

## ASHRAE CHAPTER INFORMATION QUESTIONNAIRE

Complete and mail to Headquarters, ASHRAE, 1791 Tuille Circle N.E., Atlanta, Georgia, 30329, Telephone: (404) 636-8400, with a copy to your Regional Chairperson. Addresses should be the same as used for other Society mailings, including your Journal, Handbook and miscellaneous mailings. Please notify Headquarters and Regional Chairperson promptly of questionnaire changes.

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

**CHAPTER: WINDSOR**

**# 141**

**1993 -94 SOCIETY YEAR**

### MEETING DATES FOR THE UPCOMING FISCAL YEAR

July - None	October 19	January 18	April 19
August - None	November 16	February 15	May 17
September 21	December 7	March 15	June - None

Regular Meeting Location: TBQ,s Other Place, Windsor, Ontario

### PRESIDENT

Donald Winkup ( 2026793 )  
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Self Employed  
Phone: (519) 973-2866  
FAX: (519) 973-2895

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Lafontaine, Cowie & Burratto  
Phone: (519) 966-2250  
FAX: (519) 966-5523

### BOARD OF GOVERNORS

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Union Gas Ltd.  
Phone: (519) 436-5278  
FAX: (519) 436-5325

### PRESIDENT - ELECT

Steve Koutsonicolas ( 2048489 )  
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FAX: (519) 972-1525

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Baymar Air Conditioning Supply  
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FAX: (519) 974-5803

### BOARD OF GOVERNORS

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### BOARD OF GOVERNORS

Andres Hrutka ( 2015730 )  
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## MEMBERSHIP

Andres Hrutka ( 2015730 )

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## PROGRAM COMMITTEE

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## REGIONAL CHAIR

Dalton McIntyre  
  
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Ottawa, Ontario K1V 7A1  
  
Phone: (613) 523-1651  
Fax: (613) 523-1651

## ASHRAE HEADQUARTERS

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ASHRAE  
1791 Tuille Circle N.E.  
Atlanta, Georgia, USA 30329  
  
Phone: (404) 636-8400  
Fax: (404)

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**NEWSLETTERS**

## FUTURE MEETINGS

**TUESDAY, OCTOBER 19, 1993**

**Speaker:** Jeff Adair  
**Topic:** Radiant Panel Heating & Cooling Systems

**TUESDAY, NOVEMBER 16, 1993**

**\*\* TEGA Night \*\***  
**Speaker:** Loren Smith (to be confirmed)  
**Topic:** Cleaver Brooks Boilers

**TUESDAY, DECEMBER 7, 1993 (Date to be Confirmed)**

**\*\* Social Night \*\* - A Night at the Races at Windsor Raceway**  
Organized by Frank Pelisek

**TUESDAY, JANUARY 18, 1994**

**\*\* Refrigeration Night \*\***  
**Speaker:** From The Ministry of Environment & Energy  
**Topic:** CFC's

**TUESDAY, FEBRUARY 15, 1994**

**\*\* Research Night \*\***  
**Speaker:** John Sofra  
**Topic:** United McGill, Acoustics

**TUESDAY, MARCH 15, 1994**

**\*\* Historian Report \*\***  
**Speaker:** To Be Confirmed  
**Topic:** Tour of University of Windsor Co-Generation Facility

**TUESDAY, APRIL 19, 1994 (Meet in Chatham)**

**\*\* Education Night \*\* - Student Papers (St. Clair College)**  
**Topic:** Flash Freezing

**TUESDAY, MAY 17, 1994**

**\*\* Election Night \*\***  
**Speaker:** Bill McIntosh  
**Topic:** Construction & Engineering in the Windsor Area

RE: Upcoming Professional Development Seminar(s) in your Region

**Increase Your Professional Knowledge -  
Keep Abreast of Changing Technologies -**

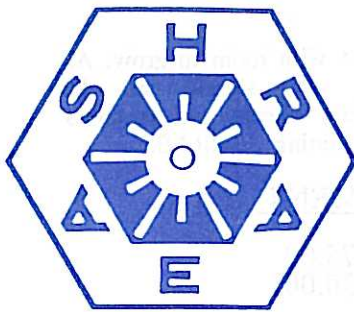
**Attend ASHRAE's  
Professional Development Seminars (PDS)**

**"Automatic Temperature Controls"  
November 1-2, 1993**

**"DDC for HVAC Monitoring & Control"  
November 3-4, 1993**

**in  
Toronto**

For a complete program brochure and registration  
information contact Marietta Henry at ASHRAE  
Headquarters (404-636-8400, Fax 404-321-5478)



