

**MANUAL FOR CHAPTER OPERATIONS - 1996**

**ASHRAE CHAPTER INFORMATION QUESTIONNAIRE**

Complete and mail to Headquarters, ASHRAE, 1791 Tullie Circle, N.E., Atlanta, Georgia, 30329, Telephone: (404) 636-8400, with a copy to your Regional Chair, no later than June 1. Addresses should be the same as used for other Society mailings, including your Journal, Handbook and miscellaneous mailings. Please notify Headquarters and Regional Chair promptly of questionnaire changes.

CHAPTER OFFICERS must not use nicknames; must include area code when listing phone numbers and must list member number (#). CHAPTER OFFICERS MUST BE MEMBERS OF SOCIETY IN GOOD STANDING WITH THE GRADE OF ASSOCIATE MEMBER OR HIGHER.

CHAPTER WINDSOR # 141 REGION II SOCIETY YEAR\* 1997 - 98  
 (\*For Spring CRCs Society Year indicates Society year beginning July 1. For Fall CRCs Society Year indicates the current year.)

MEETING DATES FOR THE UPCOMING SOCIETY FISCAL YEAR			
July	October <u>21, 1997</u>	January <u>21, 1998</u>	April <u>15, 1998</u>
August	November <u>18, 1997</u>	February <u>18, 1998</u>	May <u>20, 1998</u>
September <u>15, 1997</u>	December <u>15, 1997</u>	March <u>18, 1998</u>	June

Regular Meeting Location \_\_\_\_\_

**PRESIDENT**

Name GREG DUFOUR # \_\_\_\_\_  
 Address 3200 JEFFERSON  
WINDSOR, ONTARIO  
 Business Name DAYMAR A/C Supply  
 Business # (519) 974-5800  
 FAX # 974-5803 E-MAIL # \_\_\_\_\_

**PRESIDENT-ELECT**

Name BRIAN DAYUS # \_\_\_\_\_  
 Address 2479 HOWARD AVE  
WINDSOR, ONTARIO  
 Business Name DAYUS REGISTER & GRILLE  
 Business # (519) 252-0227  
 FAX # 252-0245 E-MAIL # mail@dayus.com

**VICE PRESIDENT**

Name \_\_\_\_\_ # \_\_\_\_\_  
 Address N/A  
 Business Name \_\_\_\_\_  
 Business # ( ) \_\_\_\_\_  
 FAX # \_\_\_\_\_ E-MAIL # \_\_\_\_\_

**SECRETARY**

Name KEN THOMPSON # \_\_\_\_\_  
 Address 3096 DEVON DRIVE  
WINDSOR, ONTARIO  
 Business Name HONEYWELL LIMITED  
 Business # (519) 250-2000  
 FAX # 250-2004 E-MAIL # \_\_\_\_\_

**TREASURER**

Name KEN WILSON # \_\_\_\_\_  
 Address 3695 BRUSSEL  
WINDSOR, ONTARIO  
 Business Name KENWIL SERVICES  
 Business # (519) 977-7719  
 FAX # 977-5287 E-MAIL # \_\_\_\_\_

**CHAPTER BOARD OF GOVERNORS**

Name FRANK FRAPOTTA # \_\_\_\_\_  
 Address 3200 JEFFERSON  
WINDSOR ONTARIO

Business Name DAYMAR A/C Supply  
 Business # (519) 974-5800  
 FAX # 974-5803 E-MAIL # \_\_\_\_\_

Name STEVE KOUTSONICOLAS # \_\_\_\_\_  
 Address 420-3200 DEZIEL DR  
WINDSOR, ONTARIO

Business Name LORENZEN ENGINEERING  
 Business # (519) 945-2426  
 FAX # 945-7130 E-MAIL # \_\_\_\_\_

Name MARK BENEDET # \_\_\_\_\_  
 Address 3260 DEVON  
WINDSOR, ONTARIO

Business Name LaFontaine Cowe Burnett & Assoc  
 Business # (519) 966-2250  
 FAX # \_\_\_\_\_ E-MAIL # \_\_\_\_\_

MANUAL FOR CHAPTER OPERATIONS - 1996

BOARD OF GOVERNORS, (cont.)

