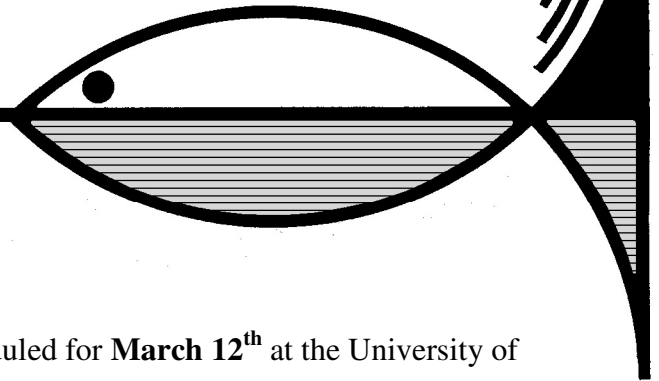


# The Herring Choker

**ASHRAE**  
NB PEI CHAPTER



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Christopher Sanderson

The next Chapter meeting is scheduled for **March 12<sup>th</sup>** at the University of New Brunswick in Fredericton.

This month's meeting will feature a Technical Tour of the University's Head Hall Energy Retrofit. This event will be **co-sponsored by the APEGNB Fredericton Branch.**

At 5:30 free pizza and beverages will be available in Gillin Hall, Room C127 for those who have pre-ordered.

At 6:00 pm the following will be presented:

- Overview of UNB's Energy Management Program which has been ongoing since 1996 (Tom Gilmore, Energy Manager, UNBF)
- UNB's success in leveraging incentive programs and energy awards (Brent Godbout, Efficiency New Brunswick)
- Overview of the Head Hall Retrofit and savings realized (Tim Cross, UNB Energy Coordinator and Carman Travis, Partner, MCW Maricor)

At 6:45 pm the following tours will be given:

- Live demo of EMS in GC127
- Chiller plant
- Lighting and Level D
- Penthouse

## **Executive Meeting Notice**

A reminder to the Executive, Board of Governors, and the Committee Chairpersons that the Executive meeting has been changed to Friday, March 15<sup>th</sup> starting at 12:00 PM. The meeting will be held at the Moncton Northeast Construction association. Lunch will be served.

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

Toronto Winnipeg Vancouver Ottawa Moncton Saint John

## TECHNICAL TOUR ABSTRACT:

In 2012, *Efficiency NB* selected UNB's Head Hall complex energy retrofit as the **Outstanding Energy Efficiency Project – Commercial**. More details may be found at: [http://0101.nccdn.net/1\\_5/39a/0a3/0a2/UNB-Head-Hall.pdf](http://0101.nccdn.net/1_5/39a/0a3/0a2/UNB-Head-Hall.pdf).

The University of New Brunswick uses an energy management (EM) program to project cost avoidance and measure savings. Other retrofits include:

- Full lighting retrofit
- Conversion of two major HVAC systems from constant volume dual duct to VAV dual duct
- Energy Recovery Ventilation (ERV) for minimum fresh air – two systems
- Correction of a lab exhaust OHS issue on the roof, allowing the positioning of the new energy recovery system
- Conversion of two old multi-zone AHUs to multi-zone VAV. The old system used to provide hot and cool air streams which were then mixed according to need – wasting energy. The systems supply auxiliary cooling in the Server Room on D Level. Now they provide only heating **or** cooling as required.

## SUMMARY OF FEBRUARY MEETING:

February meeting was a presentation on Displacement ventilation by Samuel Frenette of Price HVAC Industries Ltd in Winnipeg. The presentation was attended by 28 participants.

The presentation started with:

- An overview of Displacement Ventilation
- Theory and Design Consideration of Displacement Ventilation
- Design Procedures
- Benefits and Application
- Displacement Products and Installation examples

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This technology has been used for over 30 years in Europe with its origin in Industrial Facilities. It has been applied in the comfort market since 1980. Compared to the conventional mixing systems with Displacement Ventilation it is the heat source that drives the air motion. Since there is no mixing only occupied zones come into play thereby improving the air quality and we are able to supply air at a higher temperature of 65F to 68F into the room.

