

EXECUTIVE

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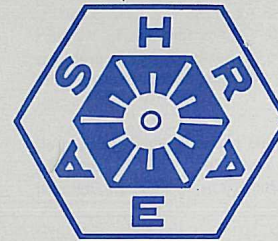
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# ASHRAE...IN WINDSOR!

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

VOLUME 13

September, 1995

NO. 1

## TEGA NIGHT

Tuesday, September, 19, 1995

on

## OCCUPATIONAL HEALTH FOR WORKERS

at

tbq's OTHER PLACE

3065 Dougall Avenue  
Windsor, Ontario

Fellowship:	5:30 am (Cash Bar)
Dinner:	6:15 pm
Speaker:	7:30 pm

(ASHRAE Members \$25, Guests \$30)

### SPEAKERS:

- Mr. Jim Brophy, Executive Director for Occupational Health Clinics for Ontario Workers
- Ms. Margaret Keith, Manager for Windsor Occupational Health Information Services
- Mr. Murray Lawrence, Occupational Hygienist for Occupational Health Clinics for Ontario Workers

For Dinner Reservations  
Contact James Smith at 948-2600 by September 15, 1995

## PRESIDENT'S MESSAGE

Welcome back to ASHRAE Windsor Chapter's 13th year. This years focus will be the increasing of our Chapter Membership and our exposure to other Engineering Disciplines. ASHRAE will help them realise how we impact all aspects of our surroundings in some way.

This year regular monthly meetings will continue to be held at T.B.Q.'s The Other Place. If you have any suggestions for this year Board of Governors please feel free to contact us.

Congratulations to Allan Parks and Randy Wolin for their second place finish in ASHRAE's 1995 Student Project competition. These two student members will be presented an award along with a cheque for \$1,500.00, (to be split between the two team-mates), at an up coming meeting. Allan and Randy's project was presented at last May Chapter meeting.

I would like to thank our membership for the support you've shown to our Society over the past few difficult years. As our economy begins to strengthen I would like to see our membership grow and our visibility expand in the Essex/Kent County Area

Frank Frabotta  
President

## ABOUT THE SPEAKER

Jim Brophy is the Executive Director for the Occupational Health Clinics for Ontario Workers Inc., Windsor Clinic and Murray Lawrence is an Occupational Hygienist.

The Occupational Health Clinics for Ontario Workers provide services to workers, unions, joint health and safety committees, employers, legal clinics, health professionals, community groups and members of the public.

Workers come to the clinic on their own, or on referral from their union, their employer or their family doctor.

Services provided by the clinics are free of charge. The only exception is medical surveillance under the Designated Substances Regulations which the employer pays for under the law.

The Occupational Health Clinics for Ontario Workers know that to address the occupational health problems experienced by workers you need to improve the work place environment.

The staff work with clients to determine whether their work is causing their health problems. They take detailed occupational histories, tracing all harmful exposures.

But they don't stop there. They provide workers with information about the hazards in their workplace. They write fact sheets based on what they have learned. They assess the working conditions and make recommendations which the worker, the union or the joint health and safety committee can use to fight for improvements

Margaret Keith is the Manager of the Windsor Occupational Health Information Service and mission is to promote community awareness of occupational and environmental health and safety issues, in order to prevent illness and injury.

WOHIS gives you immediate access to the area's largest and most comprehensive health and safety library. WOHIS holds thousands of publications, files, books, journals, clippings, educational materials and studies. We can provide you with information from our library and / or refer you to medical or legal professionals, or to other organizations. The information / referral service is offered free of charge to most residents of Windsor & Essex County.

WOHIS maintains computer access to the most up-to-date information through its link to numerous international databases. We have CD ROM subscriptions to the databases of the Canadian Centre for Occupational Health & Safety, the National Library of Medicine's Medline and Toxline - each containing thousands of references to articles, medical studies, chemical data sheets, etc. Staff will help you to perform your occupational or environmental health literature search or we can do the search for you.

WOHIS has produced a number of video on a wide range of occupational and environmental health issues. We have, as well, a collection of educational video which have been produced by other health and safety organizations. Any of these videos can be viewed on the premises or borrowed.

WOHIS can provide workplace walk-through surveys and assessments and some industrial hygiene and

educational services. A nominal fee may be charged for these specialized services. Please call for more information.

## RESEARCH AND PROMOTION CHAIRMAN'S REPORT

Thanks to everyone who contributed to last years research promotion campaign, we were the top Chapter for \$/Member and received awards for this.

Good job Don Winkup and committee.

The Goals for this year are as follows:

1. To increase the number of contribution
2. To collect \$5,000.00 for the Chapter

I hope we can meet these goals so we can continue our tradition as a top ASHRAE Research Chapter. Don't forget, ASHRAE Research helps us all.

Steve Koutsonicolas

## NOTES:

- A copy of the Windsor ASHRAE Membership Roster is available free of charge, contact any board member for your copy.
- Next Board of Governors meeting - September 26, 1995, 5:15 PM at Baymar.
- If you attend a Professional Development Seminar or other education event notify Daniel Gosselin of Union Gas Limited. We receive PAOE points for each event you attend.

## GOLF TOURNAMENT:

The ASHRAE 3rd Annual Golf Tournament will be held on October 2, 1995 at Essex Golf and Country Club. Contact James Smith at 948-2600 for reserving your tee-off time. More details to follow in next month's newsletter.

James Smith  
Golf Committee Chairman

## TECHNICAL WORKSHOP

A fall workshop on Commercial Ground Source. Heat pump system presented by Coneta Research Inc., promoted by Ontario Hydro and supported by local ASHRAE Chapters, including Windsor will be held in London, Ontario on November 16 - 17, 1995.