Name JAMES SMITH #  
 Address 308 - 3200 DEZIEL DR.  
WINDSOR, ONTARIO  
 Business Name WILSON DARIO & ASSOC  
 Business # (519) 948-2600  
 FAX # 948-2700 E-MAIL # \_\_\_\_\_

CRC DELEGATE

Name GREG DUFOR #  
 Address 3200 JEFFERSON  
WINDSOR, ONTARIO  
 Business Name BAYMAR A/C SUPPLY  
 Business # (519) 974-5800  
 FAX # 974-5803 E-MAIL # \_\_\_\_\_

CRC ALTERNATE

Name KEN WILSON #  
 Address 3695 RUSSELL  
WINDSOR, ONTARIO  
 Business Name KENUX SERVICES  
 Business # (519) 922-7919  
 FAX # 927-5287 E-MAIL # \_\_\_\_\_

MEMBERSHIP PROMOTION COMMITTEE CHAIR

Name CHRIS RACICOT #  
 Address 410 - 3200 DEZIEL DR  
WINDSOR, ONTARIO NEWARKS  
 Business Name HTS. ENGINEERING  
 Business # (519) 250-0200 251-0200  
 FAX # 250-0400 E-MAIL # \_\_\_\_\_

STUDENT ACTIVITIES COMMITTEE CHAIR (LORI)

Name LORRAINE GROUNDIN #  
 Address 650 DIVISION ROAD  
WINDSOR, ONTARIO  
 Business Name UNION GAS LTD.  
 Business # (519) 250-2215  
 FAX # 250-2288 E-MAIL # \_\_\_\_\_

CHAPTER PROGRAMS COMMITTEE CHAIR

Name BRIAN DAVUS #  
 Address 2479 HOWARD AVE  
WINDSOR, ONTARIO  
 Business Name DAVUS REGISTER & GRILLE  
 Business # (519) 252-0227  
 FAX # 252-0245 E-MAIL # \_\_\_\_\_

HISTORIAN

Name TOM McDONALD #  
 Address 845 CABANA E  
WINDSOR, ONTARIO  
 Business Name \_\_\_\_\_  
 Business # (519) 966-2617  
 FAX # \_\_\_\_\_ E-MAIL # \_\_\_\_\_

REFRIGERATION COMMITTEE CHAIR

Name STEWART LOCKHART #  
 Address 8 BELLEISLE COURT  
LONDON, ONTARIO  
 Business Name TRANE COMPANY  
 Business # (519) \_\_\_\_\_  
 FAX # \_\_\_\_\_ E-MAIL # \_\_\_\_\_

RESEARCH PROMOTION COMM. CHAIR

Name JAMES SMITH #  
 Address 308 - 3200 DEZIEL DR  
WINDSOR, ONTARIO  
 Business Name WILSON DARIO & ASSOC  
 Business # (519) 948-2600  
 FAX # 948-2700 E-MAIL # \_\_\_\_\_

TECHNICAL, ENERGY & GOVERNMENT ACTIVITIES COMMITTEE CHAIR

Name DAN LARIVIERE #  
 Address #2 - 2680 QUELLETTE  
WINDSOR ONTARIO  
NRX 167  
 Business Name \_\_\_\_\_  
 Business # (519) 969-9919  
 FAX # 969-9942 E-MAIL # \_\_\_\_\_

NEWSLETTER EDITOR

Name MARK BENODET #  
 Address 3260 DEVON RD  
WINDSOR ONTARIO  
 Business Name LAFONTAINE, CONNIE BOBATTO  
 Business # (519) 966-2250 & ASSOC  
 FAX # \_\_\_\_\_ E-MAIL # \_\_\_\_\_

OTHER

Name \_\_\_\_\_ #  
 Address \_\_\_\_\_  
 Business Name \_\_\_\_\_  
 Business # ( ) \_\_\_\_\_  
 FAX # \_\_\_\_\_ E-MAIL # \_\_\_\_\_



EXECUTIVE

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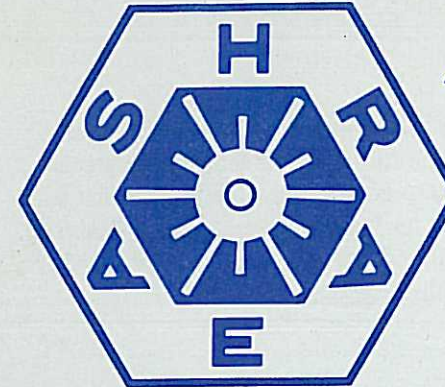
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# ASHRAE...IN WINDSOR!

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

VOLUME 14

SEPTEMBER, 1996

NO. 1

## MEMBERSHIP DAY

Monday, September 16, 1996

## 4TH ANNUAL GOLF TOURNAMENT

4 Person Texas Scramble at

## ESSEX GOLF AND COUNTRY CLUB

Registration Table Open: 11:00 a.m.  
 Tee-Off Times: 12:30 p.m. Shotgun Start  
 Dinner: 6:30 p.m.  
 Prize Presentations: 7:30 p.m.

COST:

\$125.00 Golf & Dinner  
 \$40.00 Dinner Only  
 Carts \$16.00/person

FOR RESERVATIONS CONTACT:

James Smith at 948-2600 by Friday, September, 13, 1996

MEMBERSHIP:

The 1996 Fourth Annual ASHRAE Golf Tournament is upon us now and all chapter members are asked to come out and join in on the fun. We encourage each member to bring a guest who might be interested in joining ASHRAE. The Windsor Chapter is a well established organization with room to grow. As ASHRAE members, we should all be encouraging co-workers, clients and business associates to consider joining ASHRAE.

