

DEC 15 1987

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"Green is Beautiful"

Ontario Golf Superintendents Association

P.O. BOX 203, ISLINGTON, ONTARIO M9A 4X2

TELEPHONE 233-8388



DECEMBER 1987

Season's Greetings

1988 OGSA
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THOM CHARTERS

WESTON GOLF &
COUNTRY CLUB





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CINDI CHARTERS

President's Report

The Ontario Golf Superintendents' Association has a distinguished history, due in part to the efforts of those who have served as President. I am proud to have the opportunity to contribute, in whatever way possible, as President in 1988. There are many challenges to be faced and I accept them, confident that the Board of Directors will work with me to further improve our Association. A number of specific goals have been established to give us the direction required to make this a reality.

First and foremost, communications must be improved. The membership will be better informed about the Directors' efforts, upcoming events and industry related news through more regular correspondence. An extra edition of 'Green is Beautiful' will be published in early 1988, the content of which will be directed at club officials and owners with the intent to identify and expand on some of the common dilemmas that face golf course superintendents. It is hoped that such an issue may be used to your advantage when dealing with to-days demanding golfers. We will be striving to improve our relations with other associations through correspondence and dialogue.

The Long Range Planning Committee will continue to explore issues that pertain to our future. They include expanding the symposium program, initiating a bi-annual member survey, future office options and the potential structuring of a members benefit plan.

The Canadian Turfgrass Conference and Show comes to Toronto in March, 1988 and we will be taking a very active role. We will be soliciting your assistance for various functions to insure that we are good hosts to our counterparts from around the country.

We are fortunate to have very capable individuals as Directors for 1988, but we will miss the input of Mr. Barry Endicott whose term has been completed. As Editor of the Newsletter, as President in 1986 and finally as Chairman of the Symposium and Long Range Planning Committee, Barry has given very freely of his time and we commend him for his significant contributions.

In closing, I urge you to participate in our functions, to refamiliarize yourself with our ethical standards (page 13 in the membership roster) and to register any suggestions or complaints that relate to the OGSA with a Director from your region. By doing so, you'll be doing your part to improve our Association.

On behalf of my fellow Directors, I extend to you our best wishes for a happy Holiday season and a prosperous New Year.

Thom Charters, President, 1988

From the Editor

They say all good things must come to an end at some point in time, and my tenure as editor of "Green is Beautiful" has come to that point. I truly enjoyed the responsibility and challenge experienced in producing the newsletter. The many hours spent over the typewriter were well worth it.

My duties brought me in contact with some very talented and interesting individuals. Mike and Ivor at CeeKay Graphics have provided excellent advice over the years. Their input and quality work must not be taken lightly. Also in this category falls Barry Endicott. His continued support has always been appreciated.

Ron Trainor, CGCS, has been selected to take over as Editor of "Green is Beautiful". I have assured Rod he will enjoy his new duties immensely, particularly if he gets the support of regular contributors. To encourage the membership to submit articles for publication, the OGSA Board of Directors has decided to initiate a competition awarding the best article contributed by an OGSA member. Get involved and help your association — it's to your benefit.

Neil Acton, CGCS

Congratulations ...

... to **Paul White** for securing the Glen Abbey position and to **Tom Murphy** for succeeding Paul at Lambton G.C.

New Members

Alex Dolensky — Idylwyde GC — Class B
Dave Aldous — Dominion GC — Class B

Annette Anderson
Turf Extension Specialist
Plant Industry Branch

Ministry of Agriculture and Food
Hort. Science Dept.
University of Guelph
Guelph, Ontario N1G 2W1
Telephone (519) 824-4120, Ext. 2597



Ontario

OGSA Spring Field Day

by Ron Heeson

This year's initial Spring Field Day for the Ontario Golf Superintendents Association was cancelled due to rain and was re-scheduled on August 27th in conjunction with the OTRF Turfgrass Research Field Day. The rains held off for this event; it turned out we had 87 golfers and I'm told over 300 at the Field Day at the Cambridge Turf Plots.

The format for the day was golf in the morning, lunch and afternoon spent at the turfplots followed by a reception and dinner at the Galt Country Club.

