

ASHRAE Ottawa Valley Chapter

Chapter Meeting # 6 March Approved



Meeting Date: Tuesday March 19, 2002
Location: Capone's Restaurant, 1701 Woodroffe Avenue, Nepean
Presiding Officer: President Frank Bann
Attendance: Total: 70 Guests: 14 Students: 0
Theme Night: Program/TEGA
Technical Session: Low Flow, Low Temperature Chillers – A Case Study
Speaker: Tom Chiykowski, Trane Company
Table Top: Carrier – John Lowery
McQuay – Rod Lancefield
York – Chris Caron
Program: System Optimization Enabled by Water Chilling Technology – Mick Schwedler Applications Engineer Trane Company, Lacrosse WI.
Prepared by: Jason MacMurdo – March 26, 2002

Technical Session (4:30-5:30)

- Presentation of 2 low flow, low temperature chiller application case studies by Tom Chiykowski of Trane's Ottawa office. One of the case studies was a JDS Uniphase building designed by a local consultant. Session was attended by approximately 20 people and was well received.

Social (5:30 – 6:30)

Business Session (6:35 – 6:50)

- President Frank Bann introduced the OVC 2001/2002 Executive and the Board of Governors.
- Frank Bann introduced Mr. Mick Schwedler of the Trane Company, the evening's main speaker.
- Frank Bann introduced Mr. Jay Jayaraman, TEGA RVC for Region 2.
- Cathy Godin introduced the guests.

Dinner (6:50-7:50)

Business Session-Continued (7:35-8:00)

- Joel Primeau reported on the afternoon tech session on low flow, low temperature chillers.
- Manufacturer's representatives, from Carrier, McQuay and York, summarized the product offerings at their respective tabletops and encouraged the membership to visit them during the break.
- Jay Jayaraman term as TEGA RVC for Region 2 is complete. Jay thanked the OVC for its continued support of his activities over the years.
- Patric Renault reported on Student Activities Committee and the successful job fair at Algonquin College. The job fair was attended by 10 employers and over approximately 60 students.

- The Gold Circle Award was presented by Chris Frauley to Enbridge Consumer's Gas, care off Jay Jayaraman, for their \$10,000 contribution to ASHRAE Research.
- Mike Swayne reported that the OVC Research campaign was in full gear and intends to start the campaign earlier this year.
- Dalton McIntyre eulogized OVC member Bill Baldwin who recently passed away. Bill worked for many years with American Standard in Montreal and with JoAd Sales (Liebert) in Ottawa.
- David Eastwood, chair of the Nominating Committee introduced its members, Frank Bann, Ross McIntyre, Cynthia Gilles, and Bob Kilpatrick. The Nominating Committee presented the following nominations for the OVC 2002/2003 BOG and Chapter Executive: President – Lan Chi Nguyen Thi, President-Elect – Jason MacMurdo, Secretary – Cathy Godin, Treasurer – Jay Doshi, Governors – Tony Doyon, Ron Drummond, Don Johnson, Robert Lefebvre, Stewart Woermke. Nominations were closed by Glenn MacLean and Paul Baker.
- Allan Donally from ASPE reported on the upcoming ASPE sponsored seminar on Energy Efficiency through Optimized Design to take place April 25, 2002 at Capone's on Industrial Avenue.

Evening Program (8:20-8:45)

- Topic: System Optimization Enabled by Water Chilling Technology – Mick Schwedler Applications Engineer Trane Company, Lacrosse WI
- Tom Chiykowski introduced our speaker.

Mick discussed the evolution of chilled water plants and emerging chiller technologies. Several technological advancements to chiller compressor and evaporator design have lead to chiller efficiency improvements. In the mid 1970's, for example, the best chiller kW/ton was of the order of 0.9, today efficiencies around 0.4 kW/ton are common. The ASHRAE 90.1 Standard has driven much of chiller efficiency improvement as of late.

Mick discussed how today's chillers can support variable flow and wider temperatures differences as a result of improved chiller control than the standard 2.4 GPM/ton evaporator flow and 45/55 entering/leaving chilled water conditions.

In addition, our speaker discussed several chiller choices and system options enabling chiller plant and system operators to reduce the amount of power consumed during peak demand periods. Heat recovery chillers, absorption machines, gas engine driven chillers and thermal storage can be used very effectively to minimize energy consumption and for peak load shaving in larger central plants.

Business Session-Continued (8:45-8:50)

- Kevin Courneya thanked the speaker and presented a gift.

Meeting was adjourned at 8:50. Motion moved by Joel Primeau, seconded by Jason MacMurdo. All in favor.

Distribution:
Board of Governors
All RVCs
DRC
Gabriel Laszlo

Please review the minutes. Any errors or omissions shall be communicated in writing to Jason MacMurdo.