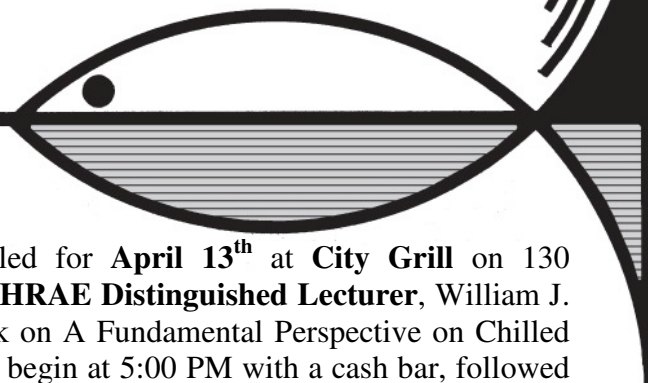




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This month's meeting is scheduled for **April 13th** at **City Grill** on 130 Westmorland Street, Moncton. **ASHRAE Distinguished Lecturer**, William J. Coad, of St. Louis, MO will speak on A Fundamental Perspective on Chilled Water Systems. A social hour will begin at 5:00 PM with a cash bar, followed by the presentation at 6:00 PM and dinner at 7:00 PM. The meeting is designated as a Refrigeration Night.

Executive Meeting Notice

A reminder to the Executive, Board of Governors, and the Committee Chairpersons that the executive meeting will start at 4:00 PM at City Grill.

Biography: William J. Coad

William J. Coad is President of Coad Engineering Enterprises, and is a registered professional engineer in 37 states. He is a past President of ASHRAE. In the field of Engineering Education, he served as a lecturer in Mechanical Engineering (undergraduate level) for 12 years at Washington University in St. Louis, and for 17 years as an Affiliate Professor teaching graduate courses in Mechanical Engineering and serving as a student thesis advisor in building environmental systems design. Bill Coad is an ASHRAE Fellow and a recipient of ASHRAE's Distinguished and Outstanding Service Awards, the Crosby Field Award for the best paper published by ASHRAE in 1985, the Louise & Bill Holladay Distinguished Fellow Award, the award for Best Journal Article of 1991, the Andrew T. Boggs Service Award and ASHRAE's highest award for technical achievement, the F. Paul Anderson Award. He has published 2 books and numerous articles and papers in United States and foreign journals on topics related to various aspects of Engineering Philosophy and Building Environmental Systems.

Abstract: A Fundamental Perspective on Chilled Water Systems

With chilled water systems, as with most other engineered energy systems, the parameters of performance and energy efficiency are totally synergistic. However, as these systems have grown in size they seemed to have grown in complexity, and resultant performance problems have led to numerous publications and papers on how to fix the problems. This talk examines the fundamental objective and physics relating to chilled water system design and suggests design guidelines for all practitioners from entry level engineers to experienced professionals.

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Mechanical Design Engineer

Toronto Winnipeg Vancouver Ottawa Moncton Saint John

Summary of March Meeting

Guy Perreault of the Quebec City Chapter attended in his capacity as an ASHRAE DRC (Director and Regional Chair). He spent a few minutes describing his dual roles as a member of the Society's Board of Directors and Chair of Region II. Guy also presented a certificate to Pierre Arsenault, this year's recipient of the ASHRAE Scholarship at l'Université de Moncton. Dr. Gilles Roy, Vice-Dean of Engineering at U de M was also a guest. There was an excellent attendance of 34 people, including six students.

The technical presentation was given by Mike Matheny and Mihai Mihai of Navien, who talked about Tankless Water Heaters. Advantages of tankless water heaters include:

- natural gas or propane avoids large electrical switchgear, and eliminates demand charges
- no heat loss from hot water storage tank
- very high efficiency (condensing combustion with low flue gas temperature)
- quick delivery of hot water due to constant recirculation with a low-energy circulating pump
- reduced water wastage when a user runs a quantity of cooled water down the drain while waiting for the hot water to arrive
- cooler water temperatures can be used because it is not necessary to use high tank temperatures to prevent Legionnaire's Disease



ASHRAE Region II DRC, Guy Perreault (Right) presenting the Université de Moncton ASHRAE Scholarship to Pierre Arsenault (Left).



Mike Matheny and Mihai Mihai from Navien receiving thanks from Chapter President John Willden.

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Introduction to Thermal Energy Storage Systems for A/C
Wednesday, April 7, 2010 – 1:00 p.m. to 4:00 p.m. EDT

Complying with Standard 90.1-2007: HVAC/Mechanical
Monday, April 12, 2010 – 1:00 p.m. to 4:00 p.m. EDT

Energy Management in New & Existing Buildings: A Sustainable Activity
Wednesday, April 14, 2010 – 1:00 p.m. to 4:00 p.m. EDT

Complying with Standard 90.1-2007: Envelope/Lighting
Monday, April 19, 2010 – 1:00 p.m. to 4:00 p.m. EDT

Using Standard 90.1 to Meet LEED Requirements
Monday, April 26, 2010 – 1:00 p.m. to 4:00 p.m. EDT

Introduction to Cleanroom Design
Wednesday, April 28, 2010 – 1:00 p.m. to 4:00 p.m. EDT

District Cooling & Heating Systems: Central Plants
Monday, May 3, 2010 – 1:00 p.m. to 4:00 p.m. EDT

Complying with Requirements of ASHRAE Standard 62.1-2007
Wednesday, May 5, 2010 – 1:00 p.m. to 4:00 p.m. EDT

Understanding & Designing Dedicated Outside Air Systems (DOAS)
Monday, May 10, 2010 – 1:00 p.m. to 4:00 p.m. EDT

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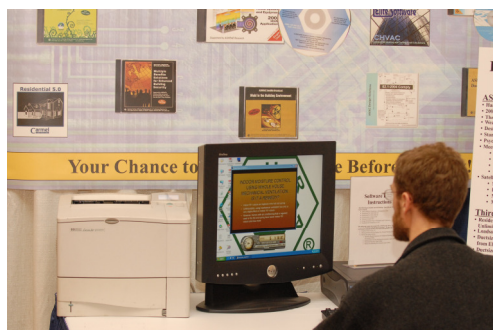
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NB/PEI ASHRAE Chapter Meeting Schedule 2009/2010

April 13, 2009
Refrigeration Night
Topic: A Fundamental Perspective on Chilled Water Systems

May 5 & 6, 2010
Research Promotion Night / Membership Night
MEET 2010 Show

June 8, 2010
History Night
Lobster Party



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