

## PRESIDENT'S MESSAGE

Believe it or not, a new year of society activities is about to begin.

John, Tom, Owen, Peter, Don, and I attended a very interesting CRC in Windsor in preparation for the coming year.

During the CRC business session, I presented the London Chapter goals which will focus on Communication and Education as follows:

- improve internal communication through a revamped newsletter
- improve external communication through the expanded distribution of the chapter newsletter and timely reporting of chapter activities to regional and society officers
- improve the educational aspects of our chapter meetings through the continuation and strengthening of our technical sessions
- promote continuing education through the sponsoring of at least one technical seminar
- promote awareness of ASHRAE and the London Chapter through the formalization of relationships with local professional groups, and pursue programs which have common goals, such as the promotion of Math and Science education and ultimately the Engineering profession

It is critically important that the chapter and society serve the needs of the membership. If you have any ideas on how we can improve our operation, would you please contact me or any member of the Board of Governors.

See you on September 30.

Darryl K. Boyce

## The Month's Topic: WATER SUPPLY STUDY OF THE CITY OF LONDON

The Ministry of the Environment hired M.M. Dillon Limited to undertake a class environmental assessment on the above topic in early 1990. The study was intended to define London's needs to 2011 and identify the work necessary to provide the city with a reliable water supply for the next twenty years. Early on in the study, it became obvious that London was in urgent need of water and the focus changed from long-term investigation to addressing the immediate short-term requirements of London - both capacity and security.

Roland Walker will present the information which led to these conclusions and discuss the recommended solution. Roland received his undergraduate degree and master's degree in environmental engineering from University of Windsor.

Roland has worked for M.M. Dillon in London, Ontario and Edmonton, Alberta for 15 years. For the last ten years, he has been involved in water supply systems and water treatment plants. In addition to the London water supply study, Roland is also responsible for the design and construction of the Mannheim Water Treatment Plant for the Regional Municipality of Waterloo. (approximate construction value - \$40 million)

### NEW NEWSLETTER

Chapter past president's never die, they just get recycled. Last spring Darryl asked me to volunteer for one of two positions: Research & Promotion Chairman or Newsletter Chairman. It's history now. Grant Hilliard did an excellent job for Research & Promotion. Through his efforts and the many investors, our chapter was number one for Region II. Through MBO, I will, with your help, meet one of our chapter goals, that is, to "improve internal communication through a revamped newsletter." We will not be using ABCO Copy Cat this year, but will produce it at the university at cost, and using volunteers for folding, stuffing, making labels, licking stamps, and some typing. We hope you will like the new format, and in particular, the content, and would welcome your constructive comments. Please note that the address on the front of the Newsletter, is the mailing address of Chapter, and not the mailing address of the Newsletter. The Newsletter address is found only on the return address portion of the envelope.

D.M.R. Johnson

## OTHER HIGHLIGHTS FROM CRC

The Windsor Chapter hosted an excellent CRC which was held at the Hilton. Many of us attended the Chrysler Minivan tour. Some of the highlights of the tour: 2.6 million square feet, 4 miles of walking, 10 miles of conveyor, about 76 vans per hour, 130 robots, and other highlights too numerous to mention. Many People also attended a night baseball game at Tiger Stadium. I don't want to say that the game was slow at times, but there were 22 players at bat in the 5th inning. Saturday, we attended various workshops. Our Chapter earned 3,994 PAOE points.

D.M.R. Johnson

### PROGRAM

This year we hope to increase membership interest, by presenting a diverse range of meeting topics. We are currently working on these possibilities:

- A forum on ASHRAE 90-1
- A panel of consultants/contractors/suppliers to discuss "Specifications"
- Construction Tender Procedures and the Law
- Physical Plant Tour and baseball game at Sky Dome

If you have heard a good speaker or have suggestions, please let me know.

Owen Glendon

### BOARD OF GOVERNORS MEETINGS

The Board met September 3rd at room 100, Services Building, UWO. We reviewed minutes of the last BOG meeting, listened to Chairman reports, reviewed old business, and discussed new business: Chapter Fees, Meal costs, Newsletter, and Chapter Goals for 1991/92. Board will meet again on October 7th, at 4:30 PM, at the location.

D.M.R. Johnson

## COMMERCIAL COOLING ALTERNATIVES

A practical seminar and exhibition for building owners and designers, presented by ASHRAE Toronto Chapter and Ontario Ministry of Energy, will be presented Thursday, October 24, 1991 at the Sheraton Parkway Hotel in Markham. For more information refer to brochure accompanying the Newsletter.

### ASHRAE NEEDS YOU !!

ASHRAE needs your help in attracting more students to the HVAC&R industry. The Educational Activities Committee believes that one of the best ways to promote HVAC&R is to show students the variety of companies and career opportunities which are available within our industry. Many academic programs involving HVAC&R courses are struggling to attract students - let's demonstrate to students the variety of exciting career opportunities which exist in our industry. During the 1992 ASHRAE Winter Meeting in Anaheim, the Educational Activities Committee will sponsor its third Student Job Fair.

