

AMERICAN SOCIETY OF HEATING, REFRIGERATION AND AIR CONDITIONING ENGINEERS INC.

London, Canada Chapter No.116 (www.execulink.com/~tpollard/ashrae.html)

Volume 1, Issue 3

NOVEMBER 2001



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Speaker: W.Z.BLACK

**Regents' Professor George W. Woodruff School of Mechanical
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Georgia**



W. Z. Black is a Regents' Professor and Georgia Power Distinguished Professor in the George W. Woodruff School of Mechanical Engineering at Georgia Institute of Technology. He received his BS and MS in Mechanical Engineering from the University of Illinois and his Ph.D. in ME from Purdue University. He has been a member of the faculty at Georgia Tech in Mechanical Engineering since 1967. He is a former associate director of the ME graduate program and he has twice received the Georgia Tech Outstanding Teacher Award. He is the author of over 60 refereed technical publications in the Transactions of ASME and IEEE and he is the co-author of three undergraduate engineering textbooks. ASEE awarded Dr. Black the Ralph Coats Roe Metal recognizing outstanding professional contributions in Mechanical Engineering. He also received the Distinguished Alumnus Award from the University of Illinois in 1989 and he is a Fellow of ASME and IEEE and a member of the Atlanta Chapter of ASHRAE. Dr. Black has conducted research in the area of heat transfer from electronic and electrical equipment for the past 30 years. Sponsors include private industry, governmental agencies and major research laboratories. He has also been a consultant to numerous industrial companies, law firms, and government agencies.

Topic: Presentation on HVAC Design and its Relationship to Fire Litigation

In today's atmosphere in which most serious accidents result in some form of litigation, engineers must design and build structures with the utmost care and concern for the safety of all occupants. In the event of a fire, occupant safety involves consideration of not only obvious systems such as the sprinkler and fire alarm systems, but also consideration of HVAC design, HVAC operation and selection of the building contents. Since most lives lost in a fire result from smoke inhalation rather than burns, the designer and builder of a structure must be aware of how their participation in the building will affect the safety of the occupants who utilize their building.

This talk will focus on the influence of building design and construction on the development and movement of smoke when a fire occurs in a building. Examples will be taken from several major fires including the MGM Grand Hotel fire in Las Vegas, the DuPont Plaza Hotel fire in San Juan and the Cathedral Hill Hotel fire in San Francisco. The litigation that evolved from these fires will be used to suggest ways that engineers can minimize the impact of fire litigation if it should occur.

Location: The Lamplighter Inn 591 Wellington Rd., S.

BUFFET MENU

Green, Caesar, Potato & Pasta Primavera Salad,
Chicken Breast w/ Mushroom Sauce and Atlantic Salmon Fillet w/ A Chardonney Sauce, &
Sweet Table
Meal Cost \$32.00, Or Meal Plan \$150.00
Students \$15.00

Monday NOVEMBER 26/2001

Social—5:15 pm

Dinner—6:00

Program—7:15 (Approx.)

President's Message

Those who attended the October meeting were rewarded with an excellent presentation from Roland Charneux. Roland did both the Tech Session (Fume Hood Design) and his ASHRAE Technology Award Winning presentation of the President Kennedy Building located at the Universite du Quebec a Montreal. Rolland showed us some of the innovative techniques used by his team in designing a duct system that allowed a large reduction in outdoor air requirements as well as flexibility for current and future lab requirements.

The only thing that could possibly top the presentation by Mr. Charneux could be our guest speaker this month. The executive of the London Chapter are very excited and honored to have Dr. William Black who is an ASHRAE "Distinguished Speaker" visit us from Atlanta Georgia this month. As you will see from the introduction, Dr Black will be presenting a topic most of us are aware of, but hope we never have to be involved with. Speaking with members from other chapters who had Dr Black as a guest speaker, this is a meeting not to be missed.