Full detailed information is attached with this newsletter outlining the two day professional development workshop.

Members of the Windsor Chapter wishing to attend this workshop are reminded to inform our TEGA Chairman of your attendance to earn PAOE credits.

This is an excellent opportunity to be brought up to date on design guidelines for ground source heat pumps in commercial applications. Should you require further information or additional registration forms, feel free to contact:

Mr. Doug Cane  
Coneta Research Inc.  
7145 West Credit Avenue  
Suite 102, Building 2  
MISSISSAUGA, Ontario  
L5N 6J7

Tel. 1-905-542-2890  
Fax. 1-905-542-3160

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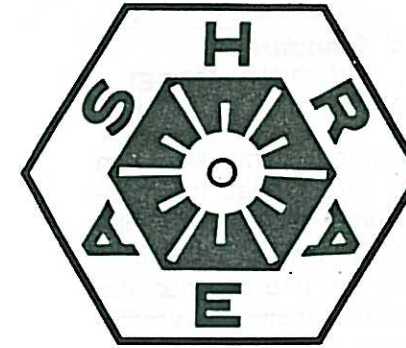
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# ASHRAE...IN WINDSOR!

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

VOLUME 13

March 1996

NO. 7

## TEGA NIGHT/CHAPTER NOMINATIONS

Tuesday, March 19, 1996

on

## ASHRAE STANDARD 62 VENTILATION FOR ACCEPTABLE INDOOR AIR QUALITY

at

tbq's OTHER PLACE  
 3065 Dougall Avenue  
 Windsor, Ontario

Fellowship: 5:30 p.m.  
 Dinner: 6:30 p.m. (Cash Bar)  
 Speaker: 7:45 p.m.

(ASHRAE Members \$25, Guests \$30)

**SPEAKER:** Mr. Dennis Stanke Senior Principal Applications Engineer  
 The Trane Company

For Dinner Reservations  
 Contact James Smith at (519) 948-2600 by March 15, 1996

## PRESIDENT'S MESSAGE

With winter almost gone, there seems to be a prosperous year developing.

Networking with ASHRAE is a good way to kick start the year, so invite a guest to our next meeting.

The Windsor Science Fair will be held Saturday, March 30. Show your support for ASHRAE by volunteering to be a judge. This would be an excellent opportunity to let the students know how Math and Science can benefit their career.

If you have not been attending the meetings we would be interested in knowing your reason. Our goal is to make the meetings informative and interesting for all our members. If there is a topic you would like presented, please advise the Board.

Please FAX your comments to Frank Frabotta at 519-974-5803.

Looking forward to seeing you at our March meeting.

Frank Frabotta  
President

## ABOUT THE SPEAKER

Guest Speaker: Dennis A. Stanke,  
Senior Principal Applications Engineer  
The Trane Company

Mr. Stanke, a mechanical engineer by degree, has been an applications engineer with The Trane Company for 20 years, specializing in airside and control system design. He has written numerous applications manuals, engineering bulletins and Engineers Newsletters. He has also participated on several ASHRAE committees, including the Program Committee and ASHRAE SSPC62. He is highly respected in the industry for his knowledge and understanding of ASHRAE Standard 62-89.

- I WOULD <sup>like to</sup> welcome everyone here tonight
- INTRODUCE JOHN DUGAN
- HAVE
- THANK YOU
- INTRODUCE BRUCE OTHER
- CALL ON GRACE

## Codes and Standards NATIONAL BUILDING MODEL CODES GET MAJOR REVISION

The Canadian Commission on Building and Fire Codes has published a revision to the National Building Code (NBC) that includes new provisions for the use of automatic sprinklers and for mechanical ventilation for houses, according to "Construction Innovation," a quarterly newsletter issued by the Institute for Research in Construction.

The 1995 model codes would require, if adopted into law by a province, territory or municipality, sprinklers in residential buildings of more than three stories, and in some institutional buildings. Mandates for sprinkler installation in existing buildings are not included in the model.

Mechanical ventilation of houses is dealt with in CSA Standard F326, which is referenced in the new code. In addition to this performance-based standard, the model code includes alternative, prescriptively described systems. The model code also includes a prescriptive path that specifies that the principal exhaust fan in the mechanical ventilation system must have a capacity of 50-percent of the required system capacity.

For more information, please call 1-613/993-0435 (voice), 1-613/952-7673 (fax). Two new Natural Resources Canada publications on energy efficiency regulations and compliance policy are available by writing Energy Publications, c/o Canada Communications Group, Ottawa, Ontario K1A 0S9, or faxing 1-819/994-1498.

## Finite Element Analysis Workshop

UNIVERSITY OF  
WINDSOR

Finite Element Analysis (FEA) has become an effective engineering tool in the design and analysis of components in a manufacturing environment. By enabling engineers to investigate the behaviour of a part under a variety of service conditions, FEA can dramatically reduce flaws associated with the design and testing cycle.

In this two-day workshop we will dispel the myth that FEA is an engineering tool available only to the elite. We will focus on the practical aspects of finite elements using a bottom-up approach. Beginning with very simple modelling considerations in FEA, we will work toward two-dimensional and three-dimensional analysis. The applications of FEA will be explored through a variety of case studies related to static stress analysis, dynamic analysis and vibration, steady state and transient heat transfer and computational fluid dynamics.