Bruce Burger had the course in super shape for the golf contestants. Winners of the Clay Switzer Trophy which goes to the two combined low net scores from the same region were Bill Bowen, 69 and John Anderson, 67. There were many other winners and prizes given out, and we would like to thank Duke Equipment, Turf Care Products, Nutrite, C.I.L. and Agturf Chemicals for making this event such a great success.

Also, the people of Galt CC, namely Mr. Tom Boa, Mr. Dave Wood, Mr. Robin Roberts, Mr. Albert Southgate and of course, Superintendent Bruce Burger.

The University of Guelph had a great display of research projects available for inspection, with topics ranging from Thatch Control in a Kentucky Bluegrass Homelawn to Dollarspot Control with Experimental Fungicides. Our thanks to all U of G personnel, especially for allowing us to combine our Spring Meeting with their already scheduled Field Day.

I would like to encourage everyone who missed this event to watch for it next year and make an effort to support your association.



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A Season of Change

by Rod Trainor

The 1987 season has seen many superintendents on the move. With many golf clubs advertising positions and many superintendents seeking new positions, we feel that it is our responsibility as Board of Directors to remind the membership of the "Code of Ethics". We hope you will take a few moments to read them so that when you are visiting or corresponding with another, you will do so correctly.

Ethical Standards of the Ontario Golf Superintendents Association

To insure that respect is accorded our profession, our Association and our individual members, these ethical standards are to be observed and practiced.

- Maintain courteous relations with your employer, employees, and fellow superintendents, while practicing sound business and turf management principles.
- Continue to broaden your knowledge through formal education channels and by exchanging experiences and ideas with fellow members.
- Endorse products or practices, only when completely satisfied, through personal experiences.
- Refrain from corresponding, either verbally or in writing, with a Director, member, or official of another club, regarding its affairs, without prior consent of that club's Superintendent.
- Apply only for a position that is vacant and, if possible, talk to the person who last held the job, or other local Superintendents.
- Offer employment to another club's employee only after advising that club's Superintendent.
- Contact the Superintendent of a club you are visiting, and, whenever possible, do so in advance.
- Misrepresenting this Association and yourself by loaning your membership card will not be condoned.
- It is the responsibility of each member to abide by these standards and to report any wilful violations to the Board of Directors in writing.
- Breach of these standards may result in the following disciplinary action: Posting — Suspension of Privileges — Termination of Membership.

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1988 OGSA Turfgrass Symposium ...

PETER CLARK HALL, UNIVERSITY OF GUELPH

Tuesday, January 5, 1988

- 8:00 am** Registration
Morning Session
Chairman
Neil Acton CGCS
- 9:30 am** Welcome by Dr. F.L.
McEwan,
Dean, Ontario
Agricultural College
- 9:40 am** President, OGSA
Thom Charters
- 9:45 am** Keynote Speaker —
Mr. Ross Smith
- 10:45 am** Break
- 11:15 am** Annette Anderson
"An Overview of Turf
Extension in 1987"
Dr. Lee Burpee,
University of Guelph
"Research Update"
- 12:15 pm** Lunch in Peter Clark
Hall
Afternoon Session
Chairman
Gord Nimmo, CGCS
- 1:30 pm** Tricks of the Trade
- 2:00 pm** Dr. Joe Vargas,
Michigan State
University
"The Black Layer plus
the Patch Disease
Syndrome"
- 3:00 pm** Break
- 3:20 pm** Legal Forum
Mr. Michael Kerr
"Contracts"
- 3:45 pm** Lucky Draw
(Winner must be
present to win)
Cocktail Hour with
Cash Bar

Wednesday, January 6, 1988

- 8:00 am** Coffee & Donuts
Morning Session
Chairman
Ron Heesen
- 8:30 am** Doug Mewett
"Regulations of
Pesticide Use in
Ontario"
- 9:00 am** Dr. Jack Eggens,
University of Guelph
"Turf Renovation
Practices"
- 9:30 am** Paul Dermott
OTRF Report
- 9:45 am** Brian McGarry
"Employee Relations"
- 10:15 am** Break
- 10:45 am** Norm McCollum
- 11:00 am** CGSA Report
- 11:15 am** New Construction
- Jim Molenhuis
- Ed Farnsworth
- Dave Gourlay
- John Arends
- 12:30 pm** Lunch in Peter Clark
Hall
- 2:00 pm** Dr. Watson,
The Toro Company
"Soil-Air-Water
Relationships"
- 3:00 pm** Lucky Draw
(Winner must be
present to win)

