

# ASHRAE Ottawa Valley Chapter

## Chapter Meeting #4, January 16<sup>th</sup>, 2007 (5:30 p.m.)



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Meeting Date:	Tuesday, January 16 <sup>th</sup> , 2007
Location:	La Contessa Banquet Hall, 156 Cleopatra Drive, Nepean, ON
Presiding Officer:	President: Glenn MacLean, M. Eng.
Attendance:	Total: 99      Guests: 10      Students: 27
Theme Night:	Student Activities
Table Top:	PermaLynx fitting system for copper pipe – Victaulic Ventex Louvers and Dampers – Walmar Ventilation
Program:	Geothermal system design
Speaker(s):	Michel Bernier, Ph.D., P.E. Professor, Ecole Polytechnique de Montréal
Prepared by:	Francois Belair, P.Eng. – June 18, 2007

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### ***Career Fair*** (2:00 – 5:30)

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- A half day career fair was held for students of all local post secondary institutions including Algonquin College, University of Ottawa and Carleton University. Displayed were booths representing all many of the major employers in the local HVAC industry. Among them, consulting engineers, manufacturer's representatives and mechanical contractors. The fair offered local students the opportunity to educate themselves about employment avenues that will be available to them upon graduation.

### ***Social*** (5:30 – 6:30)

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### ***Business Session*** (6:30 – 7:00)

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- GM opened the meeting and welcomed members, guests and students
- GM introduced the Board of Governors
- IB introduced the guests and students
- GM announces that 2 pairs of tickets are being raffled for the upcoming Barenaked Ladies concert in Ottawa. These tickets were donated were raffled to raise money for the student activities committee.
- GM called on Jay Doshi to provide a research update. JD made an appeal to the membership to support research as currently the chapter is well short of its annual goal of \$16,000.
- GM announced the upcoming bonspiel date of March 23.

### ***Dinner*** (7:00 – 7:35)

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### ***Business Session-Continued*** (7:35 – 8:00)

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- GM recognizes the efforts and tremendous success of this afternoon's career fair. GM asks Chris Fudge to take the podium and recognize the organizing committee.
- CF recognizes Stephen Lynch, Patrick St.Onge and Imtee Baksh for all their efforts in organizing the days fair. This well organized event had over say a word about the program and its value to the local chapter before presenting the awards for last years submittals. Those recognized are Marc Chiasson and Megan Wallace from Genivar. Bob encourages all members to submit applicable

- projects for the upcoming year.
- GM invites the table top presenters to discuss their displays.
  - GM invites Mr. Nicolas Lemire, RVS student activities to the podium. Nicolas briefly discusses initiatives taken by ASHRAE to involve students and young professionals under the age of 32. These initiatives include dues rebates for society membership and enrolment in the Young Engineers in ASHRAE (YEA) program.
  - Nicolas and Glen draw winning ticket numbers for the raffle. The tickets were subsequently donated to those students in attendance by Christine Kemp and Joel Primeau.

***Evening Program*** (7:50 - 8:45)

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Program: Geothermal system design  
Speaker: Michel Bernier

The evening program was Ground Coupled Heat Pump design by Mr. Michel Bernier Ph.D. For the students in attendance Michel began the presentation with a brief overview of the refrigeration cycle, heat pump operation, de-superheaters and the definition of Co-efficient of performance (COP). Michel's presentation then quickly escalated to specifics of borefield design, borehole techniques and annual ground temperatures for the local region and for the whole of Canada.

Mr. Bernier left no question that he is a pioneer and premier researcher in his respective field. His presentation was extremely detailed and covered every aspect of Ground Source Heat Pump systems and their design.

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