

ASHRAE Ottawa Valley Chapter

Chapter Meeting #5, February 20th, 2007 (5:30 p.m.)



Meeting Date: Tuesday, February 20th, 2007
Location: La Contessa Banquet Hall, 156 Cleopatra Dr., Nepean, ON
Presiding Officer: President: Glenn MacLean, M. Eng.
Attendance: Total: 50 Guests: 2 Students: 0
Theme Night: Membership
Table Top: Gridco Controls and Selkirk Chimney – Total HVAC
Program: Centrifugal Fire Pumps – Players and Pitfalls
Speaker(s): Paul Latreille, CET
 Zenix Engineering Ltd.
Prepared by: Francois Belair, P.Eng. – March 08, 2007

Social (5:30 – 6:30)

Business Session (6:30 – 6:45)

- RL opened the meeting and welcomed members, guests and students
- RL introduced the Board of Governors
- IB introduced the guests and students
- RL invites the table top presenters to summarize their displays and members were encouraged to visit the various displays during the break
- Chris Healey provides details to the membership regarding the chapters upcoming bonspiel March 23rd, 2007

Dinner (6:45 – 7:40)

Business Session-Continued (7:40 – 7:50)

- GM invites RL to announce new member and solicit memberships. RL explained the benefits of membership, it's value to the OVC and role in continued growth.
 - Frank Vaculik discussed the chapters TEGA award for innovative technology/energy efficiency. Awards to be handed out at April meeting with projects to be submitted by March 31st.
 - Niraj Chadra compelled OVC members to make a contribution to the communiqué regarding sustainability and climate change.
 - GM announced a change in date for the May meeting to accommodate Mr. Terry Townsends, ASHRAE president. The May meeting will now be held May 29th at the usual location.
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Evening Program (8:00 - 8:45)

Program: Centrifugal Fire Pumps – The Players and Pitfalls
Speaker: Paul Latreille, CET

Glen MacLean introduced the evening speaker.

Fire pumps and the codes that govern their requirements are often a mystery to those who practice HVAC consulting. The agenda for the presentation was:

- ❖ Code requirements
- ❖ Players involved on pump projects
- ❖ Glossary of fire pump terms
- ❖ Issues with pump installations
- ❖ Variable speed drives
- ❖ Tips and the top 10 issues

The first item of the presentation was to determine the code requirements for fire pumps. Unfortunately in the fire protection world, multiple codes and standards identify system needs while often offering contradictory statements.

Once the OBC and NBC have been consulted, one must undertake the task of designing the fire protection system. Several factors must be taken into consideration for the design:

- ❖ Available water supply
- ❖ Head loss due to elevation
- ❖ Friction loss due to the piping
- ❖ Safety factor
- ❖ Impact on domestic water system

For the installation, several divisions are involved including general, mechanical, electrical, Ottawa hydro, fire department, fire alarm manufacturer, sprinkler contractor and fire pump manufacturer. In all over 30 players may be involved on a single installation.

Paul goes on to system and pump glossary before presenting a number of typical challenges encountered including situations with vertical inline pumps, horizontal pumps, mineral insulated cables and pumps that do not meet the performance curves prescribed by the manufacturers.

Finally system testing, commissioning and routine maintenance/inspections.

- GM thanked our guest speaker for his presentation and presented him with a gift.
- With no other business at hand, Glen adjourned the meeting at 9:20pm.

Distribution
Board of Governors
All RVCs

DRC