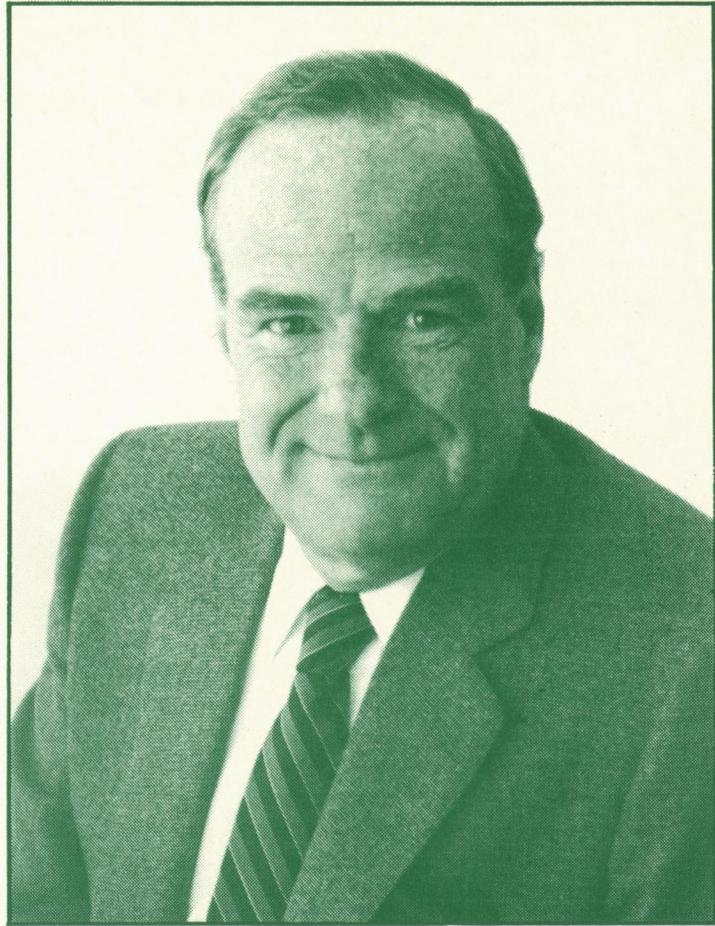
Registration

	OGSA MEMBER	NON- MEMBER
Pre-Registration	\$ 85.	\$100.
At The Door (limited)	\$115.	\$115.
Student	\$ 45.	

Deadline for Pre-Registration is December 28, 1987

Registration Includes: Coffee in the morning, during breaks as well as lunch both days.

1988 OGSA TURFGRASS SYMPOSIUM KEYNOTE SPEAKER



WILL THE REAL ROSS SMITH PLEASE STAND UP ...

It has been said that if Ross Smith jumped to his feet you'd be surrounded by a small group. He does not stand alone.

He is the President of a rather dynamic advertising agency serving a diverse list of accounts, which gives him a broad insight into many businesses.

He is a superb presenter and can relate to almost anybody's business after a short briefing.

Ross has also lived and worked in every Province across Canada and can reflect the subtleties of our different regions.

Ross is extremely well travelled and has spoken to such groups as pharmacists, appliance dealers, Rotary, shoemakers, Kiwanis, travel agents, direct-sellers, sales rallies and hundreds of conventions. He was recently engaged as the back-up speaker for Norman Vincent Peale in the event Mr. Peale could not appear.

Ross has produced narrated films, lectured at Universities, presented the world's best advertising at the annual Association of Canadian Advertiser's seminar for the past 10 years, syndicated his radio show across Canada, and performed comedy on stage. He plays tennis, rides horses over fences, swims and has been happily married to the same lovely lady for 37 years. He's 58 going on 19!

Quite a guy. Solid, productive, fun, warm, entertaining, intelligent, productive, filled with infectious energy and laughter.

