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THE HERRING CHOKER ASHRAE NB/PEI CHAPTER

March 2024

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Chapter Announcements

1. Lucy's Engineering Adventure (Fundraiser)

As first announced in the May newsletter, the ASHRAE NB/PEI Chapter is proposing to provide a copy of ***Lucy's Engineering Adventure*** to every Anglophone K-5 school in New Brunswick and Prince Edward Island; the territories that we serve.

Our goal is to raise **\$2,500** to be able to purchase the books. Donations can be sent by e-transfer to treasurerashraenbpei@gmail.com, or by mail to the following address:

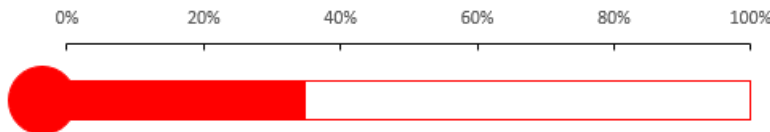
ASHRAE NB/PEI CHAPTER
P.O. Box 1629
Moncton New Brunswick
E1C9X4

*Please note on the envelope "Lucy's Engineering Adventure" somewhere on the mailed donation.

Any donation large or small will help to get us to this goal. We appreciate your support!

*March 6th, 2024 Update: We have raised **\$870 / \$2,500**

Let's work together to fill up the progress bar below!!



2. Request for Assistance: Heat Pump Technology (HPT) Research Study through Annex 60

National Resources Canada are involved with Annex 60, a collaborative program with the IEA, which studies retrofit heat pump systems in non-residential buildings. The outcome of Annex 60 will be to provide high-level guidance for building owners and decision makers to implement heat pump technologies in their own buildings based on the successes and feedback of the industry.

This phase of research is titled "Task 2 - Case Studies of Existing Projects" and is looking for volunteers to simply fill out a high-level case study log on any buildings that meet the criteria. The submissions will be reviewed and those that are identified by Annex 60 as suitable projects will be contacted for more details.

More information can be found at the following links:

[Annex 60 website](#)

[Research Summary \(pdf\)](#)

[Case Study Log \(excel sheet\)](#)

If you are interested in participating or have other questions please reach out to frederic.genest@NRCan-RNCan.gc.ca

3. Did you know we're on social media?!

Follow us on LinkedIn and Facebook to find out about events when they're announced (click the icons below or at the bottom of the newsletter).



Monthly Presentation

March 12th, 5:00PM - 8:00PM AST

TOPIC: Acoustics and Barrier Walls

In the evolving landscape of modern architecture and urban development, the integration of effective HVAC systems with advanced acoustic solutions and barrier walls plays a pivotal role in creating comfortable and sustainable living

and working environments. This presentation delves into the intricacies of acoustics in HVAC systems, exploring the science behind sound transmission and the innovative strategies employed to mitigate noise pollution.

Recommended audience: Engineers, Contractors, Students, Building Owners

About the Presenters:

Kristen Neath – Kinetics Noise Control Inc

Kristen Neath is the Canadian National Sales Manager at Kinetics Noise Control, Inc. overseeing the industrial (in plant), commercial, and environmental (outdoor) markets. Since joining the company in 2014 she has developed a thorough understanding of noise control design of products and solutions, and the noise control market. She is committed to providing cost-effective and creative solutions to solve a variety of noise challenges for commercial buildings and industrial facilities. As a result of her vast experience Kristen has been invited to speak and provide webinars for ASHRAE, AMCA International, and Women in HVACR. Prior to joining the company, Kristen developed her knowledge of sheet metal design and engineering through her employment with other sheet metal fabrication companies. Kristen is a graduate of Conestoga College with a Bachelor of Engineering in Mechanical Systems Engineering



Event Details:

When:

March 12th, 2024

Location:

Legends Lounge (Moncton Coliseum Arena Complex - Entrance C)
377 Killam Dr, Moncton, NB

Agenda:

5:00pm - 6:00pm: Social Hour

6:00pm - 7:00pm: Presentation

7:00pm: Dinner is Served

Pricing:

ASHRAE Members - \$30

Non-Members - \$55

Students & Retirees - \$20

Presentation Only (No Meal) - \$0

*If this is your first time attending you may use promo code "**FIRST**" at checkout
and have your meal covered by ASHRAE!*

Meal:

The meal will be Chef's Choice Buffet.

*Please indicate any dietary restrictions when registering

Please RSVP through EventBrite by 4pm on Friday, March 8th

[Click Here to Register](#)



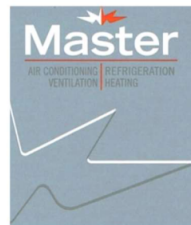
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Research Promotion

Knowledge is Power

Dear ASHRAE Research Investors,

Let me start by saying thank you for your donation on the 2023 campaign! The 2024 Research Promotion campaign is now underway. We are endeavouring to raise money for ASHRAE Research in hopes to get back to our pre-COVID levels. Since the COVID pandemic had forced sudden closures of many businesses a lot of effort was put into preserving cash flow including our own chapter. It is our hope that since the pandemic has been declared over that you are able to make a donation to the same level you did pre-pandemic. Although there is no cap or minimum donation, we can safely say that for every dollar raised ASHRAE Research Canada sees about two in return!