This event is scheduled for Sunday, January 26, 1992 from 2:00 pm - 5:00 pm at the Disneyland Hotel in Anaheim. The Job Fair will consist of an open fair where representatives from a variety of companies will be able to speak with students in an open, non-structured atmosphere - no formal interviews. Employers may use this event to promote their company to recent graduates of two and four year engineering and engineering technology programs, and to make contact with outstanding students for future interviews.

We hope that you will use this opportunity to get involved with the promotion of the HVAC&R industry through this direct contact with interested students. Remember - these are the very people who will likely shape the future of our industry. Whether you represent a small consulting firm, a large manufacturing company, a utility, or virtually any other company which is involved in some aspect of HVAC&R, the Educational Activities Committee invites you to participate in this important event.

There is no charge for booth space, but you must register in advance. To register or for more information, please contact Anne Forbes at ASHRAE Headquarters, 1791 Tullie Circle, Atlanta, GA 30329 - (404) 636-8400.

D.K. Boyce



# Newsletter

London, Canada Chapter

American Society of Heating, Refrigerating and  
Air Conditioning Engineers Inc.

521 Colborne Street, London, Ontario, N6B 2T6

## Board of Governors

PRESIDENT	Darryl K. Boyce	661-3301
VICE-PRESIDENT	Owen Glendon	679-8660
SECRETARY	Peter Ziebart	681-1390
TREASURER	Kirk Flowers	657-1010

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NEWSLETTER & PUBLICITY	Donald M.R. Johnson
"R" IN ASHRAE	Kim Ellis

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89 - 90	Greg James
90 - 91	Tom Drennan Jr.



## OPENING NIGHT

### Highland Golf & Country Club

279 Commissioners Rd. E., London, Ontario

## Monday, September 30, 1991

Social Hour - 5:30

Dinner - 6:30

Guest Speaker: **Roland Welker**

Topic: **Water Supply Study of the City of London**

Co-presenter: **John Jaradine,  
Manager of Waterworks & Engineering, PUC**

**OCTOBER MEETING - FORUM**

**"Specifications and the Bidding Process"**

The chapter membership communicates professionally and legally through the bidding process. The process is a complex one, often failing to deal equitably with all participants.

We invite you to challenge and evaluate current procedures and make suggestions for improvements.

We have assembled a panel representing a cross section of our industry.

The panel will include a consulting engineer, equipment supplier, and a mechanical contractor from our chapter membership, and a local lawyer.

Please come prepared to express your valued opinions.

Owen Glendon

**REGIONAL CHAIRMAN**

Datton McIntyre, our Region II Chairman, will be visiting our Chapter on Monday. Please come out and meet him.

**ANNOUNCEMENT OF CONFERENCE**

"Consultants' Options on CFCs and Alternative Refrigerants" conference will be held in Chicago on Monday, November 4th, 1991. Brochures will be available at the registration table when you sign in.

**1991-1992 CHAPTER MEMBERSHIP INVOICE**

Somewhere inside your Newsletter is your Invoice for the current 1991-1992 year. Please fill it out as soon as possible and return to Kirk Flowers, or bring it to the Chapter meeting on Monday. Should you forget, we will have additional invoices at the registration table. The fee structure is as follows:

\$125 Full membership: this includes scrumptious meals, Newsletter and your name in the Chapter Roster.

\$ 40 Out-of-town membership: this includes the Newsletter and your name in the Chapter Roster. Meals are extra, at \$20 for each meeting you attend.

\$ 20 Guests: this includes a meal.

\$ 10 Students: this includes a meal.

The Chapter Roster will be published in January and mailed out with the Newsletter. The Roster will contain only the names of members, who are either full members or out-of-town members. This will be compiled from Invoices received back by January 2nd, 1992. Don't miss out.

D.M.R. Johnson

**BOARD OF GOVERNORS MEETINGS**

The Board met October 8th in room 100, Services Building, UWOC. Boyce, Drennen, Fenner, Glendon, Johnson, Miles, and Zebart were in attendance. We reviewed minutes of the last BOG meeting, listened to Chairman reports, reviewed old business, and discussed new business: October program, Research & Promotion, Construction Trade Show, future programs, Invoices, and Chapter Roster. Technical sessions will commence again with our January meeting.

The Board will meet again on October 28th, at 4:30 PM, at the Highland Country Club.

D.M.R. Johnson

**NEWSLETTER**

The Newsletter is mailed to all Chapter members and is also mailed to all Society members assigned to our area.

D.M.R. Johnson

**CONSTRUCTION TRADE SHOW**

The seventh annual Construction Trade Show will be held on Tuesday, February 11, 1992, at Western Fair Grounds, gross Building. This yearly event is sponsored in part by our own local chapter.

**EDUCATION COMMITTEE REPORT**

With the start of another year there is continued interest in the ASHRAE student branch at the University of Western Ontario. Dr. J.D. Tarasuk from the university is coordinating the student membership drive.

Our first event, planned for late November, is a career night, where a panel of 4 or 5 engineers discuss career opportunities with the students. The event is sponsored by the ASHRAE student branch, but all students are welcome.

Presidential Award of Excellence (PAOE) points are awarded for membership activity in Technical seminars. If you attend any seminars during this year, it would be appreciated if you would please FAX me the details (your name, seminar, description and duration, and date). My FAX number is 452-6258. Your cooperation will help us meet our goals.