### How to Register

Complete the registration form below, and mail with payment to:

Office of Professional and Community Programs  
University of Windsor  
Windsor, Ontario N9B 3P4

Or, fax the form to (519) 973-7038. Once you send your registration payment, your reservation is guaranteed.

### Seminar Fee

The seminar fee is \$300 per person. Save 10% of your registration fees by registering in two or more seminars, or by registering with someone else from your company.

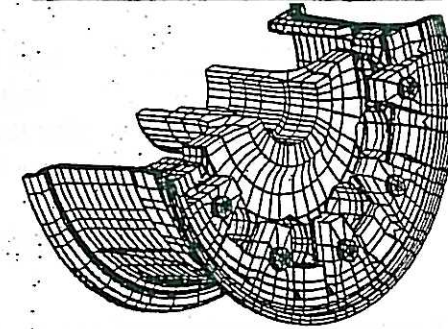
### Confirmation Letter

Your letter of confirmation will include the dates, times and location on campus of your seminar. Please call us at (519) 973-7079 if your confirmation doesn't arrive within a week of your registration.

### Withdrawal

If you withdraw from the seminar, you can choose to substitute another person in your place, or apply your registration fee toward a different seminar. A full refund is available if you withdraw five or more business days before the seminar date.

Offering limited enrolment, hands-on modelling with commercial FEA software, and a fully supervised laboratory, the *Finite Element Analysis Workshop* is an excellent opportunity to learn Finite Element Analysis from a practical, elementary standpoint. No previous knowledge of FEA is required, and the theoretical aspects of FEA will not be discussed.



### Program Instructor

Nader G. Zamani, Ph.D., is a professor of Mechanical Engineering and Mathematics at the University of Windsor. Dr. Zamani has extensive experience in the area of Finite Element Analysis and has been actively involved in consulting and training of FEA modeling in industry. He has used several commercial FEA software applications in R&D projects for more than ten years, and is fully aware of their power and limitations in an industrial design environment.

For more information, call Graham Fawcett at (519) 253-4232 extension 3471.

### Cancellation

Programs will be cancelled if there is insufficient registration. In the event of a cancellation, you may choose to transfer your registration payment toward a different program, or receive a full refund.

### Registration Form Please print clearly

96W M1

Full Name \_\_\_\_\_  
First Name (for name tag) \_\_\_\_\_  
Title \_\_\_\_\_  
Company \_\_\_\_\_  
Address \_\_\_\_\_  
City/Province \_\_\_\_\_  
Postal Code \_\_\_\_\_  
Phone \_\_\_\_\_  
Fax \_\_\_\_\_

Seminar Fee: \$300/person  
(discounts available)

Please register me for the *Finite Element Analysis Workshop* on March 22 and 23, 1996. Enclosed is a cheque or money order, in the amount of \$ \_\_\_\_\_, payable to The University of Windsor.

Signature \_\_\_\_\_  
Date \_\_\_\_\_

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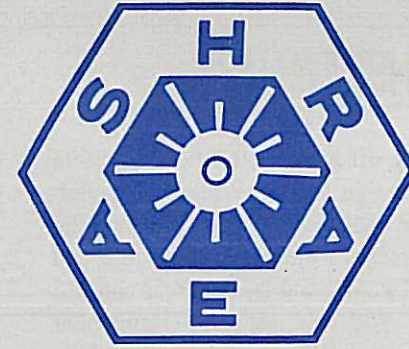
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# ASHRAE...IN WINDSOR!

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

VOLUME 13

January 1996

NO. 4

*PRAYERS - MARK B.*

## HISTORIAN NIGHT

*JAMES LEBON/LERNER & ASSOCI  
 WILL BE OUR SPEAKER  
 IN FEBRUARY, THIS WILL BE A  
 JOINT MEETING WITH  
 ST. CLAIR REGION OF ANCHORAGE*

Tuesday, January 16, 1996

*- JAMES INTRO SPEAKER  
 - NEXT MONTH / JOINT MT  
 WITH  
 JAMES LEBON ASST  
 FROM LERNER SOCIETY  
 + AS1*

## STEAM HUMIDIFICATION

*- CRC Aug 15/16/17*

*ACOST ↓  
 FACILITY (2)  
 AIR HISTORIAN*

*- CHRIS A FOR WORK  
 SAY ON HISTORIAN  
 OF*

*- JAMES  
 SMITH  
 - WILL INTRO*

at  
**tbq's OTHER PLACE**  
 3065 Dougall Avenue  
 Windsor, Ontario

Mini-Seminar	5:30 p.m.
- Humidification Computer Program Analysis	
Fellowship:	6:00 p.m.
Dinner:	6:30 p.m.
Speaker:	7:30 p.m.

**SPEAKER:** • Mr. Grant Lee, Spirax Sarco

For Dinner Reservations  
 James Smith at (519) 948-2600 by January 12, 1996 for Reservations

## PRESIDENT'S MESSAGE

Happy New Year! I hope that you've had a great holiday season. Last year was an excellent year of exposure for our Windsor chapter. The importance of our Society is strongly moving forward through different channels, and I would like to see it supported as we continue into 1996.

This year as the City of Windsor implements ASHRAE standards, I would like to suggest that part of that responsibility is in your hands. Although we are not always in a position of enforcement, we do have the power of suggestion.

Eventually conformance to ASHRAE's standards will prevail. It is in our best interest as Designers, Suppliers and Contractors to promote and support the use of ASHRAE in our day to day work.

Keep in mind that the acceptance of these standards will be easier if we present them in a simple unified manner.

