth as glass. Roughs

had been let go for the tournament and fertilized. Needless to say, the pro's were penalized every time they missed a fairway. The fairways were very tight and many were cut with triplex grassmowers. Besides the course work, a property adjacent the golf course was rented, where Bill hastily constructed a fine new driving range for the tournament players. It was a job well done, and the pros...not always known for praising a golf course, had nothing but good comments about the 6700 yd. Essex Golf Club.

The tournament was first class all the way, and first prize of \$36,000 U.S. went to our own Jim Nelford of B.C., who finished with a 273 total over the 4 rounds. Nelford was ecstatic about his victory, his on the tour, and wondered aloud why the Canadian Open wasn't held at Essex more often (Previously 1976).

Superintendents of Ontario can be proud of the superb showing of Bill Fach and his crew. Our hats go off to

you Bill for a job well done and the professionalism you exemplified throughout the tournament.

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