Thank you in advance,  
John Reid



# Newsletter

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## FORUM

**"SPECIFICATIONS AND THE BIDDING PROCESS"**

## Highland Country Club Ltd

279 Commissioners Road. E., London, Ontario

**Monday, October 28, 1991**

Social Hour - 5:30

Dinner - 6:30

Guest : **Dalton McIntyre,**  
Chairman, Region II

## PRESIDENT'S MESSAGE

The Chapter needs the support of the membership through participation on chapter committees. I request that each of you consider volunteering your time to help on one of the following committees:

Educational Activities - responsible for the coordination of this chapter's Educational Activities through liaison with educational institutions, promotion of careers in HVAC&R, promotion of continuing education, and work with schools to improve Math and Science education.

Energy and Technical Activities - responsible for the promotion and administration of Technology awards program, support the chapter program through the provision of program materials and speaker listings, coordinate activities of Governmental Affairs subcommittee and arrange technical seminars and special programs.

Membership Promotion - responsible for the development and administration of programs to attract qualified new members, encourage existing members to advance to higher grades, recruit new student members and encourage upgrade of student members and recommend chapter members for Society honours and awards.

Refrigeration Committee - responsible for the promotion of interests and activities of those ASHRAE members whose primary concern is refrigeration and co-ordinate with other committees' topics and activities which are refrigeration oriented.

Research Promotion - responsible for development and administration of a solicitation program to increase the annual income for Society-sponsored research through a chapter-based program.

It is through your participation on these chapter committees that you can effect how the chapter operates and improve our community. Should you have any questions, please contact me at 661-3302, or anyone of the committee chair's above.

Thank you,

Darryl K. Boyce

## 20 YEARS AGO THIS MONTH

The November meeting was held on the 9th, 1971 at The Highland Golf Club. Its officers were Jack VanStone, Cliff Morrison, Russ Gonder, and John Bisset. The price of a meal was \$5.00. The topic was "Variable Volume Air Systems and the speaker was Terry Murphy.

## PROGRAM

This is historically Ladies Night, aka: Spouse's Night or Companion's Night. This year we are pleased to present to you, Bill Schuler, an illusionist extraordinaire. We found him at the Windsor CRC back in August, where he amazed and captured the imagination of most everyone.

Where: Highland Country Club, When: November 25, 1991, Time: 6:30 for cocktails (cash bar), Dinner: 7:30, Cost: \$35.00 for a member and guest and \$20.00 for guests without members, and \$30.00 for a member who brings another member.

## EDUCATION COMMITTEE REPORT

Thank you to those who have informed me of courses which they have attended. When passing on the information to me, please include the following:

Your name  
Seminar name and a brief description  
Seminar duration  
Seminar date  
My FAX number is 452-6258

On November 26th at 7:00 PM at the University of Western Ontario Engineering Building, Room 1059, there will be a group presentation to the students, to discuss career options. If anyone would like to attend or have any questions, please call me at 452-6227.

Til next month, John Reid

## NEW MEMBERS

We wish to welcome the following people who have applied to become local chapter members:

Kristine Norris: Kristine is a Commercial Energy Advisor with Ontario Hydro, on Wellington Road. She has also applied for Society membership.

Michelle Herne: Michelle is a mechanical estimator with J.M.R. Electric, in Exeter. Exeter is a small town just south of Hensall. Michelle has been a Society member for some time now.

We apologize to any other new members out there, who have not been acknowledged yet. It is difficult to coordinate and find out who is making application to Society and the Chapter. To make sure you're included please contact me. Kirk and Frank will work at it too.

Don Johnson

## BOARD OF GOVERNORS MEETINGS

The Board met November 6th at room 100, Services Building, UWO. We reviewed minutes of the last BOG meeting, listened to Chairman reports, reviewed old business, and discussed new business. We will start up the Technical sessions again in January. Those that attended, were: Darryl Boyce, Frank Conte, Bert Fenner, Kirk Flowers, Owen Glendon, Mike Gubish, Don Johnson, and Peter Zeibert. The Board will meet again in January, same location.

D.M.R. Johnson

## HVAC CENTRE OF EXCELLENCE

Your board of Governors, at it's last meeting, agreed in principle to give support to the Proposed Heating Ventilating and Air Conditioning Centre in the Department of Mechanical Engineering at The University of Western Ontario. We are currently reviewing the draft proposal put forward by Professor J.D. Tarasuk.

## SKY DOME TOUR

Our April meeting will consist of a tour to the Sky Dome in Toronto. We will tour the mechanical rooms, eat, and time permitting, enjoy a home game for the Blue Jays. We will probably charter one or more buses to get there and back. Things are still in the planning stages and Kirk Flowers will keep us informed.

## LAST MONTH'S PROGRAM

Last month's meeting was well attended and generated a lot of interest. Some of the comments we received: "Well done," "could have been longer," "include a lawyer," "include an owner," and numerous others. We may do this or something similar next year.

## ATTENTION STUDENTS

Last month we inadvertently indicated that meals were going to cost students \$10. We regret any inconvenience this may have had. Students will only be charged \$7 per meal.