# NEWSLETTER

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

VOLUME 11

SEPTEMBER, 1993

NO. 1

## MEMBERSHIP DAY

**Monday, September 20, 1993**

## GOLF TOURNAMENT

at

### POINTE WEST GOLF CLUB

200 Golfwood Drive - Amherstburg, Ontario

Registration Table Open:	9:00 am
Tee Off Times:	10:00 am - 12:00 pm
Dinner:	6:00 pm (Cash Bar)
Prize Presentations:	7:00 pm
Program:	7:30 pm

- Members must call James Smith at 948-2600 by **September 10, 1993** for reservations.
- For our program we will hear a talk by **Mr. Chris Beuglet** of Union Gas Limited dealing with **THERMO KING NATURAL GAS ENGINE DRIVEN ROOFTOP UNITS**. There are three such units installed at Pointe West Golf Club and Chris will be discussing the economical feasibility of this installation.



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

VOLUME 11

No. 2

## OCTOBER MEETING

### NEW MEETING LOCATION

Tuesday, October 19, 1993

### FOGOLAR FURLAN CLUB

1800 E. C. Row  
Windsor, Ontario

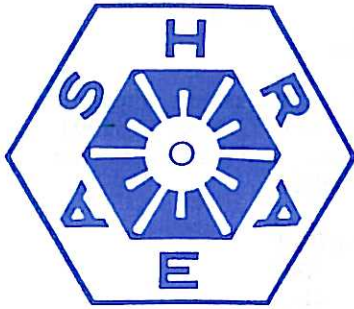
<b>Fellowship:</b>	5:30 pm (Cash Bar)
<b>Dinner:</b>	6:15 pm
<b>Speaker:</b>	7:15 pm

(Members \$20, Students \$10, Guests \$24)

- For dinner reservations, call Andy Hrutka at 969-1152 by Friday, October 15, 1993.

**Guest:** Mr. Geoff Adair, P.Eng. of Engineered Air

**Topic:** Radiant Panel Systems



# NEWSLETTER

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

VOLUME 11

No. 3

## NOVEMBER MEETING

**\*\* TEGA NIGHT \*\***

Tuesday, November 16, 1993

### FOGOLAR FURLAN CLUB

1800 E. C. Row  
Windsor, Ontario

<b>Fellowship:</b>	5:30 pm (Cash Bar)
<b>Dinner:</b>	6:15 pm
<b>Speaker:</b>	7:15 pm

(Members \$20, Students \$10, Guests \$24)

- For dinner reservations, call Andy Hrutka at 969-1152 by Friday, November 12, 1993.

**Guest:** Mr. Loren Smith, P.Eng., Consultant to the boiler industry concerning package boilers and ancillaries up to 1000 BHP.

**Topic:** Boilers, Efficiency and Emissions



1994 ASHRAE WINTER MEETING - NEW ORLEANS, LOUISIANA

January 22-26, 1994

The Technical Program will take place at the New Orleans Hilton

EDITORS - If you have any questions about this Technical Program, please contact:

Anthony Giometti  
Public Relations Manager  
ASHRAE  
1791 Tullie Circle NE  
Atlanta, GA 30329  
Tel: 404/836-8400, ext. 811  
Telefax: 404/321-5478

Evaluation of Thermal Environments Using a Thermal Manikin with Controlled Skin Surface Temperature

A Theoretical Study of a Personal Cooling Garment Using Natural Evaporation

Analysis of Heat and Mass Transfer Performance of Cooling Coils at Part-Load Operating Conditions

Characteristic Study of Sprayed Fluid Flow in a Tube Bundle

Vapor Compression Cycle with Solution Circuit

*Moisture Control and Legionella*

Development of Moisture Storage Coatings for Enthalpy Storage Wallboard

The Use of Heat Pipe Heat Exchangers for Enhanced Dehumidification

Ventilation, Humidity, and Condensation in Manufactured Houses During Winter

Operating an Ice Rink Year-Round by Using a Desiccant Dehumidifier to Remove Humidity

The Measurement of the Humidity Ratio of Moist Air Using a Thermo-Hygrometer

Measurement of Drift Loss from Cooling Towers

Field Test for Minimizing Legionella in Cooling Water in Japan

Ultraviolet Light Irradiation of Potable Water for Legionella Colonization in a Hospital Water Distribution System

*HVAC Systems and Controls*

Design Sensitivity Analysis for Optimal Temperature Control of Radiant Electric Slab

Real-Time, On-Line Optimization of VAV System Control to Minimize the Energy Consumption Rate and to Satisfy ASHRAE 62-1989 for All Occupied Zones

CAT (Computer-Aided Tuning) Software for PID Controllers

An Investigation and Analysis of Operating Building Facilities by a Remote Monitoring System

Knowledge Acquisition for the Development of a Knowledge-Based System for HVAC System Type Selection—RP-642

Development of a Knowledge-Based System for HVAC System Type Selection. Part II: Expert System Shell—RP-642

A Dynamic Model of a Multizone VAV System for Control Analysis

Validation of A Run-Around Heat Recovery System Mode

Sunday, 1/23 - 10:15 a.m.