Yet, a businessman who can take your 10 most important concerns and fit them into a 45 minute talk that will leave an audience feeling great about their products, their services, their company and themselves.

Let Ross Smith show you how to get a bigger piece of the pie by learning how to bring out the best in other people.

Superintendent-Pro Tournament

Kleinburg GC Host Superintendent — Dan Lavis

Low Gross Team	Horseshoe Valley	John Hughes, Gar Hamilton	150
Low Net Team	National	Ken Wright, Ben Kern	143
2nd Gross Team	Weston	Thom Charters, Herb Holscheiter	152
2nd Net Team	Brampton	Blake McMaster, John Henrick	146
3rd Gross Team	Oakville	George Garner, Bill Bevington	152
3rd Net Team	Beacon Hill	Dave Gourlay, Phil Hardy	146

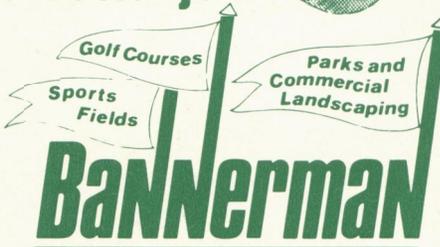


Low Gross Superintendent	Bruce Berger	77
Low Net Superintendent	Paul Dermott	69
2nd Gross Superintendent	Joe Kenny	78
2nd Net Superintendent	Bill Bowen	70
Low Professional	Greg Hickey	70
2nd Low Professional	Terry Miskolczi	72
3rd Low Professional	Bob Breen	73

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Colin Nisbet (l) presents Bruce Burger with Low Gross Superintendent award — Superintendent/Pro.



Ben Kern (l) presents Low Gross Team plaque to John Hughes (m) and Gar Hamilton (r).

5 Years Ago Today

by Barry Endicott

The Directors of the OGSA in 1982 were as follows: Bob Brewster (pres.), Rusty Warkman (vice), Ken Nelson (past pres.), Al Draper, Barry Endicott (editor), Bill Fach, Doug Hoskins, John Hutchinson, Bob Kennedy, Hugh Kirkpatrick, Paul Scenna and Tom Simpson.

The CGSA's 33rd Annual Turfgrass Conference and Show was held from March 7th to 10th at the Constellation Hotel. The GCSAA's International Turfgrass Conference and Show was held in New Orleans from January 28 to February 5. Jim Wyllie was elected as the GCSAA President.

The 1982 OGSA Management Symposium was held at the University of Guelph on January 5. 126 turfgrass growers attended and we heard presentations from the following Superintendents: Stewart Mills, Doug Rothwell, Gord Witteveen, Hugh Kirkpatrick and Bill Hynd.

New Members: Bill Kelly, Peel Village Golf Club; David Wray, Nanticoke G.C.; Al Stoyles, Fanshaw G.C.; Ron Heesen, Board of Trade G.C.; Tom Murphy, Lambton G.C.; John Allen, Thornhill C.C.; Michael Van Beck, Glen Abbey G.C.; Ben Harders, Saugeen G.C.; Keith Wills, Mt. Elgin G.C.; Stan Steip, Preston Sand and Gravel; Garry Hall, Six Foot Bay G.C.; Warren Vout, Whitevale G.C.; Paul Brown, Oshawa G.C.; Mike Donahue, J.L. Donahue Contracting; William Stevens, Lynn Meadows G.C.; Len Coward, Glen Lawrence G.C.; Ted Bouwhuis, Brockville C.C.; Ed Farnsworth, Deerhurst G.C.; Wayne Hall, Confederation C.C.; Doug Woods, Douglass Woods Large Tree Sales Ltd.; R. Sheard, Univ. of Guelph; Stephen Verrall, Cataraqi C.C.; Jim Honey, Warkworth G.C.; Alex LaBelle, Midland G.C.; David Gourlay, Hamilton G.C.; Norm McCullum, Univ. of Guelph; Bob Rivard and Mike Kahn, Lifflock Golfland; John Gall, Sault Ste. Marie G.C.; Steven Raymer, Newcastle G.C. and Bob Harwood, Westmount G.C.

Our membership totals were 159 Superintendents, 37 Associates, 12 Class F - assistants and 2 Class DD.