## SOCIETY EXPANDS ITS 1992 STUDENT PROJECT COMPETITION

ASHRAE has announced plans for its 1992 Student Project Competition, which will offer first prize awards of \$1,500 in two categories.

ASHRAE sponsors the student project competition to recognize outstanding undergraduate student research and design projects and encourage students to become involved in the HVAC&R profession. Students are judged for work based on topics of current ASHRAE interest.

Entries will be judged at the following levels: university or college; ASHRAE chapter; ASHRAE region; and Society.

Projects will be judged on originality (20%), applicability and economic feasibility (30%) and technical content (30%). A project description's organization, clarity and style will account for the remaining 20%.

First place winners in each category will receive \$1,500 plus the opportunity to attend the 1993 ASHRAE Winter Meeting in Chicago, with transportation, two nights' accommodation and meals paid for by the Society.

Up to two runners-up in each category will be awarded \$750. Students are required to submit papers of up to 15 pages describing their projects. All entries must be in English and submitted to faculty advisors by April 15, 1992.

Winners will be notified at the end of September. Runners-up awards will be presented at local chapters in October and first place awards will be presented at the 1993 Winter Meeting.

For more information about ASHRAE's 1992 Student Project Competition, contact John B. Bisset, P.Eng., Vice Chairman, Region II, Educational Activities, at Chorley & Bisset Ltd., 521 Colborne Street, London, Ontario N6B 2T6, telephone 679-8660.

John B. Bisset



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## LADIES NIGHT

**A NIGHT OF INCREDIBLE MAGIC**

## Highland Country Club Ltd

279 Commissioners Road. E., London, Ontario

**Monday, November 25, 1991**

Cocktails - 6:30

Dinner - 7:30

Guest : **Bill Schuler**,  
Illusionist



## 20 YEARS AGO THIS MONTH

The January meeting was held on the 11th, 1972 at The Highland Golf Club. Its officers were Jack VanStone, President; Cliff Morrison, V.P.; Russ Gonder, Treasurer; and John Bisset, Secretary. The price of a meal was \$5.00. The programme was Garnet Nelson, from the Air Management Branch of the Dept. of Energy and Resources, who spoke on the research and background of the standards set by Energy and Resources.

## PROGRAM

Dr. Allen is considered to be one of the leading noise and vibration control experts in Canada. As Director of Engineering Services, he has helped establish Vibron's reputation as an innovator in the field. He has written several articles for engineering journals and holds patents on a range of products designed to solve or reduce noise and vibration.

Dr. Allen has been a professor at the University of Toronto's Department of Mechanical Engineering since 1966, where he is currently teaching graduate courses in Acoustics and Design.

As the head of the Consulting Division of Vibron Limited, Dr. Allen has managed many projects involving the reduction of sound and vibration levels in commercial, residential, and educational buildings. He is particularly noted for his design of the giant "hula-hoop" tuned mass vibration dampers used for the mast portion of the CN Tower.

Important note: this month's meeting will be moved ahead one week to this Monday, January 20, 1992, and will be at the former University Club at Somerville House on the UWOC campus. A map is enclosed, indicating Somerville House and Visitor Parking.

## TREASURER'S REPORT

As of December 1st, half our chapter members had not submitted their local dues of \$125. If Kirk does not receive your payment by December 31st (ed. note: I only print it as I get it!), he will have to resort to drastic measures. Yes, that means that every rug cleaning firm within a fifty mile radius of your home will be advised that you are in urgent need of a complete home steam clean. Please take a moment right now to send in your cheque to Kirk Flowers. Look it up in the new 1992 Chapter Roster, enclosed. Kirk Flowers

## MEMBERSHIP COMMITTEE REPORT

Just received, ASHRAE membership forms, Society and Student applications. These forms will be at the registration table for our next meeting. Each and everyone of you are Membership Chairpersons, please carry at least one of these forms with you... never know when they might come in handy.

In 1992, Ontario Hydro will be planning a 90.1 seminar for the London area. A membership list will be supplied so as registrations for this important seminar can be sent to all ASHRAE members. I have asked Atlanta to supply us with the most recent copy, but if you feel that information pertaining to you might be incorrect, or you wish to have your name deleted for this mailing, please indicate with a note or FAX it to me at 661-5838.

Frank Conte

## NEW MEMBERS

We wish to welcome the following people who have applied to become local chapter members:

Bill Ovington, sales representative with KeepRite  
Blair Autton, Supervisor, Commercial Sales, Union Gas Limited  
Carmen Giacante, Ontario Hydro  
Mike Gubish, Chorley & Bisset  
David Simpson, Union Gas  
Last month (November Newsletter), Kristine Norris and Michelle Herre were acknowledged.

## BOARD OF GOVERNORS MEETINGS

The Board met December 2nd at room 100, Services Building, UWOC. We reviewed minutes of the last BOG meeting, listened to Chairman reports, reviewed old business, and discussed new business. We will start up the Technical sessions again in January.

## BREAKING FREE OF FREON

Included as a separate page is an article, "Breaking free of freon," by Chris Clark, Graduate School of Journalism, which first appeared in the Western News, December 12, 1991, page 11. It has been reproduced with the kind permission of Alan Johnston, Editor. The Western News is published by the Department of University Relations and Information for the university community.