**Symposia**

Advances In Flow and Heat Transfer In Heat Exchangers I

HVAC for People—1

Open Cooling Water Systems

Building Operation Applications of Computer Technology

**Seminars**

Complying with the Clean Air Act Amendments of 1990

New Developments In User-Friendly Interface for Load Calculation Programs

Water Treatment Considerations In Hydronic System Commissioning

Governmental Policy and Equipment Performance Standards Update for Ground-Source Heat Pumps

**Forums**

What Performance Measures Should Be Developed for Rating Cogeneration Systems?

Humidification Technology and Indoor Air Quality Contaminants, Problems, Conflicts, and Solutions

Is Scheduling of ASHRAE Programs Responsive to Member Needs?

Experiences with Esters in Retrofit and Service

Sunday, 1/23, 12:30 p.m.

**Symposia**

Part-Load and Seasonal Efficiencies of Large (>3,0 Btu/h) Space-Heating Boilers, Part II

Animal Facility Ventilation: Design Concepts and Effects on Animal and Human Physiology

Recent Research in Service Water Heating

Smoke Control Technology

The Control of Radiant Systems

**Seminars**

Commissioning Special Use Facilities

Complying Under the Clean Air Act Amendments of 1990—Part I: Characterization of Equipment

Performance Testing of R-22 Alternatives

**Forums**

What Role Should ASHRAE Take In Developing Techniques/Procedures for Cooling Gas Turbine Inlet Air

The Seismic Design Process Viewed through Multiple Disciplines

Experiences In Design and Operation of Atrium Buildings

What Good Is the Indication and Recording of Total kW/Ton for a Chiller Plant?

Monday, 1/24 - 8:00 a.m.

**Symposia**

Advances In Fenestration Analysis and Testing

Refrigeration System and Refrigerant Choices for District Cooling

**Seminars**

Noise Comfort Issues for the Indoor Environment

Performance Prediction and Testing of Advanced Component Heat Pumps

Tunnel Ventilation and Fire Life Safety

Federal Risk Assessments: Any Answer You Want!

Energy Resource Availability Forecasting and Pricing

University/Industry Collaborative HVAC Education Programs

Materials Compatibility and Lubricants Research—Alternative Refrigerants

**Forums**

Why Not Use Ammonia-Based Air-Cooled Rooftop Chillers For Air Conditioning?

Should Aluminum Tubing Be Considered for Water-to-Ammonia Heat Exchangers?

Implications of Sprinkler Research on Smoke Control

What Are the Design Needs to Better Understand Supply/Ventilation Systems in the Industrial Environment

Monday, 1/24 - 9:00 a.m.

**Poster Session II**

*Airflow and Ventilation Analysis*

Numerical Simulation of Two-Dimensional Room Airflow with and without Buoyancy

Experimental Studies on the Airflow Characteristics of Air-Conditioned Spaces

Duct Fitting Data Enhancements and Data Base Development

Predicting the Temperature, Humidity, Pressure, and/or Density Effects on Velocity Instrumentation

Development of a Building Component Air Leakage Data Base—RP-438

Sunday, 1/23 - 8:00 a.m.

**Symposia**

Combustion Turbine Inlet Cooling with Thermal Energy Storage

Advances In Flow and Heat Transfer In Heat Exchangers II

International Symposium on Atrium Performance

What Engineers Should Know About Testing and Balancing

**Seminars**

DDC Strategies for Terminal Unit Controllers

Chemistry of Alternative Refrigerants and Lubricants

Advances In Environmentally Responsible Buildings and Materials

Development of ASHRAE/IES Standard 90.1-1989R

**Forums**

If I'm Supposed to Operate This Thing, Why Wasn't I Asked?

Should the Basis for Calculation of Design Temperatures be Changed for the 1997 Handbook—Fundamentals?

Interest in Sponsoring Research to Develop Procedures and Guidelines to Measure Sound Power Levels of Room Air Conditioners

Should a Seasonal Efficiency Be Used to Rate the Performance of Room Air Conditioners?

Sunday, 1/23 - 9:00 a.m.