Also, a reminder to all members that the membership fees are due. Please send in your payment to Atlanta and to the local chapter, your promptness is appreciated.



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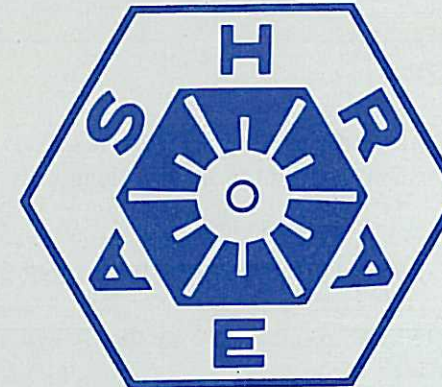
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VOLUME 14

OCTOBER, 1996

NO. 2

## TEGA NIGHT

Tuesday, October 15, 1996

### TOUR OF WEST WINDSOR POWER

**Topic:** Tour and Technical Talk of the West Windsor Power Facility

**Speaker:** Mr. Rheal Caron, Plant Manager

**Tour Guides:** Mr. Charles Davis  
Mr. Bill Carbyn

**Location:** 4375 Sandwich Street  
Windsor, Ontario

**Dinner:** 7:15 p.m.  
TBQ's Other Place, 3065 Dougall Avenue  
Members - \$25.00    Guests - \$30.00

**Note:** Please bring your own hard hat and safety glasses, safety shoes are not necessary

**FOR RESERVATIONS CONTACT:**

James Smith at 948-2600 by Friday, October 11, 1996



## PRESIDENT'S MESSAGE

Our 4th Annual ASHRAE Golf Tournament was a tremendous success with 107 participants, good weather, great golfing and excellent food. We use the tournament as our Membership Day to attract new members to join our organization. The Windsor Chapter has been fortunate to be one of the few chapters who continue to grow and with the success of the golf tournament we are hoping for the same this year.

The Golf tournament could not have been a success without the generous support of Honeywell, our main sponsor. Thanks again to Honeywell and to everyone who donated generously.

This month, we will be touring the West Windsor Power Facility along with a technical talk on the operation of the power plant. This facility is pleased to present ASHRAE with this tour as they are very proud of their plant. After the tour we will meet at TBQ's Other Place for dinner, fellowship and ASHRAE related business.

James Smith  
President

## GOLF TOURNAMENT

On behalf of the Windsor Chapter of ASHRAE, I would like to thank all of those who attended the 4th Annual Golf tournament and those who helped to make the tournament a success by donating prizes. Special thanks goes to Honeywell our main sponsor and to Mr. Fred Smith for donating his time and effort at the registration table and also, to Mr. Bruno Benedetti for taking our pictures.

The winning foursome with a brilliant 64 was, Duncan Walton, Eric Wilson, Wayne College and Chris Racicot. The closest to the Pin Competition for Hole No. 5 was Mark Benedet, Hole No. 12, Ed Gallant and the Longest Drive Competition on Hole No. 13 was Greg Jacobs.

Again, I would like to thank everyone who contributed and we hope to see everyone at next year's tournament.

James Smith  
Golf Committee Chairman

## MEMBERSHIP

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

### ASHRAE TOLL-FREE MEMBER SERVICE LINE

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

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

## ASHRAE WINTER MEETING

**January 25-29, 1997**

Winter Meeting. Philadelphia Marriott, Philadelphia. Contact: ASHRAE Meetings Section, 1791 Tullie Circle, NE, Atlanta, GA 30329; telephone (404) 636-8400, fax (404) 321-5478.

## INTERNATIONAL AIR-CONDITIONING, HEATING, REFRIGERATING EXPOSITION

**January 27-29, 1997**

Pennsylvania Convention Center, Philadelphia. The exposition, co-sponsored by ASHRAE and the Air-Conditioning and Refrigeration Institute, is held during the Society's Winter Meeting. Contact: International Exposition Company, 15 Franklin Street, Westport, CT 06880; telephone (203) 221-9232, fax (203) 221-9260.

## MONTHLY MEETING AGENDA

- October 15, 1996 - Tour of West Windsor Power Plant
- November 19, 1996 - Refrigeration Night
- December 4, 1996 - Ladies Night. To be confirmed.
- January 21, 1997 - To be announced
- February 18, 1997 - Joint Meeting with Ontario Association of Architects' Lawyer
- March 18, 1997 - Past President's Night
- April 15, 1997 - Chatham, Student Night  
TEGA Night
- May 20, 1997 - Student Night, University of Windsor, Elections

## BOARD OF GOVERNORS MEETINGS

- October 30, 1996
- November 26, 1996
- January 7, 1997
- February 25, 1997
- March 25, 1997
- April 22, 1997
- June 20, 1997