Frank Frabotta  
President

## LADIES NIGHT

Another big success. This event was very well attended with a record high of 84 people. Everyone enjoyed their dinner at the Windsor Race Track especially the betting on the horseraces which followed. However, no one was reported to have walked home a millionaire this year. This means we will look forward to another year and another great ladies night.

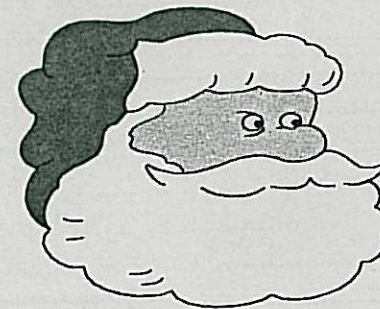
Chairman  
Frank Pelisek

## RESEARCH AND PROMOTION CHAIRMAN'S REPORT

February will be our kick off meeting for the 1995-1996 research promotion campaign for the Windsor Chapter. We have promised more contributions this year than the past years and we hope we can meet this goal. We will be soliciting by phone, by mail and by personal contact. Please say yes when you are asked. Remember ASHRAE research is for you and your livelihood. Give generously.

Steve Koutsonicolas

# HAPPY NEW YEAR 1996



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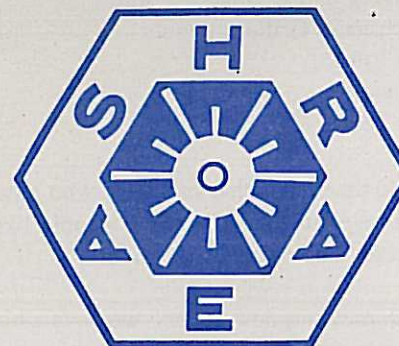
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Windsor Ontario Chapter  
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VOLUME 13

February 1996

NO. 65

## RESEARCH NIGHT/JOINT MEETING WITH ST. CLAIR REGION SOCIETY OF ARCHITECTS

Tuesday, February 20, 1996

on

CONSTRUCTION LAW - CCDC 2

at

tbq's OTHER PLACE  
 3065 Dougall Avenue  
 Windsor, Ontario

Mini-Seminar - Internet Presentation 5:30 p.m.  
 Dinner: 6:30 p.m. (Cash Bar) 2-  
 Speaker: 7:45 p.m.

(ASHRAE & SCRSA Members \$25, Guests \$30)

**SPEAKER:** Mr. James A. LeBer, Partner, Lerner & Associates, Barristers & Solicitors

**TOPIC:** Construction Law

**MINI-SEMINAR PRESENTER:** Mr. Morris Whatinmore, Wincom Ltd.

**TOPIC:** The Internet, Actual Log-on Presentation

For Dinner Reservations  
 Contact James Smith at (519) 948-2600 by February 16, 1996

*THANK YOU FOR COMING OUT THIS EVENING*  
*INTRODUCE TASC*  
*GRACE*  
*STEVE K RESEARCH*  
*① - REMINDER OF OLD PHOTO CRAFT*  
*BROWN*

*Peter*

## PRESIDENT'S MESSAGE

I would like to welcome the St. Clair Region Society of Architects to our February Meeting. I hope you enjoy this information session in construction law.

A request has been made that we search some of our photo albums for any old photographs of ASHRAE Meetings or events. You can forward them to Chris Hales or myself.

With more than half the year behind us I encourage you to ensure you that your membership dues are current.

I'm looking forward to a strong turn out at the February meeting, so contact a friend or colleague and bring them out. I'll see all of you February 20th.

Frank Frabotta  
President

## ABOUT THE SPEAKER

James is the editor and author of "The Critical Path", a monthly construction law newsletter by Lerner & Associates.

He is a contributing writer for the London and District Construction magazine ("Managing the Construction Project: A Litigator's View", 1992 issue, "The Law of Tendering", 1991 issue, "An Overview of the Construction Lien Act", 1989 issue).

He is a speaker/panellist for the London and District Association at numerous construction association functions, Lecturer, Ontario General Contractors' Association Construction Law course for project superintendents, Fanshawe College (1992-1993) and a Lecturer, Law Society of Upper Canada Bar Admission Course on Advocacy.

James is a Member of The Advocates' Society, Middlesex Law Association, Canadian Bar Association of Ontario, London and District Construction Association, London Home Builders Association.

## RESEARCH AND PROMOTION CHAIRMAN'S REPORT

February is ASHRAE Research Promotion Month and ASHRAE Research Promotion recognition night, where we will honour with certificates and plaques those who contributed in the 1994-1995 year with \$250.00 and over.

The following contributors who will be honoured have donated to ASHRAE research for many years and we thank them for their support.

- Bryant Heating and Cooling co. Ltd.
- Dayus Register & Grille
- Honeywell Ltd.
- Trane Canada
- Union Gas Ltd.

We would also like to thank the other members who have given generously throughout the years. It is people like you who keep the research in ASHRAE alive.

As I've mentioned in previous newsletters, we have a big promise to fulfil, as we need to raise \$5,000.00 this year. To date we have 22% of that goal fulfilled.

This year, any individual contribution of \$100.00 or more or any company contribution of \$150.00 or more will receive a commemorative ASHRAE Research Coin. This is the first in a series to follow over future years.

This year's Executive has also applied for the Full Circle Award where everyone in the Executive has contributed \$100.00. This fulfilment also helps our chapter in gaining valuable PAOE points, which is one way that ASHRAE measures success within a chapter.

This year, when you are called upon to contribute to the ASHRAE research fund, say "YES" because ASHRAE research helps "YOU".