Jacobsen Division of Textron Inc. was pleased to welcome Ontario Turf Equipment Co. Ltd. as a new Jacobsen distributor. Bob Corbin was retiring after 17 years as Superintendent at Cataraqi Golf and Country Club. Bob has been in the business for 22 years where he started at the St. Catherines Golf Club. The following Superintendents were on the move: Warren Vout to Whitevale Golf Club; Doug Rothwell to the Royal Ottawa Golf Club; Dave Moote to Cypress Lakes, Ft. Myers; Bud Hooper to Coral Springs, Ft. Lauderdale; Steve Verrall to Cataraqi and Dennis Pellrene to Scarborough. Doug Nisbet, brother of Keith Nisbet, passed away after a lengthy illness at the age of 58. The OGSA welcomed Lee Burpee to the staff of the University of Guelph.

Thirty nine members attended a meeting at North Halton hosted by Al Beene on February 17. Curling followed the meeting and the team of Neil Acton, Bill Fach, Bernie MacDonald and Tom Murphy were the winners. There was a spring OGSA/WOGA joint meeting at the Whirlpool G.C. hosted by Bill Glashen. Low gross Superintendent was Hugh Kirkpatrick with a 77 and low net was Bill Glashen. Twenty-four Superintendents and guests teed it up at Dominion G.C. hosted by Dan Uzelac with the Ontario Superintendents team of Dan Ardley, 34; Paul Scenna, 37; Rick Cylka, 39 and Bruce Vollet, 41, winning with a total of 154. On June the 10th the Galt Field Day and Cambridge Turf Plots day was held. Participants from the University of Guelph were Bob Sheard, Jack Eggens, Lee Burpee, Bob Hall, Dennis Muir and Andrea McTear. Andi Bertoni was the evening guest speaker. Bill Bowen was low gross with a 72 and Keith Nisbet was low get with a 64. David Gourlay was low assistant with a 72. There was a Western Ontario meeting held at Greenhills on July 16 with Graham Shouldice winning low gross.

The OGSA NO-Stars took to the ice every Monday afternoon. It featured such stars as Bob (He Chops ... He Scores) Brewster, Long John Smith, Ken (Mr. Puck Control) Wright, Blake (We're winning by one) McMaster, Boom Boom Heron, Barry (One on One on One on One ...) Endicott, Paul (call me Dionne) Dermott, Bob (Mr. Dress-up) Cherry, Joe (Rib Cake) Allen, Brant (Flash) McCaffrey, Rompin' Ronnie Craig, Bob (Golden Wheels) Golden, Dave (Done like dinner) Dick, Gar Vasey, Ben Kern, Ken Quiggan, Kevin Brown, the Hayhoe Brothers and Brusin' Brucie Calhoun.

The President, Green Chairman and Superintendent Tournament was held at the London Hunt Country Club hosted by John Bennet. The team from Beaverdale led by Bob Labette won the tournament with London Hunt, John Bennet second and The Bay of Quinty, Shorly Jenkins coming in third.

The Ontario Turfgrass Research Foundation Tournament was held at the National Golf Club and the barbecue at the Board of Trade Country Club with \$7,500 donated to turfgrass research. Low net was Bob Ogilvie and low gross was Russ Howard.



Dave Gourlay (l) presents plaque to Dan Lavis, Host Superintendent — Superintendent/Pro.

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The Superintendent/Pro Tournament was held at Weston Golf Club hosted by Bob Brewster. First low gross team was Ron Silver and Bruce Vollet, second was Ben Kern and Ken Wright and third was John Davis and Steve Miller. Low Superintendent was Bruce Vollet.

The Ontario team of Blake McMaster, Hugh Kirkpatrick, Bruce Berger and Dennis Pellreone won the Quebec Golf Superintendents Trophy at the CGSA Fall Field Day at the Elm Ridge Country Club Ile Bizard Que. The McClumpha Tournament was held at Aurora Highlands Golf Club hosted by Paul Dodson on Monday the 4th. Kimmo Solonen was low net with a 68 and Hugh Kirkpatrick was low gross with a 78. Whitey Jones won the senior trophy with a 93 and the low assistant was Dave Gourlay with a 77. On October 15 there was a best ball tournament held at the Oshawa Golf Club hosted by Rusty Warkman. The winning team was Paul White and Hugh Kirkpatrick. The Christmas party was held at the Galt Country Club on December 3rd hosted by Paul and Dianne Scenna.

