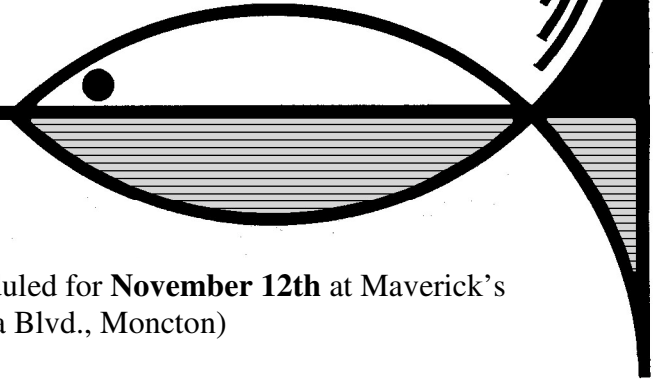


The Herring Choker

ASHRAE
NB PEI CHAPTER



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Grassroots Government

Activities:

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Refrigeration:

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Board of Governors:

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Ken Martin, Robert McEwen,
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Sanderson, Yves Savoie
Chris Thompson,
John Willden

The next Chapter meeting is scheduled for **November 12th** at Maverick's Steakhouse & Grille (40 Lady Ada Blvd., Moncton)

This month's meeting will feature a presentation by Lonnie Minarich. Lonnie's presentation will include:

- Hybrid System – Combining conventional boiler/tower elements with geothermal
- One pipe and primary / secondary systems
- Control and technology developments

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.

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 Maverick's Steakhouse & Grille.



Lonnie Minarich is currently the Regional Manager for Climatemaster Water Source Heat Pumps. Previous positions include Marketing Manager, Product Manager and Product Engineer. Prior to that Lonnie was the Product Manager at Enercon (water source heat pumps) and was also the Product Manager for American Air Filter. Lonnie has a BSME from Rose Hulman College and a MSBA from Indiana University.

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Summary of October 8th Meeting:

October meeting was a presentation by Rick Lawlor P.Eng. LEED AP of International Wastewater System on Sewage-Wastewater a Renewable Energy Source.

The presentation highlighted the various factors that contribute to the research and implementation of new and sustainable energy sources. In recent years this research had discovered that society injects billions of BTUs /Joules /KW-HRS into water that is ultimately discarded.

The newest player on the alternate energy landscape comes from buildings, beneath sidewalks, beneath roadways and it is sewage.

- Reliable source – People
- Essentially 95% + liquid, with some solids
- Is a Low Carbon Energy Source
- Temperatures support energy exploitation;
 - Summer 12 C – 25 C (54 F – 77 F)
 - Winter 10 C – 16 C (50 F – 61 F)

Typically Energy exchange (demand) takes place near source (supply)
 $ENERGY = Flow (m) \times Cp (constant) \times T (temperature\ change)$

“350 Billion Kw-Hrs worth of hot water are discarded annually through drains in North America”. Reference: US Department of energy.

Typical Sources:

Laundry, Dishwasher, shower/Bath, Cooking and Process

Let's put 350 Billion Kw-Hrs energy in Context:

Point Lepreau Generating Station

- 635 MW Capacity via 1 CANDU reactor which delivers 4 billion Kw-Hrs annually and it will take 88 Point Lepreaus to produce 350 Billion Kw-Hrs.

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Chantal Daigle Verrier, P.Eng., LEED AP, CMVP
Manager | Energy Practice | Moncton

Value of energy in sewage water

- USDOE 350,000,000,000 Kw-Hrs Annually
- Equals ~ 12,000,000,000 Therms
- @ \$ 1.35 / Therm ~ \$ 16,200,000,000
- @ \$ 0.10 / Kw-Hr ~ \$ 35,000,000,000

Facts about Waste Water:

- Waste water has an average temperature of over 21°C (or 70°F) when exiting buildings.
- The average person in North America uses ~ 375 liters (or ~ 100 gallons) of water daily.
- 40-50% of a buildings energy requirements go out via the sewer everyday.

