

ASHRAE Ottawa Valley Chapter

Chapter Meeting #4 – January 15th, 2013 (17:30)



Meeting Date:	January 15 th , 2013
Location:	Travelodge Ottawa Hotel and Conference Centre
Attendance:	Total: 61 - Members: 45 Guests:7 Students: 9
Theme:	Research Promotion
Tour:	None
Tech Session:	None
Table Top:	Distech- Viessman Boilers
Program:	Heating Boilers and Boiler System Design
Speaker:	Harald Prell

Prepared by: Georges Maamari

Social: (17:30 – 18:24)

Business Session (18:24 –18:45)

- President Donald Weekes introduced the Board of Governors and the Executive.
- Secretary Georges Maamari introduced the guests for the evening.
- Stephen Lynch spoke about Research Promotion and how that relates back to the development of ASHRAE standards and guidelines. Stephen also presented a PowerPoint presentation, discussing the guiding principles of the research promotion campaign and the various industries served.
- Jarett Pichler and Keegan Hardy from Carleton University introduced the new LinkedIn group for ASHRAE students. The various purposes include interconnecting various students on a professional level.
- Student Erqin Zeng discussed the ASHRAE funded research project in her last study year. She designed a “mini course” for high school a student, that combines basic engineering concepts with hands-on experiments.
- Donald Weekes also introduced the table top display of the evening; Viessman Boilers presented by Tom O’Grady from Distech.

Dinner (18:45 – 19:30)

Evening Program (19:30– 20:44)

- Speaker Harald Prell’s topic was Heating Boilers – Changes in construction forces proper system design. Mr. Prell explained how various environmental energy supplies and climate protection standards are reshaping heating system designs to reduce energy consumptions. The driving forces include: system efficiency, operating cost, fuel conservation, and emissions. Mr. Prell also discussed how the development of burners from a diffusion flame to premix impacted the development of heat exchangers (from large mass to low mass). He also discussed how the evolution of boiler burners was greatly driven by the need to reduce NOx and CO emissions. Mr Prell also discussed the various AFUE parameters that need to be incorporated into boilers in order to obtain certifications.
- After the presentation, Donald Weekes thanked Mr. Prell for his presentation.
- Meeting adjourned 20:44