**Poster Session I**

*Basic Principles and Data*

Relationships Between Irreversibility (Energy Destruction) and Entropy Generation for Systems and Components

*The Psychrometric Chart*

Development of a Toolkit for Secondary HVAC System Energy Calculations  
ASHRAE Design Guide for Cool Thermal Storage

1994 Winter Meeting in New Orleans, La., January 22-26.

Among the topics discussed are moisture control and legionella; HVAC systems and controls, including programming considerations for developing knowledge-based systems for selecting HVAC systems and components for small office buildings; the human response to the indoor environment; smoke control and noise control technologies; and how engineers can comply with the Clean Air Act Amendments of 1990.

A number of sessions will address the development of alternative refrigerants and retrofitting equipment and systems. Specific topics addressed include system chemistry of alternative refrigerants and lubricants, experiences with esters in retrofit and service of refrigeration equipment, and performance testing of R-22 and R-502 alternatives.

Among application-oriented presentations will be advances in environmentally responsible buildings and materials, variable speed motor technology in HVAC, containment and containment control for improving indoor air quality (IAQ) in schools, and energy resources availability forecasting.

Also, two sessions will relate ASHRAE Standards on energy conservation and IAQ to practice: an update of the changes proposed for the next revision to ASHRAE/IES Standard 90.1-1989 and how ASHRAE Guideline 4 Operating and Maintenance Documentation for Building Systems can be used by designers, maintenance managers, contractors and building owners.

In all, ASHRAE's 1994 Winter Meeting Technical Program will feature 49 papers presented in 2 poster sessions, 32 symposia featuring 128 papers, 45 seminars with 190 presentations and 34 forums.

The New Orleans Hilton will be the site of the ASHRAE technical program and most committee meetings.

On-site registration fee is \$250 (\$190 ASHRAE member fee). For additional meeting information, contact the ASHRAE Meetings Department, 1791 Tullie Circle, N.E., Atlanta, GA 30329; telephone 404/636-8400; fax 404/321-5478.

Also, the 1994 International Air-Conditioning, Heating, Refrigerating exposition, co-sponsored

by ASHRAE and the Air-Conditioning and Refrigeration Institute, will take place January 24-26 at the New Orleans Convention Center. For exposition information, contact the International Exposition Co., 15 Franklin St., Westport, CT 06880, telephone 203/221-9232, fax 203/221-9260.

See enclosed listing of the various seminars, symposia, forums and poster sessions.

#### FUTURE MEETINGS

**WEDNESDAY, DECEMBER 8, 1993**

**\*\*Ladies Night\*\*** - A Night at the Races at Windsor Raceway, Organized by Frank Pelisek

**TUESDAY, JANUARY 18, 1994**

**\*\*Refrigeration Night\*\***

**Speaker:** From the Ministry of Environment and Energy

**Topic:** CFC's

**TUESDAY, FEBRUARY 15, 1994**

**\*\*Research Night and visit from Dalton McIntyre\*\***

**Speaker:** John Sofra

**Topic:** United McGill, Acoustics

**TUESDAY, MARCH 15, 1994**

**\*\*Historian Report\*\***

**Speaker:** To be confirmed

**Topic:** Tour of University of Windsor Co-Generation Facility

**TUESDAY, APRIL 19, 1994** (Meet in Chatham)

**\*\*Education Night\*\*** - Student Papers (St. Clair College)

**Topic:** Flash Freezing

**TUESDAY, MAY 17, 1994**

**\*\*Election Night\*\***

**Speaker:** Bill McIntosh

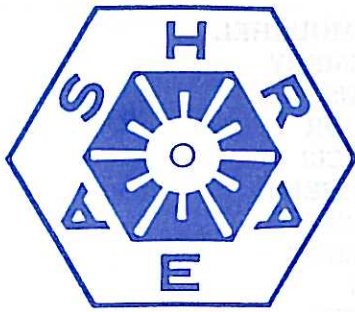
**Topic:** Construction & Engineering in the Windsor Area

#### NEWSLETTER

There will be no newsletter published for the month of December.

If you would like to have an announcement or article published in a future chapter newsletter, send it by fax to Jeff Wilson at 948-2700.





# NEWSLETTER

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

VOLUME 11

No. 4

## JANUARY MEETING

**\*\* REFRIGERATION NIGHT \*\***

Tuesday, January 18, 1994

**FOGOLAR FURLAN CLUB**

1800 E. C. Row

Windsor, Ontario

<b>Fellowship:</b>	5:30 pm (Cash Bar)
<b>Dinner:</b>	6:15 pm
<b>Speaker:</b>	7:15 pm

(Members \$20, Students \$10, Guests \$24)

- For dinner reservations, call Andy Hrutka at 969-1152 by Friday, January 14, 1994.

**Guest:** Mr. Bill McCartney

**Topic:** CFCS - Latest Government Regulations

**Product Display:** by Stuart Lockhart on Refrigeration

now has established a complete set of support materials that will allow energy-efficient building criteria to be implemented.