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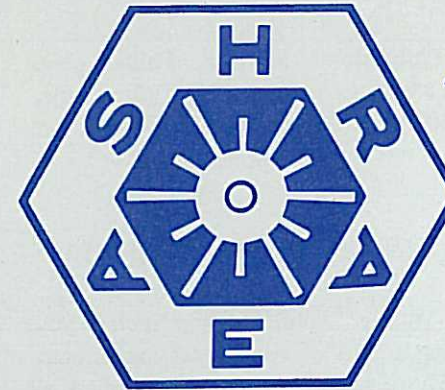
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VOLUME 14

NOVEMBER, 1996

NO. 3

## REFRIGERATION NIGHT/MEMBERSHIP DRIVE

Tuesday, November 19, 1996

## ABSORPTION COOLING

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. Eric Kazlouskis - Engineering Sales Detroit  
 The Trane Company

Topic: The Rebirth of Absorption Cooling  
 - what it is?  
 - where is the industry going?  
 - are hybrid chiller plants feasible?

For Dinner Reservations Contact:

James Smith at 948-2600 by Friday, November 15, 1996



## PRESIDENT'S MESSAGE

This month is our second membership promotion campaign of the year. Our first campaign was the golf tournament. It is encouraged that all members invite and bring a guest to our meeting and show them what ASHRAE is all about.

The society's main goal this year is to have a "net growth in membership". In Windsor, if we have 4 new members, it would provide us with a 5% increase in membership, a relatively simple task to accomplish. With everyone's help this value will easily be reached.

There are 4 main areas the membership campaign will address.

They are:

- (i) Attracting New Members
- (ii) Mentoring or following-up with new members or guests
- (iii) Reducing delinquency and
- (iv) Provide a good chapter program

If you can help in any way, please do.

James Smith  
President

## **SOCIAL NIGHT**

### **December Ladies Night**

**Thursday, December 5, 1996**

**A Night at Windsor Raceway  
including admission and dinner**

- Book in Groups of 4 or 6
- Reserve tickets from Frank Pelisek at 974-5800
- \$22.00 per person (includes dinner)
- Arrival time - 6:00 p.m.
- Post time - 7:30 p.m.

This event has proven to be a very good time for all those who attend. Tickets go fast so call quickly as it is a popular outing. Valet parking is available in addition to the regular parking fee.

Frank Pelisek

## **BOARD OF GOVERNORS MEETINGS**

October 30, 1996  
November 26, 1996  
January 7, 1997  
February 25, 1997  
March 25, 1997  
April 22, 1997  
June 20, 1997

## **ASHRAE WINTER MEETING**

**January 25-29, 1997**

Winter Meeting. Philadelphia Marriott, Philadelphia. Contact: ASHRAE Meetings Section, 1791 Tullie Circle, NE, Atlanta, GA 30329; telephone (404) 636-8400, fax (404) 321-5478.

## **REGIONAL DINNER - PHILADELPHIA**

At the Annual and Winter Meetings of the Society you have an excellent opportunity of meeting all your friends and other visitors from eastern Canada and elsewhere at our Regional Dinner held on the Monday night during the meeting.

We expect a large turnout this year of members, companions and friend with the Winter Meeting "Just Down the Road" in Philadelphia. Plan to be with us. Dress is casual.

Complete details and a sign up sheet will be posted on the "Regional Dinners Billboard" in the main registration area at the Philadelphia Marriott Hotel.

If you are planning to have a large party joining us please contact:

Darryl Boyce - Tel: (519) 661-3302  
Fax: (519) 661-3801

## **ASHRAE ANNOUNCES TECHNICAL PROGRAM FOR 1997 WINTER MEETING**

ATLANTA - The American Society of Heating, Refrigerating and Air Conditioning Engineers has announced the technical program for its 1997 Winter Meeting, January 25-29, in Philadelphia, Pennsylvania.

The technical program features some 250 presentations on diverse topics, integrating topics as energy conservation, alternative refrigerants, utility deregulation with new topics such as residential ventilation and indoor air quality in dentistry suites.

With greater use of residential ventilation, there is a need for data on the performance of residential ventilation systems and energy characteristics. A symposium entitled *Residential Ventilation and Energy Characteristics* will cover measurement and analysis of single family and multi-family systems from energy and IAQ perspectives.

The emerging role of HVAC in dentistry, especially in clinical facilities which house dental procedures, is addressed in a seminar on dentistry and the indoor environment and sources of contamination. Also, the use

and limitations of gaseous and particulate contaminant control strategies, including filters, to improve IAQ are addressed in a forum.

How good are advanced building control strategies? The development, evaluation and implementation of several strategies are addressed in *Implementation of Intelligent Building Control Strategies*, a symposium examining general methods and case studies, while another explores the application of different methods of fault detection and diagnosis to a variety of building HVAC systems. Also, ongoing efforts to improve energy management practices for commercial buildings are presented in a seminar.

