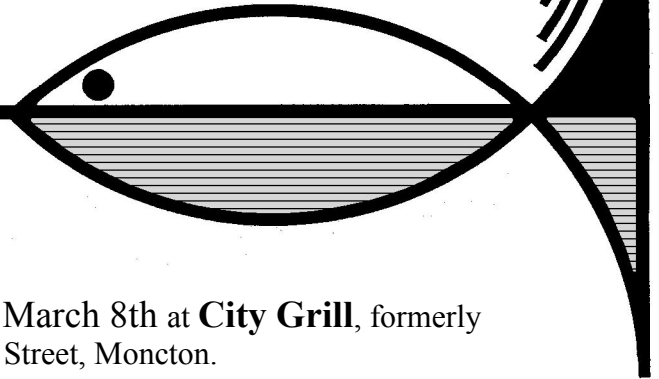


# The Herring Choker

**ASHRAE**  
NB PEI CHAPTER



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Our next meeting is scheduled for March 8th at **City Grill**, formerly Boomerangs, at 120 Westmorland Street, Moncton.

The feature presentation at this meeting will be on the topic of the Normand-Maurice building in Montréal, presented by Jean-Gabriel Joannette of Pageau Morel and Associates. A social hour will begin at 5:00 PM with a cash bar. The presentation will start promptly at 5:30 PM, due to the presenter's time constraints. Dinner will follow at 7:00 PM

The February meeting theme will be **Student and Young Engineers in ASHRAE (YEA) Night**.

## **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.



Chapter President Bob McEwen (L) presents Simon Koeb (R) with a small gift following his presentation at the February meeting. Mr Koeb also presented a seminar on biomass boilers the following day.

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## March Program

In 2002, Public Works and Government Services Canada (PWGSC) ordered the design and construction of a federal multi-occupant building that would later be named the Normand-Maurice Building. Located in a centrally located neighborhood of Montréal, it was to house offices, classrooms, warehouses, gymnasium, underground parking spaces, indoor truck docks and an indoor firing range for the Royal Canadian Mounted Police (RCMP), the Canadian Navy and two federal departments. The building contained a total of 15 700 m<sup>2</sup> (170 000 ft<sup>2</sup>) of conditioned spaces.

The building was also to serve as a "green building prototype". It was to be at least 40% more efficient than the reference building built according to Canada's Model National Energy Code for Buildings (1997), and earn a LEED Canada NC Gold certification. Consequently, the design team implemented a varied mix of solutions to achieve the green targets. Construction started in 2003, commissioning was performed in 2006, while normal operation and occupancy began in January 2007. Since then, the Normand-Maurice Building has won several awards, including an ASHRAE International Technology Award (International Award) 2009 in the New Institutional Building Category.

## Speaker Biography

Jean-Gabriel Joannette has worked as mechanical project engineer for the drafting of required documents pertaining to the LEED Canada NC certification and the CBIP grant, following the construction of Normand-Maurice Building. This building is now a reference for PWGSC in energy efficiency and ecology and has received its LEED-NC Gold certification.

With his Bachelor's degree in mechanical engineering from École Polytechnique de Montréal, Mr. Joannette joined Pageau Morel and Associates in 2005, a consulting engineering firm of 180 employees completely dedicated to mechanical and electrical engineering. He is involved in ASHRAE as Vice-Chair of Region II for the Technology Transfer Committee. Other than the Normand-Maurice building, Mr. Joannette has worked on several office and public building projects, by designing ventilation and heating/cooling systems conceived to optimize energy efficiency while preserving operational simplicity. Three of these office towers are currently being built and aim to be LEED Certified.

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## Summary of February Meeting

Thirty people turned out on February 8 for a presentation on biomass boilers. Simon Koeb of Viessmann Manufacturing in Vancouver was the speaker, and he also presented a day-long seminar on the topic the next day. A link to Simon's Power Point slides will be posted on the chapter's website.

The pros and cons of various biomass fuels (wood pellets, wood chips or wood residue) were discussed, as well as other considerations regarding fuel supply and storage, ash, and emissions. Because biomass boilers take longer to adjust to load variations, a hot water storage tank is essential. Boilers should be sized to operate a minimum of 12 hours at minimum output level, and at least 2000 hours per year at maximum output to shorten amortization periods.

Some case studies were discussed, including some schools in PEI and Nova Scotia. The largest project described was La Cité Verte, in downtown Quebec City. This is a district heating system serving 840 units. There are four 1250 kW wood pellet fired boilers and a 5000 kW biodiesel fuelled emergency boiler. The system includes two 5500 gallon buffer tanks and 44 district heating sub-stations. More information is available at <http://citeverte.ca/>.

## Important Notice about *The Herring Choker*

Beginning on July 1, 2011, *The Herring Choker* will be delivered **only** as an email attachment. Therefore, it is important that we have your current email address. If you are already receiving *The Herring Choker* by both hard copy and electronic versions, you do not have to do anything. However, if you are not currently receiving the electronic version, it may be because your email address on file with ASHRAE Society in Atlanta is out of date. You can update your ASHRAE information at [ashrae.org](http://ashrae.org) by clicking on "Manage Membership" on the left hand side of the ASHRAE home page. However, to ensure you don't miss any issues, please email your preferred email address to Robert Hoadley at [robert.hoadley@rogers.com](mailto:robert.hoadley@rogers.com).

## Efficiency New Brunswick Premier's Awards for Energy Efficiency

ENB is currently seeking nominations in several categories for the Premier's Awards in Energy Efficiency. The Awards showcase our province's innovators in energy efficient design.

More information can be found online at: [www.energycynb.ca/premiersawards](http://www.energycynb.ca/premiersawards). Nominations close on March 15.

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## NB/PEI ASHRAE Chapter Meeting Schedule 2010/2011

March 8, 2011

Student Night and YEA Night with CTTC RVC Jean-Gabriel Joannette  
Topic: 1<sup>st</sup> Place Technology Award Winner – 740 Belair in Montréal

April 12, 2011

Research Promotion Night  
Topic: Sustainability and Implications in Context of Power Plants

April 21, 2011

Refrigeration On-line Seminar  
Topic: Geothermal Heat Pumps (Half-Day Seminar)

May 10, 2011

Technical Tour w/ NBCC Moncton and NBCC Saint John students  
Topic: Tour of NY Thermal plant in Saint John, NB

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