"ASHRAE now has in place a complete package to meet the needs of building code officials and design professionals. A standard of professional practice (Standard 90.1-1989), which contains quality technical provisions and design guidance; a user's manual (Standard 90.1-1989 User's Manual), which provides detailed guidance and examples on how to interpret and use the technical provisions; an education program (Professional Development Seminar "Energy Efficient Buildings: Complying with Standard 90.1"), which provides training on how to comply with the standard; and a code language version, entitled Standard 90.1-1989 -- Energy Code for Commercial and High Rise Residential Buildings Based on ASHRAE/IES Standard 90.1-1989, which presents the requirements of the standard in legally enforceable code language and format with guidance on how to incorporate it into state and local building codes. This is a major accomplishment and a public service," said Boulin.

The code language version was written to fill an expressed need of federal, state and local officials responsible for updating and revising building codes to incorporate new energy efficiency standards as mandated by the Act. Many of the more than 40 separate provisions in the Act relevant to the HVAC industry are based on ASHRAE/IES Standard 90.1-1989.

ASHRAE President Neil R. Patterson, P.E., said, "Rather than have multiple states develop multiple code versions of Standard 90.1, and risk having some of the technical provisions in the standard modified or deleted, ASHRAE decided to 'codify' the standard. With this code language version, state officials will be able to adopt the required technical provisions cited in the standard into, their building codes quickly and easily."

The code language version and the standard differ in several significant ways, including how information is organized and presented. The code language version is written in enforceable code language, with many of the recommended or unenforceable provisions of the standard deleted and other criteria needed for a model code added.

Many of the technical provisions are contained in one chapter, and they have been

reformatted to follow more common energy code formats. A chapter on Administration and Enforcement has also been added, which will allow the code language version to be used directly by state and local regulatory agencies. To make the code language version easier to use, certain tables have been expanded to include space to perform required calculations.

In addition, alternative Component Package (ACP) tables, which contain criteria dependent on climatic or location variables, have been added. Because of the geographic and climatic differences between states, the ACP table(s) for the buyer's state only will be included with the code language version. The result is a document that is smaller in size than the standard, tailored to specific locations and can be more easily interpreted and adopted.

The format of the code language version is loose-leaf in a 6" x 8" 3-ring binder. ACP tables for each state, including a complete set of all ACP tables (more than 500 pages), are available for sale. To order ASHRAE Standard 90.1 code language version (\$98.00, \$65.00 ASHRAE member price), contact Publication Sales at ASHRAE Headquarters, 1791 Tullie Circle, N.E., Atlanta, GA 30329, telephone 404/636-8400, fax 404/321-5478.

#### FUTURE MEETINGS

**TUESDAY, FEBRUARY 15, 1994**

**\*\*Research Night and visit from Dalton McIntyre\*\***

**Speaker:** John Sofra  
**Topic:** United McGill, Acoustics

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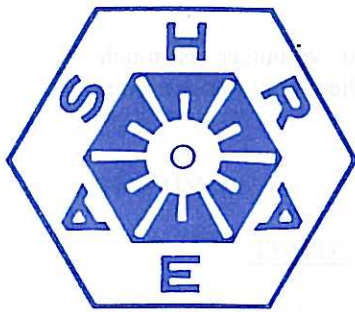
**Topic:** Flash Freezing

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**Speaker:** Bill McIntosh  
**Topic:** Construction & Engineering in the Windsor area





# NEWSLETTER

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

VOLUME 11

No. 5

## FEBRUARY MEETING

**\*\* RESEARCH NIGHT \*\***

Tuesday, February 15, 1994

**FOGOLAR FURLAN CLUB**

1800 E. C. Row  
Windsor, Ontario

<b>Fellowship:</b>	5:30 pm (Cash Bar)
<b>Dinner:</b>	6:15 pm
<b>Speaker:</b>	7:15 pm

(Members \$20, Students \$10, Guests \$24)

- For dinner reservations, call Andy Hrutka at 969-1152 by Friday, February 11, 1994.

**Guest:** Mr. John Sofra

**Topic:** United McGill, Acoustics

cooling industries cooperation in establishing new HCFC refrigerants may have an impact on recent stabilization of CFC concentrations in the atmosphere.

Scientists reported in the ASHRAE insights that these concentrations are likely to decline after the year 2000 and continue to do so for quite some time. This is very good news and we as ASHRAE members should be proud.

Mark Benedet

### RESEARCH AND PROMOTION CHAIRMAN'S REPORT

The Windsor Chapter "Research 94" Campaign has begun. Look for a letter and a return form shortly. Help "your" committee by calling Frank Pelisek before he calls you.