Numerous sessions update data on refrigerants and refrigeration processes. Papers presented in the *Practical Considerations in the Use of Refrigerant Mixtures* symposium evaluate various HFC refrigerants in the R-400 series (non azeotropic). Four papers report recent experimental and analytical findings on thermal and fluid flow characteristics, especially heat transfer and pressure drop, of alternative refrigerants. In addition, a back to basics seminar on factors affecting centrifugal chiller performance is presented, and perspectives on the availability of HFC and CFC refrigerants to satisfy demand are presented for Europe, Canada and Mexico. A forum will discuss experiences with R-404a and R-507 applications.

A number of sessions address the application of ASHRAE's indoor air quality standard, ANSI/ASHRAE Standard 62-1989 and its proposed revision, to practice. The use of gas-phase air filtration and how it can improve energy management through the IAQ standard is presented in a seminar. Four practical methods to accurately measure outdoor air ventilation rates for IAQ applications as recommended in Standard 62 are presented in the seminar and, in another, guidance on the application of Standard 62 to variable air volume systems is presented. A forum asks if current design practice needs to be changed to produce good designs to meet air intake to exhaust separation distances required in Standard 62R.

A number of other sessions address codes and ASHRAE standards. A seminar on what's new in refrigeration codes and standards examines new vessels and piping code requirements for refrigeration and updates to the International Mechanical Code, Canadian codes, and related ASHRAE standards. The Issues Update seminar also addresses building code revision for alternate refrigerants and new procedures for the development of appliance standards. A forum asks if ASHRAE standards on IAQ should be based on comfort or health concerns and another addresses the Society's policy on involvement in codes, examining to what extent the involvement should extend.

In the area of smoke control, a symposium entitled *HVAC Systems and Fire* looks at basic issues of fire and smoke

technology. The effects of sprinklered systems, the toxicity of smoke and the effects of HVAC systems are presented in the results of three research projects, two sponsored by ASHRAE. In addition, there will be a seminar on software that evaluates the effect HVAC can have on mitigating fire and smoke hazards.

Any update on the changes occurring in the electrical utilities industry in the U.S. will be examined in the ASHRAE Public Session, organized to present timely issues affecting the HVAC&R industry. The session, titled *What You Need to Know About the Deregulation of Electric Power* will take place Tuesday, January 28, 1997 from 1:00 p.m. - 3:00 p.m. Other sessions also examine the issue, ranging in topics from purchasing electricity in a deregulated marketplace to the rise and fall of real-time pricing.

In all, the program consists of 93 papers presented at 4 technical sessions, 1 poster session and 16 symposia. It also includes 46 seminars and 38 forums.

The 1997 International Air Conditioning, Heating, Refrigerating Exposition, co-sponsored by ASHRAE and the Air Conditioning and Refrigeration Institute, will take place during the Society's Winter Meeting, January 27 - 29, 1997 at the Pennsylvania Convention Centre. For more information on attending the Exposition, contact the International Exposition Company, telephone (203) 221-9232, fax (203) 221-9260.

Registration for the ASHRAE Winter Meeting is \$240 (\$185 ASHRAE member fee). After December 13, registration fee is \$315 (\$240 ASHRAE member fee). To register, contact ASHRAE Customer Service, telephone 1-800-5-ASHRAE (U.S. and Canada) or (404) 636-8400 (worldwide), fax (404) 321-5478, or e-mail orders @ashrae.org.

ASHRAE, founded in 1894, is an international organization of 50,000 persons. Its sole objective is to advance through research, standards writing and continuing education the arts and sciences of heating, ventilation, air conditioning and refrigeration for the public's benefit.



EXECUTIVE

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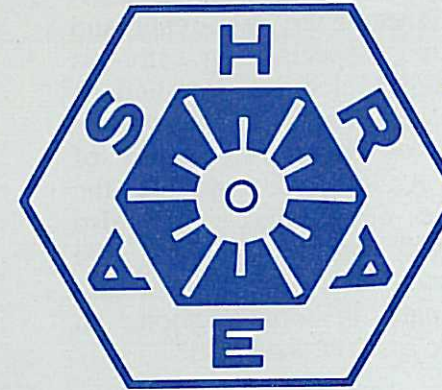
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VOLUME 14

JANUARY, 1997

NO. 4

Tuesday, January 21, 1997

## HVAC AND THE INTERNET

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. Rob Robertson  
 Technical Service Manager  
 Mitsubishi Electric Air Conditioning

Topic: HVAC and the Internet  
 an actual log-on demonstration of the internet  
 and how to effectively use it

For Dinner Reservations Contact:

James Smith at 948-2600 by Friday, January 17, 1997



## **PRESIDENT'S MESSAGE**

Happy New Year to all and hoping everyone has a safe, healthy and prosperous new year.

In December, our ladies night at the Races turned out to be a great night. We had over 50 people in attendance and everyone had an enjoyable evening. Special thanks to Mr. Frank Pelisek for once again, organizing this delightful event.

