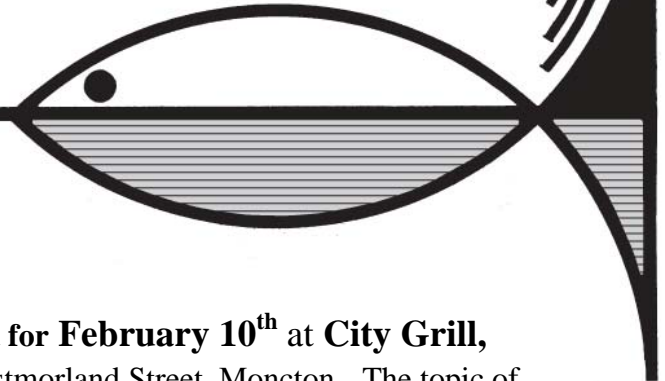




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NB PEI CHAPTER



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This month's meeting is scheduled for **February 10th** at **City Grill**, formerly Boomerangs, on 120 Westmorland Street, Moncton. The topic of this meeting will be **Copper Fin Boilers** delivered by **Frank J. Stempski, Vice President and General Manager** of **Aqua Tech Sales & Marketing**. A social hour will begin at 5:00 PM with a cash bar, followed by the technical presentation at 6:00 PM and Dinner at 7:00 PM.

February's meeting is **Research Promotion Night**. A reminder on dinner prices: new members, students and first time guests (potential members) receive their first meal free; thereafter, students pay \$10 and others pay \$20.

Executive Meeting Notice

A reminder to the Executive, Board of Governors, and the Committee Chairpersons that the executive meeting will start at 3:30 PM at City Grill.

Afternoon Out With The Cats

Thanks to everyone who registered to attend this event. Tickets will be available for pick-up at our meeting on February 10th. If you are unable to attend this meeting, please contact Dan Boudreau (dboudreau@enerplan.com) to make alternate arrangements to get your tickets. Payment will be due upon receipt. See you at the game.

New Standard 189 Committee to Hold First Meeting

ATLANTA – The newly expanded committee tasked with writing ASHRAE's first standard on high-performing green buildings has begun work again. The committee for proposed Standard 189.1, *Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings*, will hold its first meeting at ASHRAE's 2009 Winter Conference in Chicago on Tuesday, Jan. 27 at 8 a.m.



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Frédéric R. Desjardins,
 P.Eng., LEED® AP
 Mechanical Design Engineer

Toronto Winnipeg Vancouver Ottawa Moncton Saint John

February Presentation

Frank J. Stempski entered into the Plumbing and Heating Wholesale Industry in 1970 with Emco Supply, St. Catharines.

In 1975 he accepted a position with Niagara Plumbing Supply, an independent Wholesaler in Niagara Falls Ontario that specialized in hot water and steam heating systems. During his time there Frank was involved in all aspects of heating from the basic residential dwelling to large commercial installations involving combination steam and hot water installations.

In 1991 Frank joined Aqua Tech Sales & Marketing and currently holds the position of Vice President and General Manager. Aqua Tech Sales are the Canadian distributors, excluding Quebec, for the Lochinvar Corporation.

His prime interests include design, application, sales and commissioning of Hydronic Heating, Commercial Domestic Water, Low Pressure Steam, Water Distribution and Environmental Control systems.

He is a past Chairman of the Canadian Greenhouse Conference, past President of the ASHRAE Hamilton Chapter and has lectured and instructed at various hydronic heating seminars and schools.

ASHRAE 2008 BACnet Published

ATLANTA – Guidance to reduce a building’s energy consumption on demand is contained in ASHRAE’s newly published BACnet standard.

ANSI/ASHRAE Standard 135-2008, *BACnet® -- A Data Communication Protocol for Building Automation and Control Networks*, allows building equipment and systems manufactured by different companies to work together. It is the only open, consensus-developed standard in the building controls industry. The new standard contains seven addenda approved since the 2004 standard was published.

“The 2008 version of the standard incorporates many years of work by the BACnet committee,” said immediate past chair Bill Swan. “This includes material first published a couple of months ago. It replaces the 2004 version as the standard for BACnet technical and specification efforts.”



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Summary of last month's meeting

Mr. Robert Waters from Viessmann Manufacturing presented the topic of Solar Thermal Water Heating at the January meeting. He started by showing the use of energy worldwide from several different sources of energy along with predictions for the future. Germany leads the way in Solar Energy because of the government grants issued to customers for putting power back into the grid.

Mr. Waters then went on to talk about the different solar heating systems available. The most effective use of solar hot water heating in this particular climate is to use solar thermal to pre heat domestic hot water. This is because of the constant demand for hot water throughout the year as opposed to the seasonal demand for heating. Prime heating season is when we get the least energy from the sun, and summer months when we get the most energy from the sun heating is typically not required. Another good application for solar thermal is heating pools, either indoor or outdoor. There is also an application for solar assisted cooling systems, using the heat collected to drive thermal driven chillers or open desiccant cooling. The seasonal solar energy collected better matches the seasonal load for this application.

Site selection is also important. The best position is to have the collectors facing directly south, however 45 degrees east or west is acceptable. The angle inclination is another important consideration. The rule of thumb for this is the latitude of the location or around 45 degrees for this location.

The components needed to achieve solar thermal depend on the application, however most applications require the collectors, an expansion tank, a pumping station, and storage tank.

There are several types of solar thermal collectors each with their own advantages and disadvantages. Their efficiency is mostly dependant on the temperature difference between ambient air and the collector. Flat plate collectors are usually used for home heating and domestic hot water heating. For large temperature differences vacuum tube collectors are usually used. And for low temperature difference applications, such as swimming pools, unglazed plastic collectors are usually used.

There are several software packages available for sizing the equipment. A lot depends on how much heat is required per day, not peak load like most water heaters are sized. Systems are usually sized to handle 40% of the total heating load.

The government of Canada offers grants for commercial applications that are based on the total area of collectors and the collector performance factor.

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Chapter President Dan Boudreau gives speaker Rob Waters a gift after his Solar Presentation. Also present are Daron Thomas (left) and Terry Thibodeau (right) of Thomas Industrial Sales.

NB/PEI ASHRAE Chapter Meeting Schedule 2008/2009

February 10, 2009

Research Promotion Night

Topic: Copper Fin Boilers

March 10, 2009

Refrigeration Night

Topic: Refrigerants

April 7, 2009

Research Promotion Night

Topic: Distinguished Lecturer

April 22, 2009

ASHRAE WebCast

Topic: Indoor Air Quality

May 12, 2009

Refrigeration Night

Topic: Dehumidification

June 9, 2009

Membership Night

Topic: Corridor Resources



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