

# ASHRAE Ottawa Valley Chapter

## Chapter Meeting #7 – April 19<sup>th</sup>, 2011 (17:30 pm)



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Meeting Date:	April 19th, 2011
Location:	Travelodge Ottawa, 1376 Carling Avenue
Attendance:	Total: 66      Members: 47      Guests: 12      Students: 7
Theme:	Research
Tech Session:	<b>Chilled Water Systems</b> by Joel Primeau
Table Top:	Total HVAC
Program:	<b>Green Codes and Standard 189.1</b>
Speaker:	Kent Peterson, PE, LEED AP, ASHRAE Presidential Fellow

Prepared by: Secretary Roderic Potter

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### ***Tech Session*** (16:30-17:45)

Past President Joel Primeau presented a session on Chilled Water Systems which was attended by approximately 20 people. Topic summary: Compressor types (positive displacement or dynamic compression), compression cycle and absorption, air-cooled versus water-cooled, ARI certification and why we shouldn't simply specify ARI conditions for a chiller's performance specifications, CSA B52 (or ASHRAE standard 15), NPLV versus IPLV.

### ***Social*** (17:45 – 18:45)

### ***Business Session*** (18:50 –19:05)

- President Christine Kemp introduced the Board of Governors and the Executive.
- Secretary Rod Potter introduced the guests for the evening.
- Membership Chair Adam Moons announced three new chapter members: Greg Terry, Heather Knudsen, and Dan Angers.
- President Christine Kemp reminded the membership that our Chapter is always looking for people to sponsor Student Meals.
- Nominations Committee Chair Bob Kilpatrick announced the nominations for the next chapter year as follows:  
President: Stephen Lynch; President-Elect: Don Weekes; Treasurer: Rod Potter; Secretary: Steve Moons; Governors: Paul Baker, Georges Maamari, Peter Paciorek, Abbey Saunders, and Chris Fudge.
- Andrew Douma spoke about the upcoming Golf Tournament which will be held at Loch March on June 9<sup>th</sup> 2011. Sponsorships are available.
- David Mills spoke about Joel Primeau's tech session. The subject this month was Chilled Water Systems.

### ***Dinner*** (19:05 – 19:27 salad was served before the business session)

- Past-President Cathy Godin oversaw the raffle ticket sales for the Ticket Giveaway Draw (courtesy Walmart). This month the tickets were for the upcoming Bon Jovi concert!

### ***Business Session cont.*** (19:27 –19:35)

- TEGA Chair Georges Maamari announced achievements at the Chapter Level:  
1<sup>st</sup> Place Residential – Andrew Macdonald – NORR – for the redevelopment of Beaver

Barracks on 424 Metcalfe.

1<sup>st</sup> Place Existing Commercial – Kashyap Desai – Stantec – Yardmen Arena Chiller Plant Upgrade in Belleville.

- Governor Steve Moons spoke about the Total HVAC tabletop display.
- The Bon Jovi Ticket Draw was overseen by President Christine Kemp – it was won by David Mills and this draw earned \$260 for ASHRAE Research.

***Evening Program*** (19:35 – 20:45)

- Kent Peterson explained that the Standard 189.1 movement started about 5 years ago and many groups were involved in its conception, including LEED, Green Globes, engineers, and architects. The Green Building Council was started in 2006 and at its peak there were 41 people on the project committee. There were 4 public reviews resulting in about 2000 feedback comments.
- If followed, the Standard will reduce the environmental impact of building use.
- Codes in themselves do not make buildings better – only people can do that.
- Pre-existing standards and guidelines such as ASHRAE 90.1 were used as starting points; pieces of these were used as building blocks.
- There are certain Mandatory Provisions such as efficient outdoor lighting and water use reduction.
- A 50% reduction in energy use is a goal.
- Existing commercial building energy use – about 67% is regulated such as for lighting, cooling, heating, ventilation and water heating; about 29% is unregulated such as for electronics, computers, and plug loads. These unregulated loads will be targeted.
- A goal is to meet the requirement of standard 90.1 first.
- Standard 189.1 emphasizes Energy Consumption Management, Building Envelope requirements; Mechanical system requirements slightly more stringent than 90.1; lighting and Day-lighting where ability to reduce level and glare is a must; Indoor Air Quality meets standard 62.1 or higher – contaminant levels must be controlled, not just diluted; ventilation rate must be monitored coupled with MERV filtration.
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- President Christine Kemp thanked Kent for his presentation and gave him a small gift.
- Meeting adjourned 20:45

Distribution:

**All Board of Governors, Webmaster**