We will also be inviting some students from the local University and college to this months meeting. With the generous support of some of the local Businesses we will be offering the admission free of charge to the students. Brenda Stonehouse is looking for a few more sponsors to invest the \$35.00 fee for students to attend. I am sure she would love to hear from you.

I hope to see all of you on the 26th, to show your support of the London Chapter of ASHRAE. (Your attendance could go a long way in helping you secure a spot in our the Golf Tournament, if you bring a couple of guests we will work even harder on a prime tee off position for you.

Daryl Somers

Membership

Chapter Dues Summary - Region II

Montreal \$70.00
 Hamilton \$65.00
 Halifax \$55.00
 PEI \$50.00
 Windsor \$50.00
 Quebec \$50.00
 Ottawa \$45.00
 London \$40.00

Special Thanks

Special THANK YOU is extended to Scott Edmunds, P.Eng - Union Gas for providing the computer projector at the chapter meetings



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Research

ASHRAE RESEARCH PROMOTION NIGHT

The November Chapter Meeting will be this year's first Research Promotion Night. At the meeting we will be recognizing all of the companies and individuals that made contributions to ASHRAE Research last year. The meeting will also kick off this year's drive.

The Research Promotion committee for 2001-2002 consists of Norm Clarke, Scott Turner, Scott Edmunds and Dennis Dawe. Over the next 6 months you will all receive a phone call or letter from one of the committee members.

Please donate to support ASHRAE Research and help us reach our goal of \$ 8,000. Presently we have collected about \$ 550.

Dennis Dawe, Research Promotion Chairperson

Before Dinner Technical Talk

Fireproofing and Firestopping Ductwork and other Mechanical Penetrations

Larry Whitty—Project Manager for 3M Canada Fire Protection Products

&

Mike McClure—President of ThermoFire Systems Inc.

Two recognized Canadian experts on Fireproofing Ductwork and Through Penetration Firestopping.

Saving space, time, and money are the key issues to be addressed in a fire stop presentation. Firestopping and Fire Resistant Duct Protection are important issues that need to be addressed in building construction, but solutions are often difficult and time consuming to find. Our guest speakers will help us to find some methods to save valuable building space and will offer simple solutions to reduce through penetration firestop confusion.



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ASHRAE LONDON CHAPTER
2001 - 2002 Program



Monday September 24/2001

Water Filtration
Alain Blais, P.Eng - Sonitec

Monday October 29/2001 (TEGA Award Winner)

Innovative Laboratory Design and General Design Considerations
Roland Charneau - Pageau Morel at Assoies Inc, Montreal

Tuesday October 20/2001 12:00pm to 4:15pm

ANSI/ASHRAE/IESNA Standard 90.1-1999 Satellite Conference
Norm Clark, P.Eng - Trane Canada 8 Belleisle Court, London

Monday November 26/2001 **** Distinguished Lecturer ****

HVAC Design and Its Relationship to Fire Litigation
William Black PH.D., P.E., Georgia Institute of Technology

December 2001 - no meeting

January 12-16/2002 ASHRAE Winter Meeting (Atlantic City, N.J.)

January 14-16/2002 AHR Expo (Atlantic City, N.J.)

Monday January 28/2002

New Technical Standards and Safety Act (June 27, 2001)
P. Conners, Technical Standards and Safety Authority (TSSA)

Monday February 25/2002

National Hydronics Code
John Goshulak, P.Eng - Viessmann Mfg

Monday March 25/2002

Water and Air Balancing - Problems in the Field

March 21-23/2002 CMX 2002 (Toronto Ont.)

Monday April 29/2002

Natural Gas Pricing and Energy Saving Programs
Scott Edmunds, P.Eng - Union Gas

Monday May 27/2002

Plant Tour - GM Military Manufacturing Facility, London

June 2002 - golf tournament

June 22-26/2002 ASHRAE Annual Meeting (Honolulu, Hawaii)