Steve Koutsonicolas  
Research Promotion Chapter Chairperson

## WINDSOR REGIONAL SCIENCE FAIR

Your Windsor Chapter of Ashrae proudly sponsors young adults in this annual event and provides an award in the form of a plaque to the school sponsoring the overall winner in energy conservation related projects. The youngsters themselves receive a cash award in each of the categories, junior, intermediate and senior. There are many projects on display at this event and usually there are a number of Ashrae members who volunteer to be judges. However, it is usually the same group year after year. This year we would like to see more of you involved in supporting our young people, promoting the Ashrae name and encouraging further studies in the engineering math and sciences fields. Additional judges will be needed this year because a greater number of projects are expected. Judging these projects is not a difficult task and it is quite an eye opening experience.

Please take the time to read the attached information sheet and volunteer for a Saturday morning to return some of the benefits Ashrae has given to you.

Mark Benedet  
Newsletter Editor

## WINDSOR REGIONAL SCIENCE FAIR

DATE: Saturday, March 30, 1996  
TIME: 8:30 a.m. to 12:30 p.m. (Lunch will be provided)  
PLACE: St. Denis Centre, University of Windsor

### JUDGE'S DATA SHEET

Name: \_\_\_\_\_ ( ) P. Eng. ( ) EIT  
Phone Number: \_\_\_\_\_ ( ) Office ( ) Home  
Fax Number: \_\_\_\_\_  
Area(s) of expertise: \_\_\_\_\_

Have you judged at WRSF before: ( ) Yes ( ) No

Division in which you would like to judge: ( ) Life Sciences  
( ) Physical Sciences  
( ) Computer Science  
( ) Engineering

Age group you prefer to judge: ( ) Novice - Grade 6  
( ) Junior - Grades 7 & 8  
( ) Intermediate - Grades 9 & 10  
( ) Senior - Grades 11, 12 & OAC  
( ) No Preference

Can you judge projects in French? ( ) Yes ( ) No

Please return this completed form to:

Mr. Stephen Tsui, P. Eng.  
LaFontaine, Cowie, Buratto & Associates Limited  
3260 Devon Drive, Windsor, Ontario N8X 4L4

Phone No. 966-2250 Fax No. 966-5523

**THANK YOU FOR YOUR PARTICIPATION**



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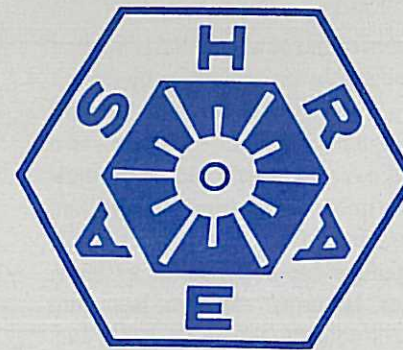
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ASHRAE...IN WINDSOR!

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

VOLUME 13

November, 1995

NO. 3

REFRIGERATION NIGHT/MEMBERSHIP DRIVE

Tuesday, November 21, 1995

A TOUR OF SOUTH WINDSOR ARENA

The Corporation Of The

CITY OF WINDSOR

NOV 29/95

TOPIC: "Ammonia Refrigeration"
SPEAKER: Mr. Phil Marchuk / Arrand Refrigeration
TOUR GUIDE: Mr. Wayne Everett
LOCATION: South Windsor Arena, 2555 Pulford Street
TOUR BEGINS: 5:30 P.M.
DINNER: 7:45 P.M. (CASH BAR)
TBQ's "Other Place", 3065 Dougall Avenue
Members: \$25.00/Guests: \$30.00

Handwritten notes: LUTZ - MEMBERSHIP, TOM A FEW WORDS, DINNER

Handwritten notes: THANK BLOOM, INTRODUCES, TOM - HARRI, SPONSOR PROSSOR, DINNER, THANK SA, INTRODUCED FI, TOM - TO INTRODUCED OUR GUESTS, JUDONIA, F.P. PROSSOR, MARK B. ORAWO, DINNER, PROSSOR

Members or Guests must call James Smith at (519) 948-2600 by November 17, 1995 for Reservations

## GOLF TOURNAMENT SPONSORS

TM Inc.: Main Sponsor

Engineered Air; Floval Equipment Ltd; Palser Enterprises; Emco Supply; Carrier Canada Limited; Trane Canada; Ironross; Haller Mechanical; Spirax Sarco; Bank of Montreal; Donaldson Toritday; Rayteck; Wilson, Dario & Associates; Grace Dearborn; Airwaso; Viessman; H & E Comfort Controls; Canada Contractors, Southern Mechanical; Fahrhall Mechanical; Accu-Air Balance Co.; Temprite; Newman-Hattersley; State Mechanical; Fabco Plastics, Union Gas Ltd.; Johnson Controls Ltd; Lekter Industrial; LaFontaine, Cowie, Buratto & Associates; Delta; Rozell Sheet Metal; S. A. Armstrong; Baymar Supply; Belimo; Ipex; Farr; Lorenzen Engineering; Ideal Heating & Cooling; L.K. Metal Products; Van EE; Lennox; Themorlec, DSF; WHSG; Kenswil Services; Honeywell, J.B. Smith & Associates; Tubeteck Ltd.; Somers Environmental Thermal Products.

James Smith  
Golf Committee Chairman

## REFRIGERATION

Pleased to announce a walk through of the South Windsor Arena, new twin facility located at 2555 Pulford Street. Time: 5:30 p.m., November 21, 1995. Tour shall be accompanied by Mr. Carl Fama, Director of Commercial Services, Parks and Recreation, City of Windsor. Guest speaker shall be the installing contractor Mr. Phil Marchuk of Arrand Refrigeration. Walk through followed by dinner speaker at The Other Place, Dougall Road at 7:45 p.m. Everyone welcome and this should prove to be an interesting, enjoyable tour. See you there.

