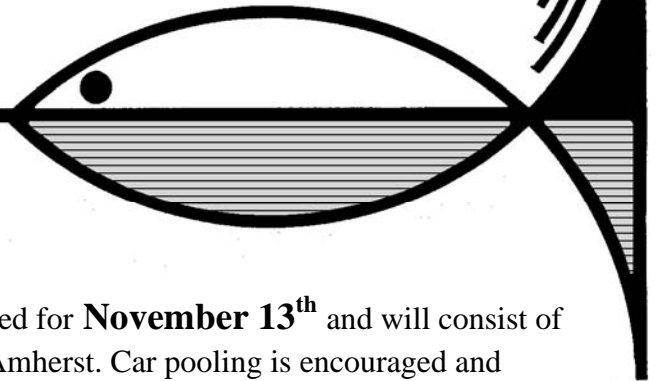




The Herring Choker

ASHRAE
NB PEI CHAPTER



2007-2008 Executive

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Board of Governors:

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Tyson Silliker
Camille Chevarie
Damien Monk
Charles Edwards
Kenneth Martin

The November meeting is scheduled for **November 13th** and will consist of a technical tour of **Polycello** in Amherst. Car pooling is encouraged and **departure will be from the Coliseum Parking Lot at 4:45 pm.** The tour will begin at 5:30 pm and an informal dinner will follow at a local restaurant. For directions to the Plant see page 2.

IMPORTANT: Safety boots are **MANDATORY.**

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 Boomerangs.

2007/2008 Meeting Schedule

To find out what is planned for the upcoming year, see page 4 for the NB/PEI ASHRAE Chapter Meeting Schedule for 2007/2008 or visit our Chapter website at www.ashraenbpei.com for the schedule and much more.

Note from the President:

ASHRAE has recently changed its member data base program. I have tried to update our spread sheets for Choker mailing labels and email addresses accordingly, taking into account other information in my files.

PLEASE advise me if you are not receiving both the print and electronic versions of the newsletter. Thank you.

Dwight Scott

dgscott@unb.ca or 506-204-2820

Obituary

Members of the NB/PEI Chapter wish to express our condolences to Chuck Edwards, whose father, Charles Joseph Edwards of West Chezzetcook, NS, died on October 8, 2007.

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Polycello technical tour:

Polycello, a Division of EPC Industries

PolyCello creates high quality flexographic packaging from extrusion to printing to distribution. PolyCello is the producer of polyethylene film and printing for the overwrap and frozen food industry. They have converting capabilities for plastics, lamination for graphics and the ability to create zipper bags. You can see Polycello polyethylene films when walking into any local grocery store on many types of products. It is their applications for the various products that interest people from the HVAC industry from plumbing, mechanical, ventilation and controls.

Directions to Polycello, Amherst

Take Hwy 2 and continue past NB/NS boarder and continue until you see Wandlyn Hotel coming up on the right hand side of the Hwy 2. This is Exit 104. Take offramp up to stop sign and turn right. This is route 6. Continue approx 2 km/s to Tupper Blvd. Turn right onto Tupper and drive a short distance. You will see Polycello (12 Tupper Blvd) on the right-hand side. Park in the visitor parking area.

Important

- Safety boots are **MANDATORY**...hair nets will be provided or you can bring a baseball hat.
- If you plan on attending, please notify Patti Crouse at 857-8833 ext 112 or pcrouse@controlsequipment.com.



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Summary of October's meeting

Farid Bahiou of Wilo Pumps made a Power Point presentation on the advantage of variable speed pumping. A brief review of the similarity laws (power is proportional to speed ratio *cubed*) means that power requirements can be reduced by almost 90% if the operating speed (and thus, flow rate) is halved.

Most pumps are oversized, due to multiple safety margins. There are an estimated 2 million circulation pumps sold annually for use in hydronic systems in North America. All of the above factors reinforce a strong case for the application of variable speed pumping.

Mr. Bahiou then gave an overview of pump characteristic curves, indicating that changing pump speed is much better than throttling for partial flow conditions. He then discussed the two common methods of adjusting pump speed:

- asynchronous squirrel-cage motor – speed is controlled by varying frequency (VFD)
- electronically commutated motor (ECM) – a brushless synchronous motor with a permanent magnet rotor – speed is controlled by varying the rpm of a magnetic field in the stator. The variable magnetic field requires an electronic controller.

Life-cycle cost favors the use of ECM drives for pumps with variable flow requirements. Additionally, the use of pump vs system head-flow curves showed a preference for constant pressure differential instead of proportional pressure differential, in order to keep pressure loss to a minimum.

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NB/PEI ASHRAE Chapter Meeting Schedule 2007/2008

November 13, 2007
Research Promotion Night
Technical Tour
Location: Polycello, Amherst

December 11, 2007
History Night
Topic: BACnet

January 8, 2008
Student Night
Duct Insulation

February 12, 2008
Research Promotion Night
Topic: Air/Air Heat Recovery

March 11, 2008
Membership Night
Topic: Humidification

April 8, 2008
Student Night
Topic: Distinguished Lecturer

April 16, 2008
ASHRAE WebCast
Topic: Integrated Building Design

May 7-8, 2008
MEET Show
Topic: Distinguished Lecturer

June 10, 2008
Technical tour
Location: Molson Brewery, Moncton



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