W.O.G.S.A. Report

by John Taylor

The August meeting of the Western Ontario Golf Superintendents Association was held on Thursday August 20th, 1987, at Victoria Park Golf Club in Guelph. Scott Dodson hosted a lengthy meeting with the conclusion being that the hottest summer since 1955 has made things tough all over.

Forty-two golfers tackled host Carmen Decorso's challenging layout, and when it was over, Wayne Rath, the Assistant Superintendent at Credit Valley was the low gross winner, with a fine score of 73. The low net winner was Joe Kenny from Oaklands Golf Club with 71.

Thanks to Peter Buckley, CIL; Scott Richmond, Hutchison Sands; Larry Allen, All-Turf; Corrie Almack, Soil Smith; Ted Hartwell, Hartwell Irrigation; Abe Fast, South Niagara Orchards; George Kaputsky, Duke Lawn Equipment; Dick Gordon, OMC; Ann Witteveen, Nutrite; and Graham Wilkinson, Agrow, for their prize donations, and to Carmen Decorso for an excellent meal and a great day.



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GCSAA News

GOLF COURSE MAINTENANCE INDUSTRY EXCEEDS \$3 BILLION

According to the new 1987 edition of the *Golf Course Maintenance Report*, the estimated annual worth of the golf course maintenance industry in the United States today is \$3.54 billion. This figure includes the cost of labor, equipment and supplies needed to maintain the 1.2 million acres of land occupied by the nation's 12,384 golf facilities.

The 80-page report, developed from a survey conducted in late 1986, was co-produced by the Golf Course Superintendents Association of America (GCSAA) and the National Golf Foundation (NGF).

The new report supersedes a less comprehensive 25-page joint study report done in 1985.

"We feel that this year's expanded report provides valuable information not available through any other source in the golf course and turfgrass industries," says Donald E. Hearn, CGCS, GCSAA president.

"The golf course superintendent is a vital person in the golf industry and plays a crucial role in main-

taining the nation's golf courses so they are enjoyable for the 20.2 million U.S. golfers," says NGF President David B. Hueber. "And the NGF is proud to have been part of this all-important study."

The 1987 report is broken out into nine geographic regions and by the public and private facilities within those regions. It covers irrigation sources, expenses, labor hours and wages, golf car fleet size and maintenance costs, environmental conditions and professional responsibilities for each region.

The information was collected through a 10-page survey instrument sent to golf course superintendents throughout the United States in November 1986. The information is presented in a manner that allows superintendents to make a comparative analysis of their operations with others within their region.

"Golf course superintendents and others involved in the maintenance of the nation's golf courses will find the information contained in this report to be useful in determining the factors that make their golf courses unique from others in their region," Hearn says.

A two-page summary of the *Golf Course Maintenance Report* is available from both the GCSAA and NGF at no charge. The complete report sells for \$90.

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— Bob Heron, course superintendent, **Mississauga Golf and Country Club, Mississauga, Ontario, Canada.**

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The Irrigation Computer Age

The Ontario irrigation industry has taken a giant step over the past year with the installation of a couple of Toro Network 8000 Control Systems. Who needs it, you ask? We in the industry certainly agree that an upgraded control system is not for everyone. However, we also feel that many superintendents and their golf courses would benefit from the exacting controls the system offers. Our largest problem from a sales standpoint is the "who needs it, my system runs fine" comment, which is tough to argue against. Most automatic sprinkler systems *do* an adequate job of watering, and under the proper controls of the superintendent the golf course receives adequate water. If you are one of the "not for me" people out there, answer yes to any of these questions and there is hope yet!

- *Would you benefit from being able to alter watering times from the central?*

On a standard system, either the superintendent or a valued assistant has to move from satellite box to satellite box to alter station time. As a result, frequently the station times are left the same throughout the season. Differing water needs on the golf course along with seasonal changes in plant needs should *dictate* watering time.