Ken Wilson  
Chairperson of Refrigeration  
Windsor 141, Ontario

## COMMERCIAL GROUND-SOURCE HEAT PUMP WORKSHOP

A two-day Workshop on November 16-17, 1995 at Spencer Hall, London will cover an introduction to ground-source heat pump technology, owner benefits, economics compared to conventional HVAC systems, design, installation, start-up and commissioning considerations. Participants will receive Workshop

instruction from the authors of the new ASHRAE Manual and this will be complemented by presentations by Robert Mancini, Mancini Saldon and Associates and Howard Alderson, Alderson Engineering Inc. These two gentlemen have designed over 50 large building ground-source heat pump systems in North America. In addition, a ground-source heat pump manufacturer will describe the various types of heat pumps for commercial systems, their controls and other features. If you have not received an announcement contact Caneta Research Inc. at (905) 542-2890.

## ASHRAE TOLL-FREE MEMBER SERVICE LINE

ASHRAE's new toll-free member service line is now available for your use.

CALL 1-800-5-ASHRAE (1-800-527-4723) TO:

- PAY YOUR DUES
- CHANGE YOUR ADDRESS
- ORDER ASHRAE PUBLICATIONS
- REGISTER FOR:  
ASHRAE Winter and Annual Meetings  
Professional Development Seminars  
IAQ Seminars  
CFC Seminars

## PRESIDENT'S MESSAGE

I would like to start off by thanking James Smith and his Golf Tournament Committee for a picture perfect golf tournament. The support of our membership was outstanding and I hope to see this tournament grow to be one of the best in our industry.

There are still a number of members that have not upgraded their membership status. Could you please take the time to look into this. If you are an affiliate or associate with 12 years experience in the HVAC field you will probably qualify.

I would like to encourage our membership that we are looking for new Board of Governor's Committee Members. If you think you could help, please contact myself or James Smith.

Frank Frabotta  
President

## ASHRAE LADIES NIGHT

ASHRAE LADIES NIGHT

WINDSOR RACEWAY, TUESDAY, DECEMBER 5, 1995

Cost - \$21.00/Person - Canadian

Includes - Dinner, choice of:

- Prime Rib
- Broiled Pickerel
- Breaded Breast of Chicken

- Clubhouse Admission
- Official Racing Program
- All Taxes and Gratuities
- Preferred Seating Location

Reserve Tables of 4 and 6

Call Frank Pelisek at 974-5800 for:

Reservations, tickets and choice of dinner

Dinner from: 6:30 p.m.

Post time: 7:30 p.m.

Frank Frabotta  
President

## MEMBERSHIP

This year, the Windsor Chapter Membership Promotion Committee have selected the month of November as Membership Retention Week. During this month the local chapter Membership Committee will call delinquent members to encourage them to make their 1994/95 dues payment before December 27, 1994 and to remind them of the benefits ASHRAE membership offers.

This month's meeting is our second membership drive and we will be having a display on the benefits of ASHRAE membership. We encourage each member to bring a guest who might be interested in joining ASHRAE.

Those members that have not paid their society dues need to do so by sending their payment to Atlanta.

Again, as a reminder, dues must be received before January to ensure your name is included in this year's Chapters' Membership Roster.

Lutz Plotzke  
Membership Chairman

## GOLF TOURNAMENT

On behalf of the Windsor ASHRAE Chapter, I would like to thank all of those who attended the 3rd Annual ASHRAE Golf Tournament and those who helped to make the tournament a success by donating prizes. I would like to express our sincere gratitude to our main sponsor Cliff Murray of TM Inc., for his generous financial contribution. A big thanks also goes out to Fred Smith for donating his time and effort at the registration table.

The winning foursome with a brilliant 63, was Sandy Kalle, Chuck Geraedts, Dave Morden and Dan Lariviere. The closest to the Pin competition was won by Michele Pronvost on Hole No. 5 and George Robson on Hole No. 12. The Longest Drive competition was won by James Smith on Hole No. 13. Again, I would like to thank all of those who contributed and we hope to see everyone at next year's tournament.

James Smith  
Golf Committee Chairman

EXECUTIVE

PRESIDENT ..... Frank Frabotta ..... 974-5800  
 PRESIDENT-ELECT ..... James Smith ..... 948-2600  
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# ASHRAE...IN WINDSOR!

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

VOLUME 13

May 1996

NO. 8

## EDUCATION/INTRODUCTION OF NEW CHAPTER EXECUTIVE

Tuesday, May 21, 1996

Plant Tour of  
 Ford Motor Co. of Canada Ltd.  
 Essex Aluminum Plant  
 (Aluminum) Foundry  
 6500 Cantelon Drive  
 Windsor Ontario

*1st*  
*NOTE @*  
*5:30*  
*CH*  
 |   
*SAFETY*  
*SITING*  
*5 GLASS*

and

University of Windsor Student Presentation

at

TBQ's Other Place  
 3065 Dougal Avenue  
 Windsor, Ontario

Tour & Presentation:	5:30 - 7:00 p.m.
Dinner (TBQ's Other Place):	7:30 p.m.
Student Presentation:	8:30 p.m.
Introduction of Executive:	9:00 p.m.
Tour Guide:	Mr. Bill Welachey, P. Eng.