## HVAC CENTRE OF EXCELLENCE

Further to the November Newsletter info, the following is an excerpt from the Draft, Proposed Heating Ventilating and Air Conditioning Centre in the Department of Mechanical Engineering at The University of Western Ontario, as prepared by Professor J.D. Tarasuk.

## PROPOSAL

Experts in the field of Heating, Ventilating and Air Conditioning (HVAC) usually acquire their skills in special courses outside the University context or by years of practical experience. The objective of the proposal is to establish a Centre of Education and Research in HVAC at The University of Western Ontario which will:

- 1) provide a resource centre to consultants and the industry in HVAC
- 2) train young engineers and technologists to levels of proficiency to minimize assimilation time in the HVAC industry and
- 3) develop a strong research thrust coupled with the training of experts in HVAC related studies to the M.E.Sc. and Ph.D. levels

These objectives will be fulfilled by:

- 1) The Creation of a Mechanical Engineering Fourth Year Option in HVAC  
The option will require the student to take the mandatory general courses. However, the electives must be selected from courses related to the area of HVAC. A fourth year project will be required in the HVAC field of study.
- 2) Creation of a Research Laboratory With Emphasis on HVAC Related Problems  
This will require dedication of additional laboratory space, the acquiring of research equipment and more importantly additional faculty to direct research and instruction at the graduate level.
- 3) Development of M.Eng. Module Courses to Serve the Industry  
An innovative M.Eng. Program is being initiated at Western. The purpose of the program is to make available to Engineers, high quality courses which will be taken in a four day period (Saturday to Tuesday). These courses will be taught by National and International experts.

Next month, the Newsletter will cover Benefits that would come out of the Centre for industry, students and the University.

## SKY DOME TOUR

Further to the November Newsletter info, our April meeting will consist of a tour to the Sky Dome in Toronto. We will tour the mechanical rooms, eat, and time permitting, enjoy a home game for the Blue Jays. We will probably charter only one bus. As space may be limited, it will be on a first come basis for Chapter members. After a certain date, to be indicated later, it will be open to guests too. Things are still in the planning stages and Kirk Flowers will keep us informed.

## NEWSLETTER

Good newsletters keep members active. They make prospective members interested in joining our Chapter. The newsletter also can be an excellent way to maintain and record our Chapter activities throughout the year. A good newsletter is more than "just a bunch of news." It "markets" or "advertises" chapter activities and if done correctly, the newsletter can increase membership as well as Chapter participation. As one Chapter member put it, "The newsletter is the common thread of membership and, in a sense, it is the glue that holds us together."

## CHAPTER ROSTER

Enclosed is your 1992 Chapter Roster. It was produced this year by Graphic Services, at the university. Not Bad! If you didn't get one, that means you're not a chapter member.

## 1992 CONSTRUCTION TRADE SHOW

Last reminder...February 11, 1992, at the Progress Building, Western Fair Grounds, London, Ontario. It is being co-hosted by:

Association of Architectural Technologists of Ontario  
Construction Specifications Canada  
ASHRAE London Canada Chapter  
London and District Construction Association

## TECHNICAL SESSION

At 5:30 PM, ASHRAE Video "Concepts for Energy Efficient Air System Design."



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90 - 91	Tom Drennan Jr.



## JANUARY MEETING

### The University Club

Somerville House

### The University of Western Ontario

## Monday, January 20, 1992

Social Hour - 5:30

Dinner - 6:30

## Guest : Dr. Donald L. Allen, P.Eng

Director , Engineering Services, Vibron Limited  
ASHRAE member

Topic: Noise and Vibration Control



## THIS MONTH'S PROGRAM

**SPEAKER:** William Braun  
Sifton Properties Ltd.

**TOPIC:** One London Place  
Sifton Properties Ltd.  
London Life Insurance Co.

"One London Place" is London's newest showpiece. This soon-to-be-completed 24-story office building sports the latest in HVAC technology.

Bill Braun, Project Manager for Sifton Properties Ltd., will present an overview of the design concepts with emphasis on the control systems.

## 1992 CONSTRUCTION TRADE SHOW

The Trade show came off well and was well attended. We extend our thanks to all the members who helped with registration by working one-hour shifts at the table. A special thanks to Grant Miles, who once again, has done a great amount of work with the other groups in making this another successful event.

## JANUARY MEETING

We had an excellent turnout for the January meeting, considering that we moved the meeting up by one week, a different location, and the weather. Dr. Allen was an excellent speaker. Our thanks to Don Morton who arranged for his visit. We also had a very good turnout of students attending. Not one of the students went to the Highland. We have it on good authority that at least three members went to the Highland. One didn't know where the meeting was and went home. The other two arrived a little late, went in, sat down and proceeded to start eating the salad. After noticing the wine on the table (wine on the table???) they looked around and realized they didn't know anyone. With heads ducked and their tails between their legs, they scampered off. Better luck next month!

## HVAC CENTRE OF EXCELLENCE

Last month we covered the 'Proposal' and this month the 'Benefits', an excerpt from the Draft, Proposed Heating and Air Conditioning Centre in the Department of Mechanical Engineering at The University of Western Ontario, as prepared by Professor J.D. Tarasuk.