A reminder to all members. Do not miss the ASHRAE Winter Meeting, January 25 to 29, 1997 in Philadelphia. Hope many of our members can make it out.

Starting this month, our Research Promotion chair, Mr. Frank Frabotta, and his committee, will be canvassing members for contributions. Please recall all of the advantages ASHRAE has for you as Frank is asking for a donation. Please be generous.

James Smith  
President

## **ASHRAE IN MEXICO**

### **Manuel de Anda Chapter Chartered, Society to Co-sponsor AHR Expo-Mexico**

ATLANTA -- The American Society of Heating, Refrigerating and Air-Conditioning Engineers chartered the Manuel de Anda Chapter in Mexico during a special chartering ceremony held November 12, 1996 in Mexico City, Mexico. The Society also announced that it will co-sponsor the first Air Conditioning, Heating, Refrigeration Exposition (AHR Expo-Mexico) to be held in Monterrey, Mexico on September 10-12, 1997.

"The chartering of the Manuel de Anda chapter underscores ASHRAE's dedication to serving our members around the world, especially those living and working outside the U.S. and Canada. As the fastest growing segment of the Society's membership, their participation, enthusiasm and work on behalf of ASHRAE is integral to the Society's ability to achieve its mission of advancing the arts and sciences of HVAC&R technology around the world", said ASHRAE President James E. Hill, Ph.D.

"The Manuel de Anda Chapter becomes the 165th chapter to be chartered since the Society was founded more than 100 years ago and the 11th chapter to be chartered outside the U.S. and Canada. It also is the first ASHRAE chapter to be named after a person," he said.

Manuel de Anda, 1906-1989, was a well-respected consulting engineer, researcher and teacher in Mexico, specializing in air conditioning, hydraulics, electrical installations and fire protection. He taught for many years at the University of Mexico's School of Engineering and Architecture and at the National Polytechnic of Mexico. He also founded and served as president of the Asociacion Mexicana de Empresas del Ramo de Instalaciones para la Construccion, an ASHRAE Associate Society, said Hill.

De Anda's numerous contributions included designing HVAC&R systems for more than 3,000 buildings and power plants. His research focused on measuring solar impingement on windows and developing formulas to calculate the amount of heat gain at different hours throughout the year, said Hill. For more than 40 years (1941-88), he collected climatological data in 840 Mexican cities, which were published by the AMICA and approved by the International Civil Aviation Organization and the United Nations.

ASHRAE and the Air Conditioning and Refrigeration Institute have agreed to co-sponsor the first AHR exposition - Mexico, said Hill. The goal of this new exposition is to further advance HVAC&R technology and to provide a way for manufacturers of HVAC&R products to identify new customers, agents and distributors in the Mexican and Central American markets, he said.

"The AHR Expo-Mexico is patterned after the very successful ASHRAE-ARI co-sponsored AHR Exposition held annually in conjunction with ASHRAE's Winter Meeting. We expect this first exposition to attract more than 4,000 contractors, engineers, wholesalers, representatives, agents, facilities managers and equipment manufacturers and to feature state-of-the-art in HVAC&R systems, equipment and components," he said.

For more information about AHR Expo-Mexico contact the International Exposition Company, 15 Franklin Street, Westport, CT 06880, Tel: 203-221-9232, Fax: 203-221-9260 in the U.S., and in Mexico contact ISOA International c/o Cintermex, Local 33, primer Nivel, Av. Parque Fundidora #501, Col. Obrera 64010, Monterrey, N.L. Mexico, Tel: 011-52-8-369-6627, Fax: 011-52-8-369-6628.

More information about ASHRAE's activities around the world is available on the ASHRAE

Home Page at <http://www.ashrae.org> or contact ASHRAE Customer Service at 1-800-5ASHRAE (1-800-527-4723) in the U.S. and Canada and at 1-404-636-8400 elsewhere.

ASHRAE, founded in 1894, is an international organization of 54,000 persons. Its sole objective is to advance through research, standards writing and continuing education the arts and sciences of heating, ventilation, air conditioning and refrigeration for the public's benefit.

## **ASHRAE Releases BACnet™ Video**

ATLANTA -- A new videotape released by the American Society of Heating, Refrigerating and Air Conditioning Engineers provides insight into the development and implementation of ANSI/ASHRAE Standard 135-1995, BACnet™, A Data Communication Protocol for Building Automation and Control Networks.

BACnet™ is a communication protocol that can be used by virtually any type of building automation equipment, regardless of manufacturer. The standard prescribes a detailed set of rules and procedures that can govern all aspects of communicating information from one cooperating machine to another. The standard can be used to develop appropriate bid specs and provides manufacturers of DDC, EMCS, and other building automation equipment a way to develop communication software that allows BACnet-conformant devices to operate together.