(ASHRAE Members \$25, Guests \$30)

For Dinner Reservations

Contact James Smith at (519) 948-2600 by **May 12, 1996**

## PRESIDENT'S MESSAGE

As this year draws to a close, a sincere thank you is in order for all of your support. I am honored to have represented our chapter this past year and assure you that I will continue to support ASHRAE and our chapter in the years to follow.

Please help to continue our growth by sponsoring a graduate student to an ASHRAE meeting and help them realize the potential career opportunities in the HVAC industry.

I would like to wish you and your families a safe and happy summer.

Frank Frabotta  
President

## 1996-1997 Executive

President - James Smith

President Elect - Greg Dufour

Treasurer - Brian Dayus

Secretary - Ken Wilson

Board of Governors

Frank Frabotta  
Frank Pelisek  
Mark Benedet  
Steve Koutsonicolas

Come out to our meeting and wish these gentlemen a good year ahead, give them thanks for past years accomplishments and show your support for continued endeavours.

## ASHRAE RESEARCH

I would like to thank all those who contributed to this years ASHRAE Research Fund. At this time we are about halfway to our goal of \$5,000.00. Please help us attain this goal so we can accomplish our PAOE points and awards for this Chapter. Again it has been my pleasure to work with Mr. Frank Pelisek who without him I could not have accomplished this task. May everyone have a nice Summer.

Steve Koutsonicolas  
Research Chairman

## OBITUARY

Mr. Al Dame, partner in Fahrhall Mechanical Contractors and member of ASHRAE, passed away suddenly on April 28, 1996. He will be missed by all his friends, co-workers and business associates. Our condolences go out to Al's family.

## 1996 GOLF TOURNAMENT

The 4th Annual ASHRAE Golf Tournament is tentatively scheduled for September 16, 1996 at Essex Golf & Country Club. Last year we had a very successful tournament with 75 participants, a very attractive prize table and a gorgeous day. We plan on continuing on and making it better than the year before. More details will follow throughout the summer.

James Smith  
Golf Committee Chairman

## CONSTRUCTION CODES INFORMATION ON THE 'NET

The Canadian Codes Centre of the Institute for Research in Construction (IRC) is providing a number of new services for people with online access.

The first new service is an email address that allows the public to access information about the national construction codes and to make general inquiries. The address is: codes@contact.irc.nrc.ca

The second new service is providing, also via email, a series of information bulletins to individuals who register for to receive code updates. Send a request to be placed on the codes electronic-mailing list at the above address. Members of the codes community may also forward notices of meetings and other information to codes-announce@contact.irc.nrc.ca (the hyphen is part of the address) for forwarding to list subscribers.

The Canadian Codes Centre is also in the process of establishing a number of task groups to evaluate the effectiveness of using the Internet as a means of facilitating committee work. Initial studies indicate that there are opportunities for significant cost savings and increases in efficiencies through the use of these technologies, according to the IRC.

For more information on Codes Centre activities, point your browser to [http://www.irc.nrc.ca/codes\\_centre/](http://www.irc.nrc.ca/codes_centre/) (hyphen is not part of the address)

## ACCEPTABLE ALTERNATIVE TO HCFCs IDENTIFIED

### R-508

R-508, which contains HFC-23 and R-116, is acceptable as a substitute for CFC-13, R-13B1 and R-503 in retrofitted and new very-low-temperature refrigeration. Although this blend is non-flammable and does not deplete the stratospheric ozone, EPA believes this blend could significantly contribute to global warming if allowed to escape refrigeration systems. This blend, like all substitutes is prohibited from being intentionally vented into the atmosphere.

### R-411A and R-411B

These two blends, which consist of HCFC-22, HFC-152a and propylene, are acceptable as substitutes for CFC-12 and R-502 in reciprocating chillers, industrial process refrigeration, cold storage warehouses, refrigerated transport, retail food refrigeration, commercial ice machines, vending machines, and water coolers.

HCFC-22 contributes to ozone depletion, but to a much lesser degree than CFC-12. This blend poses less of a threat to the ozone layer than HCFC-22, which has already been listed as an acceptable substitute for CFC-12. The global warming potential (GWP) of HCFC-22 is somewhat high, according to EPA, but the GWP of HFC-152a is low. Although propylene and HFC-152a are flammable, R-411A and B have been designated as A1/A2 refrigerants by ASHRAE (i.e., formulated nonflammable but can become flammable under worst-case fractionation). Leaks from the liquid phase do not become flammable, regardless of the amount leaked.

### HCFC Blend Beta

This blend consists of HCFC-124, HFC-134a and butane, and is acceptable for CFC-12 in new and retrofitted reciprocating chillers, industrial process refrigeration, cold storage warehouses, refrigerated transport, retail food refrigeration, vending machines, water coolers, commercial ice machines, and in household refrigerators, freezers and dehumidifiers.

Although this blend contributes to global ozone depletion, it does so to a much lesser extent than CFC-12. HCFC-124 has an ozone depletion potential (ODP) much lower than HCFC-22, which has already been listed as an acceptable substitute for CFC-12. The GWPs of the components are moderate-to-low, and the blend is nonflammable.

### R-407C

This blend consists of HFC-32, HFC-134a and HFC-125. R-407C is an acceptable substitute for HCFC-22 in new and retrofit equipment in centrifugal, reciprocating and screw chillers, industrial refrigeration, very-low-temperature industrial process refrigeration, ice skating rinks, refrigerated transport, retail food refrigeration systems, cold storage warehouses, vending machines, water coolers, commercial ice machines, household refrigerators and freezers, residential humidifiers, and household and light commercial air conditioning.

This blend is not flammable when used in these end-uses while maintaining as-formulated composition or after leak conditions.