### BENEFITS

Several benefits are likely to come out of such a centre for industry, students and the University.

### BENEFITS TO INDUSTRY

- access to the facilities of a research centre in HVAC at Western,
- highly trained graduate engineers,
- a resource centre for consultants in advanced aspects of HVAC,
- involvement in Western's Year IV projects and the E.S. 240 Project,
- involvement in Western's Industrial Internship Program,
- involvement in M.Eng. Program.

### BENEFITS TO STUDENTS

- an opportunity to specialize before graduation,
- opportunity to meaningfully interact by Year III with the HVAC engineering community,
- provide employment opportunities in HVAC.

### BENEFITS TO THE UNIVERSITY

- attraction of funding for laboratories, faculty, and research,
- attraction of high calibre students in the undergraduate/graduate programs.

### WHY WESTERN

Mechanical Engineering at Western has changed dramatically in the past decade. The staff and faculty are new and are anxious to interact where possible with industry. Our philosophy is both the education of young engineers and the support of industry in research and development at Western. We already have, in place, some research facilities in HVAC and faculty in the Mechanical Engineering Department with considerable interest in HVAC. In addition, a Construction Centre of Excellence is soon to be started in our Engineering Department.

Next month, the Newsletter will cover a sampling of past and present projects.

## ONTARIO HYDRO - ASHRAE 90.1

On April 9, 1992, Ontario Hydro is hosting a lunch for architects, consultants, and others with an overview of the impact of ASHRAE 90.1 on our industry. ASHRAE 90.1 will be included in the National Building Code in 1993 and made mandatory in 1995. More information will be forthcoming in the next Newsletter.

## SKY DOME TOUR APRIL 28th, 1992

Listen up! There were 47 tickets, now only 46 tickets left. We will leave by chartered bus around 1 PM, travel to Toronto, tour some mechanical rooms, go to Honest Ed's, and then enjoy a Blue Jay's home game. 45 left.

The cost is \$20 for Chapter members and \$40 for non-members. This cost includes the bus and the tickets for the game. It does not cover meal cost at Honest Ed's. 44 left.

Tickets are and will go fast. Members can contact Kirk and let him know that you want to go. The \$20 must be paid to Kirk before the Chapter meeting later. No money, you're dropped! 43 left. After the dinner, tickets will be available to anyone if there are any left. Going, going.... gone.

## 20 YEARS AGO THIS MONTH

The February meeting was held on the 15th, 1972 at The Highland Golf Club. Its officers were Jack VanStone, Cliff Morrison, Russ Gonder, and John Bisset. The price of a meal was \$5.00. The topic was "Project Management" and the speaker was R.A. Kalle of Wintec Corporation Ltd., Windsor. John Payne became the Chief Engineer at Fodar's and Tom Johnson, the Branch Manager.

## SPECIAL AWARDS

Awards to be presented at the next meeting for:

89/90 Chorley & Bisset Limited  
Veel Mechanical  
Glover Hill

90/91 Chorley & Bisset Limited  
Union Gas  
Glover Hill

## LAST MONTH'S MEETING

We wish to acknowledge the following students who attended the last meeting:

Joel Ridley  
Steve Gayton  
Rob O'Grady  
Erol Farguharson  
Gurpreet S. Aul  
Dave Mishenko  
Janette deVera  
Vince Sorbaso  
Dave Evans  
Andrew Craddock  
Yvonne

## BOARD OF GOVERNORS MEETINGS

The Board met on February 4th in Room 100, Services Building, UWO. We reviewed minutes of the last BOG meeting, listened to Chairman reports, reviewed old business, and discussed new business. Those who attended were: Brenda Stonehouse, Darryl Boyce, Kirk Flowers, Owen Glendon, Tom Drennan, Don Johnson, Grant Hilliard, and Bill Ovington. The Board will meet again on March 3rd, same location.

D.M.R. Johnson

## RES MEETING - TUESDAY, MARCH 24th, 1992

At 8 pm, Victory Branch Legion. Topic "Water Cooled Condenser Conversions" by John Pollock of Husman and Frank Stauder of the London PUC.

Tom Drennan



# Newsletter

London, Canada Chapter

American Society of Heating, Refrigerating and  
Air Conditioning Engineers Inc.

521 Colborne Street, London, Ontario, N6B 2T6

## Board of Governors

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VICE-PRESIDENT	Owen Glendon	679-8660
SECRETARY	Peter Ziebart	681-1390
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## FEBRUARY MEETING

### Highland Country Club Ltd

279 Commissioners Road. E., London, Ontario

# Monday, February 24, 1992

Cocktails - 6:30

Dinner - 7:30

Guest :

**William Braun,**  
Sifton Properties

## THIS MONTH'S PROGRAM

**SPEAKER:** Norm Taylor  
Taylor Wainman Associates

**TOPIC:** Leadership: New Directions In  
Challenging Times

As today's businesses face unprecedented changes in market factors, technology and staff expectations, those in leadership roles are finding their styles and methods to be out of date. Most of today's executives and managers prepared for their roles during very different times. Whether yours is a total quality organization well advanced in the principles of continuous improvement, or a company that is only beginning to reexamine the concepts of service and quality, the fundamental shifts in leadership are already impacting upon your relationships with staff and the work they perform.