Frank Pelisek

### MEMBERSHIP

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

Local chapter dues can be paid through our chapter. Just send your dues to Andy Hrutka at Suburban Distributors, 2779 Howard Avenue, Windsor, N8X 3X7 or pay Andy at our next Chapter meeting.

### ASHRAE APPROVES 1.3 MILLION IN RESEARCH

NEW ORLEANS -- More than \$1.3 million for 17 new HVAC&R-related research projects was approved by the American Society of Heating, Refrigerating and Air-Conditioning Engineers at its 1994 winter meeting held in New Orleans, La. January 22-26.

Four projects study indoor air quality and occupant comfort:

- Field Study of Occupant Comfort and Office Thermal Environments in a Cold Climate, RP-821, contracted by ADN, Inc./ Concordia, Montreal, Quebec, Canada, for 1 year, at a \$100,190 cost.

- An Evaluation of the Effect of CO<sub>2</sub>-based Demand Controlled Ventilation Strategies on Energy use and Occupant Source Contamination Concentrations, RP-740, Enermodal Engineering, Waterloo, Ontario, Canada, 14 months, \$52,760.

- Identification of contaminants, Exposures, Effect and Control Options for Construction/Renovation Activities: Phase I, RP-804, University of Minnesota, 6 months, \$26,370.

- Sequences of Extreme temperature and Humidity for Design Calculations, RP-828, University of Kentucky, 28 months, \$69,867.

Two projects study energy conservation:

- Building Insulation System Thermal Anomalies, RP-785, Enermodal Engineering, Waterloo, Ontario, Canada, 14 months, \$134,850.

- Measurement of Electric Inputs To Variable speed Motors and their Solid State Power converters, RP-770, University of Florida, 18 months, \$77,202.

Design tools for various engineering applications will result from nine projects:

- Moisture Transfer in Porous Materials Exposed to Combined humidity and Temperature gradients, RP-810, Virginia Polytechnic Institute, 2 years, \$122,785.

- Experimental Determination of Heat Transfer in Water Cooled Condensers and Direct Expansion Water Coolers Using Brazed Plate Heat Exchangers, RP-752, university of Missouri-Columbia, 2 years, \$109,271.

- Guide to the Proper Application and Use of Manufacturers' Sound Data on HVAC&R Equipment, RP-786, Scantek, Inc., Silver Spring, Md., 18 months, \$74,000.

And Much more.

### FUTURE MEETINGS

**TUESDAY, MARCH 15, 1994**

**\*\*Historian Report\*\***

**Speaker:** Dan Castellan

**Topic:** Tour of University of Windsor Co-Generation Facility

**TUESDAY, APRIL 19, 1994 (Chatham)**

**\*\*Education Night\*\* - Student Papers (St. Clair College)**

**Topic:** Flash Freezing

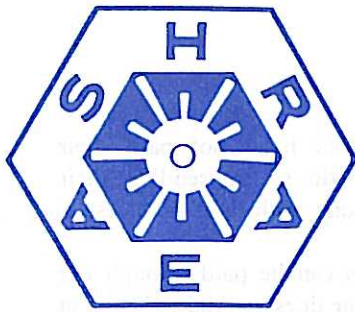
**TUESDAY, MAY 17, 1994**

**\*\*Centennial/Election Night\*\***

**Speaker:** Bill McIntosh

**Topic:** Construction & Engineering in the Windsor area





# NEWSLETTER

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

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## MARCH MEETING

Tuesday, March 15, 1994

UNIVERSITY OF WINDSOR - VANIER HALL  
Windsor, Ontario

<b>Cocktails:</b>	Vanier Hall - Cenntenal Room	5:30 pm
<b>Dinner:</b>	Vanier Hall - Rose Room	6:30 pm
<b>Presentation:</b>	Vanier Hall - Rose Room	8:00 pm
<b>Tour:</b>	Energy Conversion Centre (ECC)	8:30 pm
<b>Parking:</b>	Under Bridge, Huron Church Rd.	

(Members and Non-Member Students \$20, Member Students \$10, Guests \$24)

- For dinner reservations, call Andy Hrutka at 969-1152 by Friday, March 11, 1994.

**Guest:** Mr. Dan Castellan, P.Eng.  
Project Engineer, Physical Plant and Planning  
University of Windsor

**Topic:** University of Windsor Co-generation Project  
Presentation and Tour; Project conception,  
design & construction and application for  
Campus Heating & Cooling, & Tour of  
Facility

..anyone who would like a name tag please call James Smith at  
948-2600 - cost is \$5.00..

Two new courses are offered for the first time: "Fundamentals of Industrial Ventilation," which covers identifying, selecting and designing systems for process emission/exposure control, and "Design of Smoke Management Systems," co-sponsored with the Society of Fire Protection Engineers.

