

ASHRAE Ottawa Valley Chapter

Chapter Meeting # 5 February Approved



Meeting Date:	Tuesday February 19, 2002
Location:	Capone's Restaurant, 1701 Woodroffe Avenue, Nepean
Presiding Officer:	President Frank Bann
Attendance:	Total: 78 Guests: 20 Students: 0
Theme Night:	Membership Promotion
Technical Session:	New Technology for IAQ Evaluation/TC 2.4 - ASHRAE's Particle People
Table Top:	Wesmech Technical Sales Inc./ Total HVAC Inc./ VCI Environment Division
Program:	Occupancy Impacts on Indoor Air Quality
Prepared by:	Lan Chi Nguyen Thi – February 25, 2002

Technical Session (5:00 – 5:45)

- Don MacDonald presented some issues regarding IAQ: standards & recommended guidelines, IAQ evaluation, sensing technology, the role of the WEB and artificial intelligence.
- Gemma Kerr talked about the role of ASHRAE Technical Committee 2.4, which is the committee that oversees Standard 52.1 which is used to rate the arrestance and dust spot efficiencies of HVAC filters and is responsible for the new standard 52.2 which rates filters in terms of removal of different sizes of particles.

Social (5:30 – 6:30)

Business Session (6:30 – 6:55)

- President Frank Bann introduced the OVC 2001/2002 Executive, the Board of Governors and special guests speaker Douglas S. Walkinshaw, RVC Membership Chair, Roland Charneux.
- Cathy Godin introduced the guests.
- Table top exhibitors were acknowledged.
- Bill DeGagne gave an update on CRC 2002.

Dinner (6:55-7:45)

Business Session-Continued (7:50-8:20)

- Rob Lefebvre invited guests to join ASHRAE. He also invited companies to participate in the Career Fair (March 12 – Algonquin College) and talked about membership advancement.
- RVC Membership, Roland Charneux reviewed the advantages of ASHRAE membership.
- Frank Vaculik went quickly over the application process for Technology Awards.
- ASHRAE Life member grade is awarded to Doug Schneider.
- Don McMillan reported on ASHRAE Winter meeting in Atlantic City.
- Marc Desjardins from the Canadian Associated Air Balancing Council talked about the association and their upcoming yearly meeting in Ottawa.
- David Eastwood as chair of Nominating Committee introduced the Nominating Committee and requested nominations from the floor. All Chapter members are invited to contact the Nominating Committee with their recommendations for new year executive/BOG.

- Chris Healey reminded members about the Curling Bonspiel on March 22. Christine Kemp at Walmar is also a contact for booking.

Evening Program (8:30-9:40)

- Topic: Occupancy Impacts on Indoor Air Quality – Douglas S. Walkinshaw
- Mike Swayne introduced the speaker.
- Douglas S. Walkinshaw’s presentation looks at the indoor air quality impacts of humans in three environments: offices, classrooms and aircraft passenger cabins, with occupancy densities ranging from 7 persons per 10,000 cu.ft (typical office) to 25 persons per 10,000 cu.ft (typical classroom) to 230 persons per 10,000 cu.ft (typical commercial aircraft passenger cabin).

Exposures to occupant bioeffluents are shown to increase with occupancy density, independent of ventilation rate. Bioeffluent emission rates appear to be higher in passenger aircraft cabins than in a grade school classrooms. Children in a grade three school classroom acted as a sink for the primary building air contaminant, p(1,4) dichlorobenzene, reducing its concentration by some 75% over a one hour period. An investigation in schools supports the use of 1 micron particle counts to trace human bioeffluent aerosol exposure, supplementing carbon dioxide which has been the primary bioeffluent tracer to date.

- Rob Lefebvre thanked the speaker and presented a gift.
 - Frank Bann reminded members about the March meeting. Topic: System Efficiency of Air and Water Systems.
 - Frank Bann mentioned that the ASHRAE biographical records are available on-line for updating.
 - Meeting was adjourned at 9:40. Motion moved by Dalton McIntyre. Seconded by Eric VanBenschoten. All in favor.
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Distribution:
Board of Governors
All RVCs
DRC
Gabriel Laszlo

Please review the minutes. Any errors or omissions shall be communicated in writing to Lan Chi Nguyen Thi.