In-line Gravity Sewer HX

- Requires energy upgrade (Heat-Pump)
- Minimum sewer diameters required
- Higher frequency Maintenance / cleaning
- New construction/replacement optimal

Applications of In-line Gravity Sewer HX

- District Energy Systems
- Condominiums & Apartments
- Public / Government Facilities
- Geothermal
- Aquatic Centers
- Commercial & Retail Buildings
- Industrial Complexes
- Hospitals & Long-term Care
- Universities & Colleges
- Schools & Sport Facilities

SUMMARY:

1. Sewage is a reliable and ever-increasing “free” energy resource.
2. Sewage energy-exchange technology is available to leverage the energy opportunity offered with sewage-wastewater.
3. Sewage energy-exchange technology can provide a cost-effective and environmentally-friendly means to augment building heating, cooling, and domestic hot water systems.

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MEMBERSHIP:

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

Martin Alphonese Phinney
Daniel Goulet

NEW STUDENT MEMBERS:

Imed Ben Amor	Michel Bourgoin	Jean-Richard Cormier	Felix Dupuis
Benoit Fournier	Mohamed Hichri	Justin LeBlanc	Chris Morrison
Rickey Noel	Younes Rassif	Philippe Richard	Jonathan Robichaud
Allain Theriault	Dominique Allard	Yanik Belliveau	Ian Blundell
Francois Cormier	Mitchell Cormier	Craig Ellis	Dylan McWhirter
Shelby Gallant	Adam Geikie	Corey Girouard	Peter Hall
Julien Poirier	Stephen Abbot	Tyson Adams	Pat Blakely
Nicholas Boudreault	Brandon Bradley	Marie-Eve Chiasson	Jonathan Clarke
Leah Collett	Spencer Corkum	Courtney Duke	Thomas Fanjoy
David Garland	Teddy Gere	William Gourley	Brandon Goodfellow
Jamie Mahaney	Kara Nicholson	Jeff Pauley	Kendra Perley
Aaron Quartermain	Nicholas Ryan	Nathan Scott	Min-Seop Song
Joshua Sutton	Steven Urmos	Andrea Vetter	Colin Watts
Nathan Wood	Bede Akuwueze	Alexa Bailey	Justin Bernard
Aaron Blakely	Alexandra Boyle	Ben Breen	Josh Brown
Alex Chouinard	Nathan Evans	Kenton Folkins	Mark Forestell
Ryan Freeze	Allen Graves	Maranda Guitard	Cody Hanley
Matt Jones	Addison Kennedy	Elizabeth Landry	Kyle Mabey
Travis McCarthy	Stewart McNeil	Courtenay MacDonald	Amy MacVicar-Peters
Stewart McNeil	Jeremy Moore	Kyle Moore	Stephanie Nash
Isaac Nice	Laura Marie Nurse	Victor Okocha	Cody Palmer
Aric Pitre	James Pinfold	Jonathan Richard	Daniel Riley
Ashley Sommers	Devin Stevens	Kyle Stevens	Eric Theriault
Ryan Thomas	Ashton Thomson	Dustin Thorne-Curtis	Henrik Tonning
Kyle Uhlig	Jaye Walsh	Shunchao Wang	Anna West
Shaobo Zhuang	Brendan Forbes	Mohammadreza Soleymani	Courtney Kohoe
Chhabilal Thapa	Colin Murphy		



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NB/PEI ASHRAE Chapter Meeting Schedule 2013/2014

November 12, 2013

Topic: New Generation of Water Source Heat Pumps

December 10, 2013

Topic: Real Estate

January 14, 2014

Topic: Building a Smart Building for a Low Construction Cost

February 11, 2014

Topic: Low Temperature Heating / LEED

March 11, 2014

Topic: Dehumidification for natatoriums and Ice Rinks

April 8, 2014

Topic: Distinguished Lecturer – To be Announced

May 7-8, 2014

MEET Show

June 10, 2014

Topic: To Be Announced

Social Events



ASHRAE NB/PEI CHAPTER
AFTERNOON OUT WITH THE MONCTON MIRACLES

Date and Time: Sunday November 17th, 2013 at 2:00 PM

Information & Registration: www.ashraenbpei.com

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