In this presentation, Mr. Taylor will outline the trends and challenges in organizational dynamics and the implications these have for business leaders. Norm will identify required skill sets and management methods and will explore customer based processes and team structures. Participants will have an opportunity to discuss developments in their own business environments and obtain advice and guidance to support their own change programs.

Taylor Wainman is an organizational development firm specializing in analysis, strategy, design and implementation of programs in support of service/quality philosophies. Norm Taylor has trained managers and executives in leadership skills over the past fifteen years across North America.

## BOARD OF GOVERNORS MEETINGS

The Board met on March 2nd, Services Building, UWG. They reviewed minutes of the last BOG meeting, listened to Chairman reports, reviewed old business, and discussed new business.

## CANADIANS HONOURED

During ASHRAE's 1992 Winter meeting in Anaheim, California, four Canadians were among those honoured by the international technical organization founded in 1894. Name a Fellow ASHRAE for their distinction in environmental technology were: J. Donald Kern, P.Eng., president, J.D. Kern & Co. Ltd., North Vancouver; Maier Perlman, P.Eng., head, energy management unit, Ontario Hydro, Toronto; and Dr. Mal Turaga, P.Eng., professor, Vanier College, Montreal. Receiving a Distinguished 50-Year Award was William G. Hole, P.Eng., Montreal

### ONTARIO HYDRO - ASHRAE 90.1

On April 9, 1992, Ontario Hydro is hosting a lunch for architects, consultants, and others with an overview of the impact of ASHRAE 90.1 on our industry. ASHRAE 90.1 will be included in the National Building Code in 1993 and made mandatory in 1995. More information will be forthcoming in the next Newsletter.

### SKY DOME TOUR - APRIL 28th, 1992

Listen up! There are only 10 tickets left. We will meet in the south-west corner of the White O shopping mall parking lot, (near Jalnah).

Arrive early! The bus will leave at exactly 11:30 AM.

Our tour will start at 1:30 and be conducted by the Director of Engineering. Around 5 PM, we have reservations at Alice Fazooli's, an Italian/Seafood restaurant, and then enjoy a Blue Jay's / California Angel's game.

The cost is \$20 for Chapter members and \$40 for non-members. This cost includes the bus and the tickets for the game. It does not cover meal cost at Alice Fazooli's.

Contact Kirk and let him know that you want to go. The \$20 or \$40 must be paid to Kirk before the Chapter meeting dinner.

## HVAC CENTRE OF EXCELLENCE

Last month we covered the 'Benefits' and this month the 'Why Western', an excerpt from the Draft, Proposed Heating and Air Conditioning Centre in the Department of Mechanical Engineering at The University of Western Ontario, as prepared by Professor J.D. Tarasuk.

### WHY WESTERN

*Mechanical Engineering at Western has changed dramatically in the past decade. The staff and faculty are new and anxious to interact where possible with industry. Our philosophy is both the education of young engineers and the support of industry in research and development at Western. We already have, in place, some research facilities in HVAC and faculty in the Mechanical Engineering Department with considerable interest in HVAC. In addition, a Construction Centre of Excellence is soon to be started in our Civil Engineering Department.*

*A sampling of past and present projects are as follows:*

#### 4th YEAR THESIS TOPICS

- *The Effect of Oversizing on Residential Gas Furnace Efficiency,*
- *Feasibility Study for Conversion to Direct Digital Control,*
- *An Energy Retrofit Study for Riverside United Church,*
- *Chilled Water Storage Systems,*
- *Design and Construction of a Heat Exchanger for a Domestic Clothes Dryer,*
- *Recovery of Chimney Losses for a Residential Furnace,*
- *Granular Insulation Injection System for Wall Cavity Insulation,*
- *Energy Conservation Through Urban Planning and Design.*

## ONTARIO SETS NEW EFFICIENCY STANDARDS

According to Ontario Energy Network, Volume 11 Number 3:

Refrigerators, gas furnaces and some electric motors are among the products which will soon have to meet minimum standards of energy efficiency under expanded regulations contained in the Energy Efficiency Act. Ontario Ministry of Energy officials estimate that the amendment will result in savings to consumers of more than \$11 million a year in natural gas and electricity costs. Energy savings for refrigerators alone are expected to total more than 120 million kilowatt-hours annually. Minimum efficiency levels are also being developed for commercial refrigeration units and gas boilers.

### ASHRAE SPONSORS HEAT PUMP RESEARCH

Atlanta-- A study investigating the performance of heat pumps and heat recovery systems installed in commercial and industrial facilities has been approved by ASHRAE.

Research project "Heat Pump/Heat Recovery Operating Experience", 656-RP, will identify, analyze and present data on the operating performance of these systems and determine other economically feasible applications for heat recovery.

The project, contracted for 12 months by Caneta Research, Ontario, Canada, for \$64,500, will document heat pump and heat recovery cost and energy data previously unavailable as proprietary manufacturer's data.



# Newsletter

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American Society of Heating, Refrigerating and Air Conditioning Engineers Inc.