Design considerations include Thermal Plume effect, how the occupants are located, how other heat sources are located thus allowing to consider only effective occupied zones which results in lower Outdoor air quantity and higher Ventilation Effectiveness.

The speaker also touched on the various benefits of this system such as:

- Flexibility
- Improved IAQ resulting in better occupational health
- Lower absenteeism
- Higher staff retention
- Improved staff/student performance
- Better thermal comfort
- Energy savings since OA is reduced, reduced Static Pressure & lower HP fan power
- Qualifies for LEED & CHPS

This system has many applications, such as Schools, Theatres, Casinos, Airports, Healthcare facilities, Halls & Conference rooms, Restaurants and Industrial spaces.

Mr Frenette also touched on the many ventilation products that are available and showed many slides of installation examples showing how this technology can be applied to suit each such facility.

If you wish to have a pdf copy of the Power Point Presentation, please email your requests to samuelabu@rogers.com

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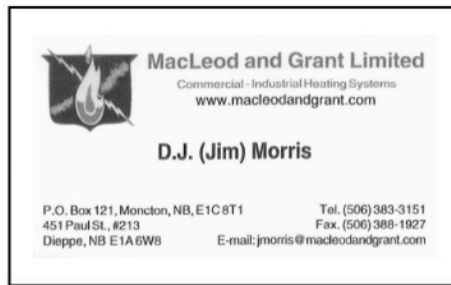
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## MEMBERSHIP:

The Chapter would like to recognize the following NEW Chapter Members:

**Scott Wade & Andrew Campbell**

The Chapter would also like to congratulate the following Chapter Members who have been approved for advancement to Member grade.

**Andrew R. Brown  
Marc-Andre Fournier  
Glen G. Howatt  
Chris G. Thompson**

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## SCHOLARSHIPS:

The happy winner of the Emille R LeBlanc Scholarship 2012 is Brandon Drake. The scholarship is in the amount of \$1000 and is awarded by the NB/PEI Chapter.

Brandon is a second year student in the BSET (Building Systems Engineering Technology) program at The New Brunswick Community College in Moncton New Brunswick. He is also taking chemistry on-line and is intending to continue on to UNB to study electrical engineering.

The scholarship is awarded to a student who demonstrates financial need, community service and is in the BSET program in Moncton. It is being presented by the Student Activities Chair and Faculty Advisor John Willden, P.Eng, MBA.





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## NB/PEI ASHRAE Chapter Meeting Schedule 2012/2013

April 18, 2013

Topic: 9<sup>th</sup> Annual ASHRAE CTTC Webcast:  
Assessing Building Energy Performance

April 23, 2013

Topic: ASHRAE Distinguished Lecturer – Hoy Bohanon

May 14, 2013

Topic: High Induction Diffusers

June 11, 2013

Topic: Dumont Energy Centre Tour

## Social Events

Moncton Wildcats Game – March 10, 2013

Curling Fun Spiel - TBA

Lobster Kitchen Party @ Captain Dan's Shediac, NB - TBA

ASHRAE Join us at **ASHRAE's 2013 Annual Conference**  
Denver, Colorado | June 22–26, 2013

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Take advantage of the opportunity to discuss and examine the latest topics in the building industry, such as high performing buildings and integrated design, through the technical program; participate in technical tours; attend ASHRAE Learning Institute courses; and earn professional credits.

**Research Summit** — held in conjunction with the 2013 Annual Conference. The summit addresses the latest research results, innovative research techniques and forecasts future research directions.

**Technical Program** — presentations and papers focus on current research worldwide; core HVAC&R applications and systems; and Integrated Project Design, Energy Modeling and Building Efficiency Performance.

**Networking** — share ideas and learn from fellow members from your hometown and around the world.

**ASHRAE Learning Institute** — seven in-depth training courses including a new Professional Development Seminar on Operations and Maintenance of High-Performance Buildings and a new Short Course on Optimization of HVAC Systems and their Components.



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