

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

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

OCTOBER 2001

Volume 1, Issue 2



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Speaker: Roland Charneux, M. Eng.

Roland graduated in mechanical engineering at Polytechnic school of Montreal (1976) and obtain a master degree at Concordia University (1990). Past President of Montreal ASHRAE Chapter, he is corresponding member of TC-9-10 "Laboratory Ventilation" and member of TC-9-11 "Clean Spaces". He has more than 25 years of experience in designing safe energy efficient electromechanical systems for laboratories, research centers a pharmaceutical industries. In the last few years he was responsible for the design of new facilities for Bristol Myers Squibb, Boehringer Ingelheim, L.C. Simard Research Center. He is actually in charge of the team designing the new Science Complex of Concordia University.

Topic: Innovative Laboratory Design & General Design Considerations

New UQAM Science Building Innovation, Safety, Efficiency and Flexibility

Université du Québec a Montréal (UQAM) new President-Kennedy Pavilion is 400,000 ft² with eight above ground floors in addition to a street level floor, a subway level floor and a basement floor. The main activities in the building include teaching and research in the fields of mathematics, computer science, physics and earth sciences. About 100,000 ft² are laboratory spaces and 100,000 ft² are dry laboratories. The building is expected to serve over 4,000 students and staff. Energy efficiency, low capital costs, laboratory safety, and design flexibility were primary concerns the mechanical concept had to address while as usual providing comfort and high indoor air quality. The use of an innovative dual duct air system serving both lab and non-lab areas allows the outside air requirements to be kept minimum. Fume hood and general lab exhaust is provided by a manifolded system that takes full advantage of diversity to reduce energy and capital costs. A clever layout of laboratory modules in relation to the mechanical services shafts, which are fully accessible at all times, results in minimum floor to floor heights and provides maximum flexibility for future retrofits. The innovative design won a ASHRAE TEGA Award at the 2001 winter meeting.

Pre Dinner Technical Talk:

LABORATORY VENTILATION, FUME HOODS AND LAB SAFETY.

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

BUFFET MENU

Green, Caesar, Potato & Pasta Primavera Salad,
Roast Top Sirloin of Beef w/ Red Wine Sauce and
Chicken Stirfry, & Sweet Table

Meal Cost \$32.00. Or Meal Plan \$150.00

Students \$15.00

Monday OCTOBER-29-2001

Social—5:15 pm

Dinner—6:00

Program—7:15 (Approx.)

President's Message

Our September meeting was well attended despite it being our first meeting of the year. It was nice to see some old friends after the summer vacation, and a few new faces in the crowd, which is always encouraging. Our meeting this month I am sure is going to be excellent. Rolland Charneux is visiting us from Montreal and will give us a presentation of his ASHRAE Technology Award Winning Project. (see the outline in the March 2001 Journal pg 61.)

Rolland is also the Membership Regional Vice Chairperson for Region II, and will be addressing the membership with his latest news and information from the society and regional levels.

Please also mark your colander for our Nov. 26th meeting when we will have Dr. William Black as our guest speaker. Dr Black is an ASHRAE "Distinguished Speaker" and will give us his talk on HVAC Design and its Relationship to Fire Litigation. I am sure this will be a very interesting topic for all of the sectors of our industry. This would be a great opportunity to invite a friend or associate to a meeting.

Finally the chapter has a Free one day Pass to the Winter meeting in Atlantic city Jan 12 - 16 2002. Society is providing this pass for anyone who has not attended a society meeting in the past. If you are interested please see me.

I look forward to seeing you on Mon Oct 29th.

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

Future Meeting

Special Meeting - November 26/2001

Distinguished Lecturer - Mr. William Black, Ph.D., P.E. will be attending the local chapter meeting to discuss HVAC Design and its Relationship to Fire Litigation. Mr. Black will speak on his experiences with HVAC system design and construction on the development and movement of smoke when a fire occurs in a building. Mr. Black has published a number of books, papers, articles and has been an expert witness on several court cases.

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TEGA: *Satellite Broadcast*

The U.S. Department of Energy's Building Standards and Guidelines Program (BSGP), in partnership with the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE), and the Illuminating Engineering Society of North America (IESNA) will present more details of Standard 90.1-1999 Energy Standard for Buildings Except Low-Rise Residential Buildings. Last year's overview broadcast was very successful and had over 2000 registered viewers! The number one comment received on the broadcast evaluation forms was a request for more details and separate broadcasts for each topic area...you asked for it... you got it! Schedule Three, 75-minute broadcasts will air consecutively (separated by 15-minute intermissions) and will cover requirements of Standard 90.1-1999 for the Building Envelope, Mechanical, and Lighting energy systems.

(ALL TIMES EASTERN)

11:30 - 12:00 p.m. Test and sites dial in to satellite
 12:00 - 1:15 p.m. Building Envelope
 1:15 - 1:30 p.m. Intermission
 1:30 - 2:45 p.m. Mechanical
 2:45 - 3:00 p.m. Intermission
 3:00 - 4:15 p.m. Lighting

Each segment will include an opportunity for live questions and answers via phone and fax. Join us for any or all of the broadcasts! Presentations Copies of the broadcast presentations will be available on the website by October 15.


http://www.eren.doe.gov/buildings/codes_standards/buildings/broadcast_01.html

If you are willing to host a Downlink Site Please complete the registration form on the website. Please be aware the broadcast will only be available in Ku-Analog, so please confirm your site is able to receive Ku-Analog before registering.

Webcast The broadcast may be available via webcast, so be sure to keep checking the website for more information.

Please contact Norm Clarke (Trane London Office 453-3010) if you plan on attending. For those that can not attend, the broadcast will be video taped, or you can register on the internet for the quicktime web broadcast.





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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 30/2001 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)