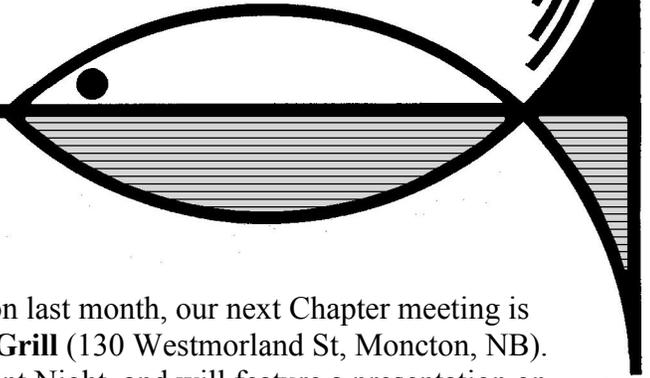


# The Herring Choker

**ASHRAE**  
NB PEI CHAPTER



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After a successful start to the season last month, our next Chapter meeting is scheduled for **October 11** at **City Grill** (130 Westmorland St, Moncton, NB). The October meeting will be Student Night, and will feature a presentation on chilled beams by Daniel Harris, Vice-President, Engineering with Dadanco.

## **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 the Moncton Construction Association.



The 2011 ASHRAE Region II Chapter Regional Conference (CRC) was held in late August in Quebec City. Five members of our Chapter were presented with awards at the conference. Pictured with their certificates and our Chapter awards banner are, from left to right: Dwight Scott, John Willden, Fred Desjardins, Chuck Edwards, and Carman Travis. Congratulations, gentlemen!

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## October Meeting Speaker Biography

Daniel Harris graduated from the University of Adelaide in 2002 with an Honors Degree in Mechanical Engineering. Upon graduation, he joined BESTEC, the largest consulting engineering company in South Australia and held the position of Senior Mechanical Engineer within 3 years. Mr Harris worked on many high profile projects and designed a number of projects with Active Chilled Beams.

In 2005, Mr Harris joined Dadanco in the role of Technical Manager and was responsible for all engineering departments and projects throughout Oceania, Europe and the Americas. Mr Harris has a keen interest in projects that utilize new technology and has worked in developing new and improved products with Dadanco with an emphasis on energy and cost reduction.

Dadanco Pty Ltd, headquartered in Adelaide, Australia, is the leading manufacturer of active chilled beams in Australia. In mid-2007 Mestek and Dadanco formed a joint venture to produce active chilled beams, induction diffusers and induction units for the North and South American markets. The products are produced in the USA in Mestek's manufacturing facility in Wyalusing, PA and Westfield, MA. Mr Harris holds the position of Vice President, Engineering with the Dadanco LLC joint venture and oversees all of the engineering, technical decisions and manufacturing partner relationship.

Mr Harris is an accredited professional in the Australian equivalent of LEED (Green Building Council of Australia) and has worked on many green certified projects that utilize energy efficient HVAC technologies. Mr Harris and his wife, Iluka and daughters Keala and Indie, reside in Westfield, MA.

The presentation will provide an introduction to active chilled beams. Mr Harris will summarize the benefits of active chilled beams, application and cost considerations, as well as provide a primer on system design. Case studies and product models will also be reviewed.

## ASHRAE Winter Conference

The 2012 ASHRAE Winter Conference will be held in Chicago from January 21<sup>st</sup> to the 25<sup>th</sup>. Members registering for the conference before October 31<sup>st</sup> will receive an Early Bird registration rate of US\$ 485. Conference information, schedules, and registration information can be found at [www.ashrae.org/events/page/Chicago2012](http://www.ashrae.org/events/page/Chicago2012).

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## Summary of September Meeting

Roger Nasrallah, ing. of Enertrak spoke about variable refrigerant flow (VRF) systems and how refrigeration systems are now moving toward variable flow technologies. Mr Nasrallah explained that these systems are decentralized, and therefore are able to deliver comfort more accurately.

VRF systems consist of outdoor units and indoor units, which are both capable of modulating. The indoor unit coils are equipped with linear expansion valves (LEV), and modulate based on the superheat detected by electronic thermistors located on the condensing coil. The LEV also acts as a solenoid valve to stop refrigerant flow to dormant units. The outdoor unit compressor varies its speed based on the common saturated suction temperature. The flow of refrigerant in the compressor is directly proportional to the compressor speed, and the power input is directly proportional to the cube of the compressor speed. VRF systems modulate the supply air temperature while air flow remains constant.

Mr Nasrallah then discussed the different configurations of VRF systems, including 2 pipe cooling only, 2 pipe heating or cooling, 3 pipe simultaneous cooling and heating and combination with water and geothermal applications.

VRF systems can offer other benefits besides energy savings. One such benefit is better humidity control, as the coil is always cool and humidity is recirculated to the space. VRF system also do not require large mechanical rooms, and noise is reduced as the compressors are located in the outdoor unit.

## ASHRAE New Faces of Engineering

ASHRAE has put out a final call for nominations for its New Faces of Engineering recognition program. The program, started in 2003, recognizes engineers 30 years of age or younger (as of December 31, 2011) for their outstanding achievements in their young careers. Nominations must be submitted by October 21, 2011.

To nominate someone (or yourself), visit [www.ashrae.org/NewFaces](http://www.ashrae.org/NewFaces)

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## NB/PEI ASHRAE Chapter Meeting Schedule 2011/2012

October 11, 2011

Student Night

Topic: Chilled Beams

November 8, 2011

Membership Promotion Night

Topic: Dedicated Outdoor Air Systems

December 13, 2011

Research Promotion Night

Topic: Christmas Party and Past Presidents Night

January 10, 2012

Topic: CRN Numbers for Natural Gas Installations

February 14, 2012

Topic: Investments and Tax Free Savings

March 13 2011

Membership Promotion Night

Topic: Speaker from Moncton Construction Association

April 10, 2012

Research Promotion Night

Topic: ASHRAE Distinguished Lecturer - To Be Announced

May 2-3, 2012

MEET SHOW

June 12, 2012

Topic: Alternative Energy

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