521 Colborne Street, London, Ontario, N6B 2T6

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## EDUCATION NIGHT

### Highland Country Club Ltd

279 Commissioners Road. E., London, Ontario

**Monday, April 6, 1992**

Social Hour - 5:30

Dinner - 6:30

Guest : **Norm Taylor,**  
Taylor Wainman Associates

Topic: Leadership: New Directions In Challenging Times

## PRESIDENT'S MESSAGE

As the Chapter year comes to an end, I would like to thank the members of the Board of Governors and the committee chairs for their support during my term as your Chapter President.

I believe we have had a good chapter year, our average meeting attendance is up to 42 and the speakers have been interesting and informative.

Since this is our 20th year as a chapter we have planned a special meeting to review our past and gain some insight into the history of the chapter. Your Board of Governors has invited each of the 19 Past Presidents to be our guests at the May meeting. I hope that each member will attend and enjoy the remembrances of the past.

In an effort to strengthen our chapter committees, the Board of Governors has voted to budget a total of \$2500.00 to support the attendance of our committee chairs at the Region II Chapter Regional Conference (CRC) in Halifax. This initiative is important because it is at the workshops held at the CRC that the committee chairs are informed about Society programs and committee operation. The chapter is able to fund this important initiative through the income generated through our participation in the Construction Trade Show held in February. (This event is chaired by Grant Miles).

Once again I request that each member consider volunteering some of your time to improve the chapter through participation on one of the chapter committees. Your new Board of Governors needs your help.

In closing, I would like to say that I found my year as President very interesting and informative and I was particularly pleased that we were finally able to tour the Sky Dome. (Thank you Kirk Flowers).

Thank you.

Darryl K. Boyce

## MAY PROGRAM 20th ANNIVERSARY CELEBRATION

Twenty years ago this month, our Chapter was granted its Charter, making the London Canada Chapter an authorized Chapter of the American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Join in the celebrations with your colleagues and past members of our Chapter, along with Past Presidents, to celebrate our Chapter's 20th anniversary. The program will include past presidents reminiscing over past years' activities from 1972 to 1992.

## CRC 92 - HALIFAX

The Chapter Regional Conference (CRC) will be held August 27th through the 29th at the Halifax Hilton on the waterfront. All ASHRAE members and their companions are welcome. London will be making a good showing in attendance this year.

## TECHNICAL SESSION

This month's Technical Session will consist of a video tape put out by the Ontario Home Warranty Program entitled *High Rise Ventilation 'Better Approaches'*. This film will start at 5:30 PM and is 23 minutes long.

## BOARD OF GOVERNORS MEETINGS

Board met May 4th in Room 100, Services Building, UWO. We reviewed minutes of the last BOG meeting, listened to Chairman reports, reviewed old business, and discussed new business. Those that attended were: Darryl Boyce, Bert Fenner, Kirk Flowers, Brenda Stonehouse, Grant Hilliard, Grant Miles, Tom Drennan, Charles Clemanace, and Don Johnson.

## DOME STADIUM TOUR AND GAME

We had an excellent turnout for the event. Four Windsor Chapter members joined us. Some of us who arrived at the parking lot early thought that we were going on an old orange school bus, but as it turned out, we had a very comfortable bus and trip there and back. Owen almost had us 35 box lunches, but that fell through. At the Dome we toured the field, some enclosed box seats, mechanical rooms, and the tracks that the roof slides back on. Darryl Boyce, Don Johnson, Grant Hilliard, and Ron Granger, followed Owen Glendon on a grand tour of downtown Toronto. Owen took us to the Hard Rock Cafe and we had an unofficial Board of Governors meeting. The noise was incredible, but after several rounds of refreshments, the music began to get quieter. We conducted important business, discussed the Halifax CRC, box lunches, and good angels and bad angels (no relation to the California Angels). We toured more of the downtown and then went to Alice Fozolies. We dined on garlic bread and other gastronomic delights. We went back to the Dome and watched the Angels beat the Blue Jays 9 to 5.

## HYDRO BACKS STANDARD 90.1

Ontario Hydro announced April 7th, at the Lamplighter, that the new commercial buildings will be provided with a cash incentive to meet ASHRAE's Standard 90.1-1989.

## HVAC COMPUTER EXPO

The Toronto Chapter's Energy and Technical Activities Committee has formed a sub-committee to organize an HVAC related computer software and hardware trade show and seminar series event in the fall of 1992.

## ASHRAE GOLF TOURNAMENT

This year's annual golf tournament will be held somewhere... sometime in June... Mark this in your calendar right now. Hugh Palser will fill us in at the May meeting. If you can't make the meeting, then call Hugh at 471-9382.

## NEWSLETTER

This is the last Newsletter. It's been a slice. My thanks to all the members who contributed items. A special thanks to Mary Ross, who put the finishing touches on the inside of the Newsletter, who juggled the paragraphs to make a neat appearance, who checked my *spelling* and grammar, and who put up with me always looking over her shoulder... most of the time anyway.

Don Johnson



# Newsletter

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## CHAPTER 20TH ANNIVERSARY

### PAST PRESIDENT'S EVENING

## Highland Country Club Ltd

279 Commissioners Road. E., London, Ontario

# Monday, May 25, 1992

Technical Talk - 5:30

Social Hour - 6:00

Dinner - 6:30

Guests : **Past President's**