BACnet™ Implementation in Automation and Control Systems, a nearly 2-hour video, is composed of five presentations. H. Michael Newman of Cornell University and chair of the committee that wrote BACnet presents an overview of BACnet, answering four basic questions: What is BACnet? Why was BACnet developed? How does BACnet work? and Where do we go from here?

Harsha M. Dabholkar of Honeywell examines the topic "Communications Networks for Building Control: BACnet, LonTalk and Others." Dabholkar discusses today's customer requirements, benefits of open systems, communication network standards, criteria for evaluation of protocols, user's issues and proposed enhancements.

In the third presentation, entitled "Specifying BACnet," Kim Shinn of Gresham, Smith & Partners, explains when BACnet should be specified, why BACnet should be used, the BACnet vocabulary, conformance classes, function groups, data links, guidelines, and proposed BACnet network architecture.

Steven T. Bushby of the National Institute of Standards and Technology covers BACnet Interoperability Testing in the fourth presentation. Some of the issues Bushby examines include independent testing, the development of

a standard test suite, the BACnet Interoperability testing consortium formed in 1993, the consortium membership, objectives, and accomplishments. The final presentation, by Terry Pierce, regional energy coordinator for the General Services Administration, reports on a large-scale multivendor BACnet test project known as the 450 Golden Gate project. The test project involves the Phillip Burton federal building which is the second largest office building in San Francisco. If the test project is successful and the protocol is used with other federal buildings it is estimated that it could eventually save the federal government as much as \$1.5 billion when applied to the federal buildings across the United States.

The videotape, taped at the Society's 1996 Annual Meeting, is furnished with a booklet that reproduces the charts and graphics presented by the speakers.

To order BACnet™ Implementation in Automation and Control Systems \$49, contact ASHRAE Customer Service, 1791 Tullie Circle, N.E., Atlanta, GA 30329, telephone 1-800-5-ASHRAE (in the U.S. and Canada) or (404) 636-8400 (worldwide), fax (404) 321-5478, e-mail [orders@ashrae.org](mailto:orders@ashrae.org). ANSI/ASHRAE Standard 135-1995 is available in print and CD formats.



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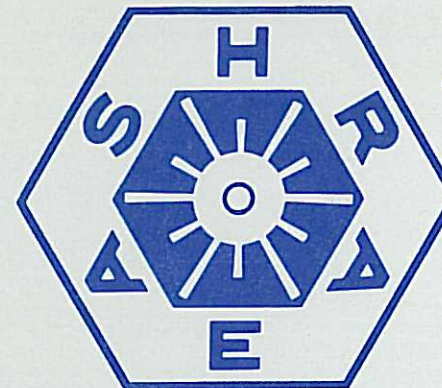
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# ASHRAE...IN WINDSOR!

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

VOLUME 14

FEBRUARY 1997

NO. 5

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

**Tuesday, February 18, 1997**

on

**Issues Facing the Design Build Construction**

at

tbq's OTHER PLACE  
 3065 Dougall Avenue  
 Windsor, Ontario

Fellowship: 5:30 p.m.  
 Dinner: 6:15 p.m. (Cash Bar)  
 Speaker: 7:30 p.m.  
 (ASHRAE Members \$25. Guests \$30)

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

Topic: Design Build Construction

For Dinner Reservations Contact:  
 James Smith at 948-2600 by Friday, February 14, 1997



### **PRESIDENT'S MESSAGE**

This month we will be meeting with the St. Clair Region Society of Architects. Our speaker, Mr. Jim LeBer of Lerner & Associates will be presenting a topic that is of great interest to both of our chapters. This is the third year that we have had a joint meeting and having Jim LeBer present to us. The past meetings have been excellent presentations. Hope to see you there.

Our research promotion campaign is in full swing. Please contribute as generously as possible.

James Smith  
President

### **TABLE TOP DISPLAYS**

One table top display will be presented at this month's meeting.

- Belimo Electric Actuators



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# ASHRAE...IN WINDSOR!

Windsor Ontario Chapter  
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VOLUME 14

MARCH 1997

NO. 6

## PAST PRESIDENTS NIGHT

Tuesday, March 18, 1997

CITY OF WINDSOR

## BUILDING DEPARTMENT GUIDELINES

at

tbq's OTHER PLACE  
 3065 Dougall Avenue  
 Windsor, Ontario

Fellowship: 5:30 p.m.  
 Dinner: 6:15 p.m. (Cash Bar)  
 Speaker: 7:45 p.m.  
 Discussion Period 8:15 p.m.  
 (ASHRAE Members \$25. Guests \$30)

Speaker: Mr. Ed Link  
 Building Commissioner, City of Windsor

also attending, Mr. Gary Désilets, Mechanical Plans  
 Examiner and several heating inspectors

Topic: City of Windsor Building Department Guidelines  
 and discussion period

For Dinner Reservations Contact:  
 James Smith at 948-2600 by Friday, February 14, 1997



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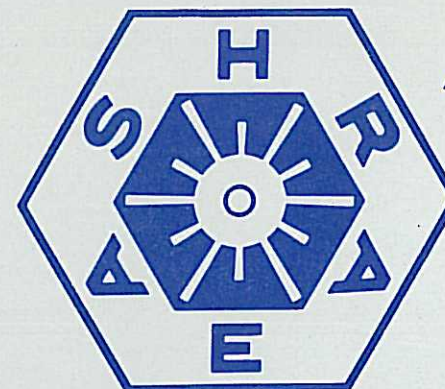
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# ASHRAE...IN WINDSOR!