Titles, dates and locations of courses offered during spring are:

"Design of Smoke Management Systems," March 28-29, Washington, D.C.; June 1-2, Los Angeles, Calif.; September 20-21, Chicago, Ill.; Nov. 10-11, Toronto, Ontario, Canada.

"Fundamentals of Industrial Ventilation," April 11-12, San Diego, Calif.

"Energy Efficient Buildings: Complying with Standard 90.1," April 13-14, San Diego, Calif.; May 10-11, Nashville, Tenn.

"Refrigeration Systems for Air Conditioning and Industry," April 18-19, Atlanta, Ga.

"Automatic Temperature Control," April 19-20, Dallas, Texas.

"Design of Thermal Storage Systems," April 20-21, Atlanta, Ga.

"DDC for HVAC Monitoring and Control," April 21-22, Dallas, Texas.

"Air System Design and Retrofit," May 3-4, Seattle, Wash.

"Water System Design," May 5-6, Seattle, Wash.

"Testing, Adjusting, and Balancing," May 10-11, Baltimore, Md.

"Indoor Air Quality," May 12-13, Baltimore, Md.

Persons successfully completing each seminar will earn 1.2 continuing education units.

Registration fee for most seminars is \$605 (\$530 ASHRAE member fee). In house seminars and discounts for groups are available. For more information, contact the Education

Coordinator, ASHRAE, by mail, 1791 Tullie Circle, NE, Atlanta, GA 30329; by telephone, 404/636-8400; or by fax, 404/321-5478.

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.

### ORLANDO SELECTED AS 1994 ASHRAE ANNUAL MEETING SITE

New Orleans -- The American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) has announced that its 1994 Annual Meeting will be held June 25-29 in Orlando, Florida. The annual meeting will kick off a year long celebration of the Society's centennial anniversary.

The headquarters hotel will be the Buena Vista Palace hotel, located in the Disney Village Resort area, where the technical program and ASHRAE committee meetings will take place.

Also during the meeting, Society officers for the 1994-95 year will be announced.

Prior to May 20, advance registration fee is \$190 (\$145 ASHRAE member fee). After May 20, registration fee is \$250 (\$190 ASHRAE member fee). For more information, contact ASHRAE Meetings, 1791 Tullie Circle, N.E., Atlanta, GA 30329, 404/636-8400, FAX 404/321-5478.

### FUTURE MEETINGS

**TUESDAY, APRIL 19, 1994 (Chatham)**

**\*\*Education Night\*\*** - Student Papers (St. Clair College)

**Topic:** Flash Freezing

**TUESDAY, MAY 17, 1994**

**\*\*Centennial/Election Night\*\***

**Speaker:** Bill McIntosh

**Topic:** Construction & Engineering in the Windsor area



**SHIFT IN GLOBAL SOURCES OF ENERGY ADDRESSED IN ASHRAE SESSION**

**Impact on Public, Building Industry Examined**

ATLANTA -- The changing political climate surrounding global energy resources and the resultant new opportunities for the building industry will be addressed in a public session sponsored by the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) at its 1994 annual meeting, June 25-29 in Orlando, Fla.

Indepth coverage of the historical, social, economic and political activities that surround the worldwide search, development and use of energy sources will be addressed by Ralph Lewis, Jr., in the session entitled "The World of Energy and Alternate Fuels -- The Global Struggle."

"During the past few years, countries that were once considered to be super powers in the domain of global energy resources are now a collection of fragmented entities that are striving to become organized," Lewis said. Insight into what brought on the changes will be addressed along with the likely consequences. Also, Lewis will examine opportunities for the building industry in countries that previously did not have access to energy.

Lewis, a retired vice president of Gulf Oil and a senior consultant to the Chevron Corporation, will present his remarks during a public session to be held Sunday, June 26 at the Buena Vista Palace hotel in Orlando, Fla. Admission to the sessions free.

For more information about ASHRAE's annual meeting, contact the meetings Department, ASHRAE, 1791 Tullie Circle, N.E., Atlanta, GA 30329, telephone 404/636-8400, fax 404/321-5478.

ASHRAE, founded in 1894, is an international organization of 50,000 persons. Its sole purpose is to advance the arts and science of heating, ventilating, air conditioning and refrigeration for the public's benefit.