### HFC-134a

HFC-134a is acceptable as a substitute for HCFC-22 in new household and light commercial air conditioning. HFC-134a exhibits a moderate-to-high global warming potential compared to other HFCs.

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# ASHRAE...IN WINDSOR!

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

VOLUME 13

April 1996

NO. 7

## EDUCATION/ELECTION NIGHT

Tuesday, April 16, 1996

on

## NATIONAL ENERGY CODE

at

**Smitty's Restaurant**  
 307 Grand West  
 Chatham, Ontario

Fellowship: 5:30 p.m.  
 Dinner: 6:30 p.m. (Cash Bar)  
 Speaker: 7:45 p.m.

(ASHRAE Members \$25, Guests \$30)

**SPEAKER:** Mr. Pierre Dumouchel, P. Eng.  
 Union Gas Limited

**For Dinner Reservations**  
 Contact James Smith at (519) 948-2600 by April 12, 1996

## PRESIDENT'S MESSAGE

Congratulations are in order for Dr. Tom McDonald, who has been awarded an ASHRAE Fellowship. Thank you Tom for your unselfish dedication to ASHRAE.

This year's C.R.C. will be held in London, Ontario on August 15, 16 and 17th. Please contact myself or James Smith if you are interested in attending the workshops on August 17th.

I will not be able to attend our April meeting due to pleasant weather in Florida. James Smith will chair this meeting.

My thanks to all who judged in the Windsor Regional Science Fair. The overall winner of the ASHRAE Energy Conservation Award was Lindsey Vodarek who represented A. V. Graham Public School, Windsor, Ontario.

Frank Frabotta  
President

## TABLE TOP DISPLAY

A presentation of products carried by Iron Ross Inc. will be displayed prior to and during the April meeting by Larry Mills. Iron Ross distributes Marley Cooling Towers, Farr Filters, Vibro Acoustics silencers, Twin City Fans, King Air Systems and many other manufacturers' products. Come on out to see the table top display and receive product literature.

## ASHRAE RESEARCH

We are getting to the final months of the year and you should have received your research contribution package by now. The Research Committee will now be making direct calls to accept your donations. Please give generously. The following companies were awarded plaques and certificates for their generous contributions in the 1994-1995 year. We would like to see more names in next year's newsletter.

- Union Gas Ltd.
- Trane Canada
- Bryant Heating & Cooling Co. Ltd.
- Dayus Register & Grille
- Honeywell Ltd.

Steve Koutsonicolas  
Research Chairman

## ASHRAE ACTIONS

- The Society committee charged with revising ASHRAE Standard 90.1-1989 met late last year and unanimously voted out a draft for public review, which was subsequently approved by ASHRAE's Standards Project Liaison Subcommittee. A public review draft is in the March issue of the *ASHRAE Journal* (see p. 68).

The existing standard provides minimum energy efficiency requirements for the construction of new buildings. The revised standard will be issued in a format intended to ease its incorporation into state and local regulations as a standard.

Once the Society finalizes the revised standard, federal law requires the U.S. Department of Energy to consider using the ASHRAE efficiency requirements to revise mandatory national standards.

## HIGH PRAISE FOR WINDSOR ASHRAE CHAPTER MEMBER

Congratulations is extended to Tom McDonald, Ph.D., P. Eng. on receiving his fellowship award for long committed service to Ashrae. The Windsor Chapter is very proud. The following articles appeared recently in the 'Ashrae Insights' and the University Newspaper 'The Ambassador'.

Thomas W. McDonald, Ph.D., P.Eng., is a professor emeritus with the Department of Mechanical and Materials Engineering at the University of Windsor in Ontario, Canada. He is a recognized expert in heat exchangers, thermal systems analysis and boiling and condensing. Included among the more than 30 papers he has written are papers on two-phase thermosiphon loop, heat exchangers, incipient boiling and quenching, and property correlations for R-113, R-11 and R-22. Presently, he serves on TC 1.3, Heat Transfer and Fluid Flow, and TC 5.5, Air-to-Air Energy Recovery. He was president of the Windsor Chapter in 1992-93 and Educational Activities Vice Chair in Region II in 1992-95.



### Ashrae 'Insights' Article

## Really cool

Thomas McDonald, professor emeritus with the Department of Mechanical and Materials Engineering, has been elected a Fellow of the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE).

"When I learned that out of 50,000 members, only 500 have been elected fellows, that really brought it home to me," Thomas says.

Thomas, who began at the University of Windsor in 1968, was presented with the award at the society's 1996 Winter Meeting in Atlanta on Feb. 17.

Thomas is recognized as an expert in heat exchangers, thermal systems analysis and boiling and condensing. Included among the more than 30 papers he has

written are papers on two-phase thermosiphon loop heat exchangers, incipient boiling and quenching, and property correlations for the refrigerants R-113, R-11 and R-22.

ASHRAE is an international organization of engineers who voluntarily contribute their knowledge for the public's benefit. ASHRAE guidelines have been adopted by the American government as energy efficiency standards for new buildings. Other ASHRAE guidelines set ventilation rates that promote indoor air quality. The society also supports a \$2.8 million research program whose projects include studies of the use of refrigerants in air conditioning and refrigeration that do not harm the ozone layer.



**GOOD FELLOWS**  
Mechanical Engineering Professor Tom McDonald (right) is congratulated by ASHRAE President Richard Hayter on being elected a ASHRAE fellow, one of only 500 in a society that numbers 50,000 members across the United States and Canada.

### UNIVERSITY OF WINDSOR 'AMBASSADOR' ARTICLE