Windsor Ontario Chapter  
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VOLUME 14

APRIL 1997

NO. 7

## STUDENT NIGHT

TUESDAY, APRIL 22, 1997

HOME OF THE FUTURE

AND

ASHRAE STUDENT AWARD PRESENTATION

FOR MIKE MAHU

STUDENT PRESENTATION - HVAC PROGRAMS FROM THE INTERNET

at

Smitty's Restaurant  
 307 Grand West  
 Chatham, Ontario

Fellowship: 5:30 p.m.  
 Dinner: 6:15 p.m. (Cash Bar)  
 Speaker: 7:45 p.m.  
 Discussion Period 8:15 p.m.  
 (ASHRAE Members \$25. Guests \$30)

Speaker: Mr. Andrew Comstock, P. Eng.  
 Union Gas Limited/Centra Gas (Ontario) Inc.

Topic: A visionary look into the home of the future. What you may have thought was futuristic, is available and affordable today!

- Energy Management
- Safety and Security
- Home Automation

For Dinner Reservations Contact:  
 James Smith at 948-2600 by Monday, April 21, 1997



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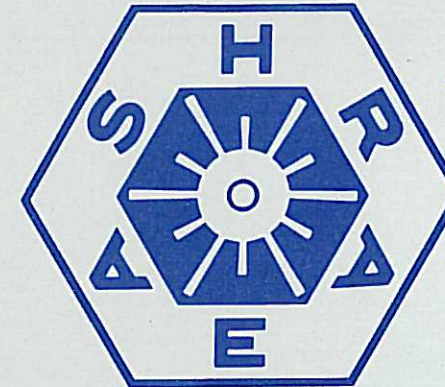
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VOLUME 14

MAY 1997

NO. 8

## INTRODUCTION OF 1997-98 EXECUTIVE

### RIB NIGHT

TUESDAY, MAY 20, 1997

## CONSTRUCTION BONDING & BONDING TRENDS

at

TBQ's Other Place  
 3067 Dougall Avenue  
 Windsor, Ontario

Fellowship: 5:30 p.m.  
 Dinner: 6:15 p.m. (Cash Bar)  
 Speaker: 7:45 p.m.  
 Discussion Period 8:15 p.m.  
 (ASHRAE Members \$25. Guests \$30)

Speaker: Mr. Dave Toombs, Broker  
 Paterson Insurance Brokers Ltd.

Topic: Information and Discussion on Construction  
 Bonding:  
 - the trends in Bonding

Also, come and welcome in our new executive for next year:

President - Greg Dufour  
 President-Elect - Brian Dayus  
 Treasurer - Ken Wilson  
 Secretary - Ken Thompson

For Dinner Reservations Contact:  
 James Smith at 948-2600 by Monday, May 19, 1997





# ASHRAE...IN WINDSOR!

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VOLUME 14

MARCH 1997

NO. 6

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Tuesday, March 18, 1997

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**BUILDING DEPARTMENT GUIDELINES**

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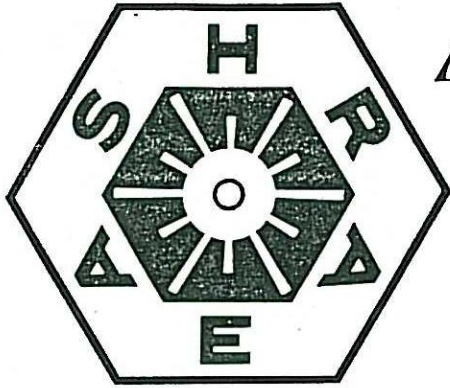
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also attending, Mr. Gary Désilets, Mechanical Plans  
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**Topic:** City of Windsor Building Department Guidelines  
and discussion period

**For Dinner Reservations Contact:**  
James Smith at 948-2600 by Friday, February 14, 1997





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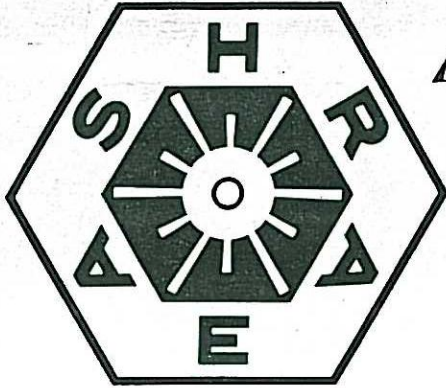
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