**LAST MEETING**

**TUESDAY, MAY 17, 1994**

**\*\*Centennial/Election Night\*\***

**Speaker:** Bill McIntosh

**Topic:** Construction and Engineering in the Windsor area



# NEWSLETTER

*Windsor Ontario Chapter*  
*American Society of Heating, Refrigerating and*  
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## MAY MEETING

**\*\* ELECTION / HISTORIAN'S NIGHT \*\***

Tuesday, May 17, 1994

**FOGOLAR FURLAN CLUB**

1800 E. C. Row  
Windsor, Ontario

<b>Fellowship:</b>	5:30 pm (Cash Bar)
<b>Dinner:</b>	6:15 pm
<b>Speaker:</b>	7:15 pm

(Members \$20, Students \$10, Guests \$24)

- For dinner reservations, call Andy Hrutka at 969-1152 by Friday, May 13, 1994.

**Guest:** Mr. Steve Koutsonicolas

**Topic:** Construction of the Detroit/Windsor Tunnel



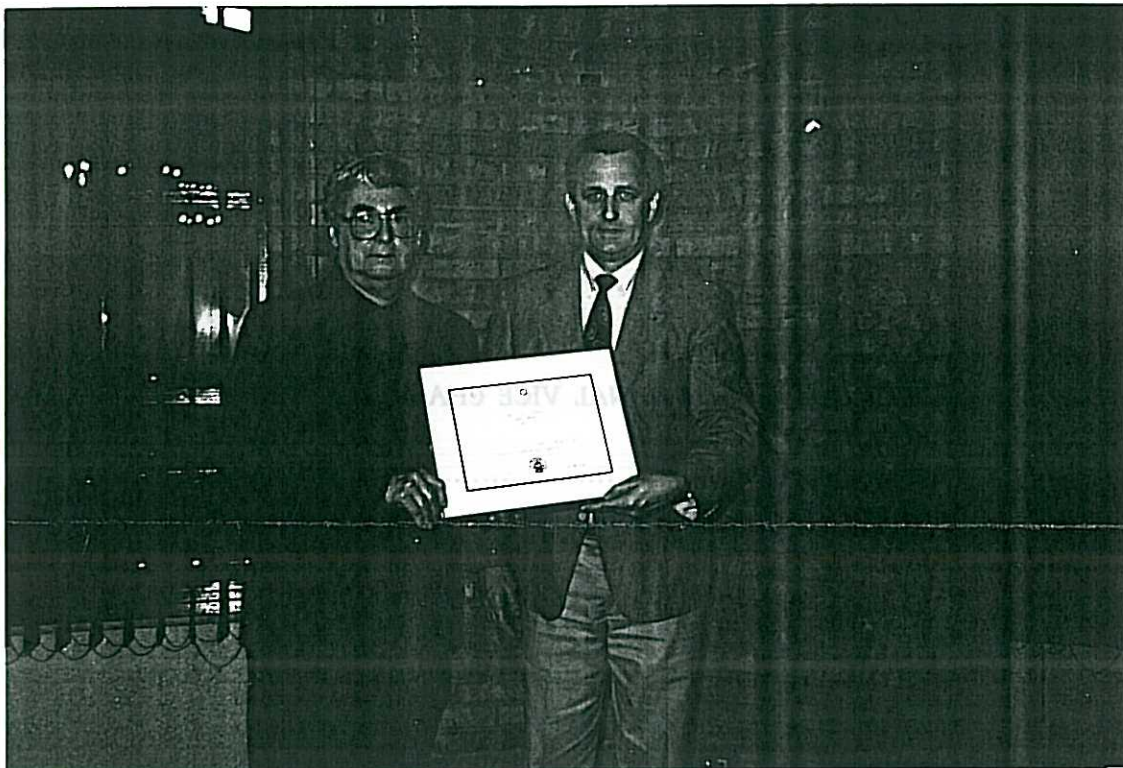
HISTORIAN'S MEMO

Dear Fellow ASHRAE'RS:

It is with great regret that the Historical Committee will not present a report at the last general meeting of 1993-94. Unfortunately we still have not received the old historical files started by Nel Dario in the charter year of our chapter. I am not certain of their location but trust that they will materialize soon as I am quite certain that they are at least 3 years in arrears and will require quite a bit of effort to update. It appears that due to the press of business our committee's centennial project will also not be ready for the May meeting; it is my sincere wish that we can give our chapter something of substance by the fall of 1994. Thanks to all who assisted me this year.



Chris Hales  
Historian



At our Chapter's November 16th Meeting Mr. Nel Dario was presented with an appreciation award for his ten year term as our Chapter Historian. Pictured above are Nel Dario and Presenter Frank Pelisek.





**DOMESTIC ENGINEER**

OWNERS: GORD & GREG McDONNELL  
 DRIVER: GORD McDONNELL      TRAINER: GORD McDONNELL



ASHRAE

RACE 6 DECEMBER 8, 1993; CLAIMING PACE, PURSE \$3,800

TIMES:            :27.4            :58.2            1:27.1            1:57.1







