

ASHRAE Ottawa Valley Chapter

Chapter Meeting #2 – Oct. 18th, 2011 (17:30 pm)



Meeting Date:	Oct. 18 th , 2011
Location:	Travelodge Ottawa, 1376 Carling Avenue
Attendance:	Total: 61
Theme:	YEA
Tech Session:	Introduction to Psychrometry by Joel Primeau
Table Top:	Walmar – Penn Barry Fans
Program:	Fan Efficiency Grading
Speaker:	Brian Morgan, Penn Barry - Member
Prepared by:	Secretary Steve Moons

Tech Session (17:00-17:45)

Past President Joel Primeau presented a session on Introduction to Psychrometry which was attended by approximately 20 people. Topic summary: Introduction to air conditions, psychrometric chart and how to use and interpret it.

Social (17:30 – 18:36)

Business Session (18:40 –19:00)

- President Stephen Lynch welcomed members, discussed monthly theme of YEA and introduced the Board of Governors and the Executive.
- Regional Vice-Chair Cathy Godin announced four new chapter members: Miss Tova Govia, Mr. Ahmed Al-Issa, Mr. Shane Kennedy, Mr. Cameron Haines
- Secretary Steve Moons introduced the guests for the evening.
- Secretary Steve Moons discussed upcoming ASHRAE Bowling Social
- Governor Paul Baker eulogizes Stuart Woermke, who passed away recently and was a long-time member and volunteer for the OVC.
- Phil Mahannah with Penn Barry discusses their table-top.
- President Stephen Lynch discusses OCRI Canadian CleanTech Summit, and encourages members to attend.
- President Stephen Lynch discussed the upcoming ASHRAE winter meeting in Chicago, and encourages members to attend.
- President Stephen Lynch thanks members for their support of students, and encourages them to continue to help.
- Nicholas Demoulin from Carleton University spoke about Carleton's Green Energy Conference to be held on Nov. 5th.
- President Stephen Lynch discussed the technical session, and thanks Regional Vice Chair Joel Primeau for presenting.
- President Elect Don Weekes discussed the technical tour of Algonquin College's new technical trades building.
- President Stephen Lynch mentions that Past President Christine Kemp will be raffling three sets of tickets to upcoming Ottawa Senators games.
- President Stephen Lynch requests volunteers for a new chapter Historian.

Dinner (18:50 – 19:35)

- Past-President Christine Kemp oversaw the raffle ticket sales for three sets of Ottawa Senators tickets, courtesy of Longhill Energy and Tamco.
- President Stephen Lynch introduces the evening's speaker.

Evening Program (19:39 – 20:10)

- Brian Morgan presents on Reducing Fan Energy Costs
- Notes that 30% of electrical consumption nationally is for HVAC, 40% of HVAC electrical consumption is fans, 46% for motor driven systems.
- Very few (9.1%) of existing motors meet 1992 standards.
- Generally, larger fans are more efficient than smaller fans, but carry a initial cost premium.
- Different fan types have different inherent fan efficiencies. Air foil fans are the best.
- Brian introduces the Fan Efficiency Grade (FEG) system
- An FEG of 80 does not represent a fan efficiency of 80%.
- It is recommended that fan efficiency be +/- 10% of peak efficiency for the fan airflow operating range.
- ASHRAE 90.1-2010 recommends FEG of 67.
- There are five parts to fan efficiencies – the fan, transmission, motor, drive and control.
- Optimizing fan efficiencies can save 50% energy use.
- Upgrading old motors can save 7-30% energy.
- Direct drive fans are recommended wherever possible, and can save up to 15% energy.
- In summary, proper system design and fan selection will save energy.

- President Stephen Lynch thanked Brian for his presentation and gave him a small gift.
- Meeting adjourned 20:13

Distribution:

All Board of Governors, Webmaster