- *Would you benefit from utilizing a "water budget" feature?*

Water budget is a feature which allows the superintendent to alter station run time by simply raising or lowering a percentage of 100. You can do this for the complete system, or by program, or by satellite, or by groups (greens only, trees only), or by individual station.

- *Would the ability to make pumps operate at peak efficiency be of value?*

Toro's Network 8000 provides flow information and graphs for any program. Rather than having an 8000 GPM pump package run at an average of 500 GPM over ten hours, we can demand its maximum output and reduce pump run time considerably.

- *Would there be a benefit associated with not being stuck with "station sequence"?*

Current systems have a pre-determined watering sequence. With an upgraded control system you choose which station follows what. If you want to water nothing but approaches to greens, no problem.

- *Would there be a benefit to having a weather station hook-up at the golf course?*

Complete 24 hour records on rainfall, E.T., humidity, wind speed, temperature can be used in determining watering time. This feature can obviously be used in making other pertinent decisions relating to chemical use, etc.

- *Would there be any benefit to having a computer to run the "business" part of being a superintendent?*

Accurate records, filed and presented properly would have to be of value. The computer is available for "other" uses even during an irrigation cycle.

Sold yet? Many other factors not easily explained in an article would favour a computer systems' benefit to your course management.

They retrofit to existing systems (electric or hydraulic). The Network 8000 will not require complete reconstruction to install, and the cost is not prohibitive.

In summary, the irrigation computer age is **here**, not several years away. With increased demands on your skills in growing grass, the Network 8000 provides increased control and flexibility to allow the watering system to keep pace.



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"HARVESTS" HIGHLIGHTS

EFFECT OF SURFACTANTS ON KENTUCKY BLUEGRASS EVAPOTRANSPIRATION

M J Carroll and A M Petrovic
New York, United States - pages 381 - 389

The authors noted that:

- AquaGrow, Hydrowet and Pene-turf did not reduce Kentucky bluegrass evapotranspiration or total resistance to water flow under controlled environmental chamber conditions.
- Pene-turf did not alter the unsaturated hydraulic conductivity of a fine sandy loam soil. It did reduce the amount of available water held by the soil by 9 percent.
- These results indicate that if a reduction in evapotranspiration occurred from field application of surfactants, this would not be of a consequence of elevated liquid water flow resistances within the plant.

THE EFFECTS OF SAND TOPDRESSING ON A HEAVILY THATCHED CREEPING BENTGRASS TURF

T W Fermanian, J E Haley and R E Burns
Illinois, United States - pages 439 - 448

The results of this study are summarized as follows:

- Sand topdressing programs involve the application of 100 percent sand to the surface of the turf on a routine basis throughout the year.
- With Washington creeping bentgrass putting green turf topdressed for three years with different materials and rates of application, no consistent differences were noted.
- Each topdressing program was better than the non-topdressed control.
- Topdressing increased dollar spot infection to some degree.
- Pure sand materials were equally effective in reducing the negative effects of thatch in the upper profile of the green.

COUNTERING ADVERSE CHANGES IN SURFACE SOIL TEXTURE RESULTING FROM TURF GROWTH

G W Davison
Luton, England - pages 417 - 425

An abstract of research results demonstrate that:

- Significant changes occur in the texture of the top-soil of established sports turf in addition to variations in soil structure and the development of thatch.
- All three of these factors — texture, structure and thatch — affect the gravitational movement of water through the rootzone.
- Changes that take place must be corrected. This involves the introduction of calculated quantities of carefully selected new materials in order to readjust the particle size distribution.

PERFORMANCE OF COOL SEASON TURFGRASS IN MIXTURE UNDER REDUCED MAINTENANCE

J S Ebdon and C R Skogley
Rhode Island, United States - pages 275 - 283

It was concluded that:

- Low maintenance turf often depends on the ability of perennial ryegrasses and red fescues to dominate the Kentucky bluegrass varieties.
- Over a period of years, no Kentucky bluegrasses were competitive with perennial ryegrasses or red fescues grown under reduced levels of maintenance.
- When less aggressive perennial ryegrasses and smaller quantities of seed are used in mixtures with Kentucky bluegrass, a better quality of turf was noted after three years of low maintenance.

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and a
Happy New Year
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