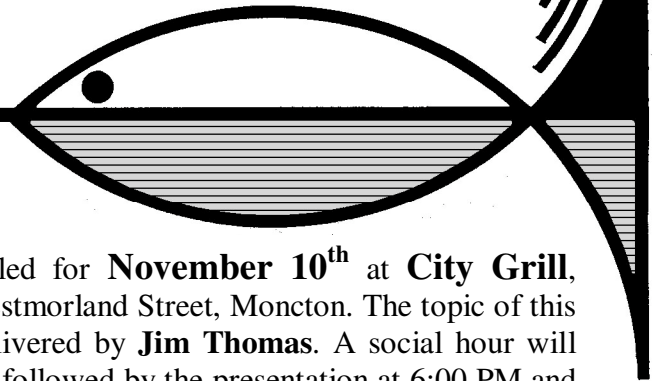


# The Herring Choker

**ASHRAE**  
NB PEI CHAPTER



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### **Newsletter/Website:**

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### **Board of Governors:**

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Fred Desjardins,  
Gerry Waselynychuk  
Craig Brown,  
Mathieu Breau,  
Richard MacArthur

This month's meeting is scheduled for **November 10<sup>th</sup>** at **City Grill**, formerly Boomerangs, on 120 Westmorland Street, Moncton. The topic of this meeting will be **Refrigerants** delivered by **Jim Thomas**. 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 November meeting is **Refrigeration 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.

## **ASHRAE NB/PEI Chapter - Afternoon Out With the Cats**

Reminder - The ASHRAE NB/PEI Chapter would like to invite all chapter members and guests to attend a hockey game between the Moncton Wildcats and the Halifax Mooseheads on Sunday February 28, 2010. Details are included in the registration form, which can be found on our website at [www.ashraenbpei.com](http://www.ashraenbpei.com). The deadline for registration for this event is January 30, 2010. If you have any questions, please contact Dan Boudreau at (506) 858-1300 or by email at [dboudreau@enerplan.com](mailto:dboudreau@enerplan.com).

## **Research Promotion Awards**

During last month's meeting, the following Chapter members were honored for their great work doing Research Promotion: (left to right) Dwight Scott, Michael Gillis, Gary Hoadley, Dan Boudreau, John Willden, Fred Desjardins, Luc Dugas and Gerry Waselynychuk.



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

Toronto Winnipeg Vancouver Ottawa Moncton Saint John

## November Program

Title:

Refrigerants - Current and Future Trends

Topics covered:

Presentation includes information on current HCFC-22 replacements refrigerants, surplus refrigerant disposal options, possible future refrigerants and recent developments in the industry.

## Biography - Jim Thomas

A native of Nova Scotia, Jim Thomas is entering his thirty-ninth year in the HVACR industry. Jim holds an inter-provincial certificate in the Refrigeration and Air Conditioning Trade. His experience includes the installation and service of commercial, industrial and marine and mobile air conditioning and refrigeration systems, the marketing and design of HVACR systems, management of a multi branch HVACR wholesale distribution business, design and manufacture of refrigerant process equipment, and most recently, research and development of non-ozone depleting replacement refrigerants. In 1993, Jim established Canada's first refrigerant reclamation facility and subsequently developed and patented a number of refrigerant-related technologies that are currently in use on four continents.

He is past president of the Nova Scotia Chapters of both RSES (Refrigeration Service Engineers Society) and HRAI (Heating, Refrigeration and Air Conditioning Institute of Canada), and a former national board member of HRAI. Most recently he has served on the HRAI/RMC (Refrigerant Management Canada) Task Team. Jim is a Certificate and Specialist Member of RSES and throughout his career has been committed to the continuing education of those who work in the HVACR industry. He is a qualified instructor for the HRAI CFC/HCFC/HFC Emission Control Course. In addition he has designed and delivered a number of training sessions to private industry, educational institutions, Federal and Provincial Environment Departments and United Nations Organizations.

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## Summary of October Meeting

Mr Raoul Gautreau, made a very informative presentation on CGC hybrid heat pump systems. Individual water-source heat pumps extract or reject energy from a hydronic loop for heating and cooling. Fan coils deliver heated or cooled air to individual zones as required. As opposed to traditional systems, the CGC heat pumps have no refrigerant reversing valve, and no heat is reclaimed from the compressors in the heating mode. Rather, in the heating mode, water is diverted through a secondary heating coil in the fan coil units. This eliminates the need to run the heat pump compressors in the heating mode. Therefore, higher water loop temperatures are required. An outdoor temperature sensor is used to schedule the water loop temperature limits according to the balance between heating and cooling loads in the building. A boiler and a liquid cooler are installed in the water loop for periods where the heat pumps themselves cannot meet the total heating or cooling requirements of the building.

In summary, the hybrid heat pump system operates as a traditional heat pump unit on the cooling cycle, but in the heating cycle, it operates as a simple fan coil unit, without the compressors running. The hybrid heat pump system also lends itself well to be married to a geothermal heat pump system, with the ground water acting as a heat sink in warmer weather and a heat source in winter.

Following the presentation, certificates of appreciation were presented to contributors to last year's ASHRAE Research Canada campaign. Yves Savoie and Mathieu Breau gave a short summary of the Young Engineers in ASHRAE (YEA) weekend they attended recently at ASHRAE headquarters in Atlanta, GA.



Chapter President John Willden presents Raoul Gautreau with a gift after his presentation



Yves Savoie and Mathieu Breau review the YEA weekend with Chapter members.

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## NB/PEI ASHRAE Chapter Meeting Schedule 2009/2010

November 10, 2009

Refrigeration Night

Topic: Refrigerants

December 8, 2009

Past Presidents Night / History Night

Topic: Chris Rock Presentation / Christmas Party

January 12, 2010

Membership Promotion Night

Topic: Construction Professional Liability

February 9, 2010

Research Promotion Night / Refrigeration Night

Topic: Hydronics and Variable Speed Pumping

February 28, 2010

Social Event: Wildcats Game Night

March 9, 2010

Student Night

Topic: Instantaneous Water Heaters

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

August, 2010

Golf Tournament

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