The honour roll investment level is \$150 for individuals and \$500 for corporations. This level of donation provides the individual or the corporation with the recognition coin, name published in the ASHRAE Journal dedicated to special RP recognition. This is also a tax deductible donation for corporations.

Donations can be made in three ways:

1) Mailed to the chapter PO Box:

ASHRAE NB/PEI CHAPTER
P.O. Box 1629
Moncton New Brunswick
E1C9X4

2) E-transferred to the treasurer email at treasurerashraenbpei@gmail.com

3) Via the www.ashrae.org website follow the links to make a gift and then invest in the RP Campaign just be sure to select the NB/PEI Chapter so that we can recognize your contributions.

We look forward to your support again in 2024. Should you have any questions or concerns please feel free to contact me directly.

Kevin Clannon, Research Promotion Chair, 2023-2024
Kclannon@Master.ca

 <p>Bill Hooper, CET Regional Sales Manager Atlantic</p> <p>T (506)651-5348 D (506) 849-1088 F (506) 849-1089 W www.uponorpro.com E bill.hooper@uponor.com</p> <p>Uponor Ltd. 87 Auburn Way Quispamsis NB E2E 5C3 Canada</p>	<div style="background-color: #2e8b57; color: white; padding: 10px;"> <p>Michael J. McCabe, P.Eng. Senior Mechanical Engineer Team Leader, Mechanical Engineering</p> <p>Michael.McCabe@englobecorp.com</p> <p>T. 506-857-2777, 178054</p> <p>ENGLOBE</p> </div> <div style="background-color: #f0e68c; padding: 10px; text-align: center;"> <p>Moncton Saint John Fredericton Edmundston Dartmouth Mount Pearl</p>  </div>
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Recap of Past Events
In Case You Missed It...

Gas Detection Systems

On February 13th we were honoured to receive a presentation on gas monitoring systems from DJ Chisholm of Belimo. It's also worth an honourable mention that Gordon Inkpen of Belimo was planning on tag teaming the presentation. Unfortunately mother nature had other plans for him, and these plans involved a whole lot of shoveling back home in Nova Scotia!

The presentation on gas monitoring systems highlighted the significance of tracking various gases across different settings to safeguard health, comply with environmental standards, and ensure public safety. It particularly emphasized the need to monitor Carbon Monoxide (CO) and Nitrogen Dioxide (NO₂) due to their prevalence in vehicle emissions. Technologies like non-dispersive infrared (NDIR) sensors for CO and electrochemical sensors for NO₂ play a crucial role in these efforts.

Another vital aspect discussed was indoor air quality, which can be impacted by a range of gases including CO, CO₂, and volatile organic compounds (VOCs). Poor indoor air quality can lead to various health issues, emphasizing the need for comprehensive monitoring. The common standard for addressing IAQ is ASHRAE Standard 62.1.

The presentation also covered the importance of monitoring CO₂, refrigerant leaks and leaks of combustible or toxic gases such as propane, methane, and hydrogen. Refrigerant leaks, involving compounds like hydrochloro-fluorocarbons (HCFCs), hydrofluorocarbons (HFCs) and the next generation refrigerants of hydrofluoroolefin (HFOs), are monitored due to their potential to harm the ozone layer and act as potent greenhouse gases. Technologies employed for leak detection include infrared sensors for CO₂ and a variety of methods for refrigerants, such as electronic leak detectors. ASHRAE Standard 15 focuses on refrigerant leak detection, and much of it has been adopted in our local code CSA B52.

Overall, the discussion underscored the broad applications and critical importance of gas monitoring systems. These technologies not only enable compliance with regulations and standards but also play an integral role in environmental protection efforts and maintaining public health. The wide range of sensor technologies mentioned provides the necessary tools for accurately measuring and monitoring gas concentrations, underscoring their essential contribution to our daily lives and environmental stewardship.

Brandon Cosman, Communications Chair, 2023-2024

Brandon.Cosman@PMCEnergy.ca



This may seem like just a normal room of engineers learning about gas detection. But to a gas monitoring system there's actually a violent battle happening between different particles, each colliding and bouncing around the room, fighting for ppm dominance. Luckily our secret weapon, the gas monitoring system, sees everything. It notices when the "bad guys" start to gain strength in numbers and will counter-attack (or open a fresh air damper), purging them and keeping us blissfully unaware as we sip our coffee and chuckle at words like methane.



Upcoming Events

The Future is Bright

Energizing Efficiency Conference

April 23-24, 2024 - Fredericton Convention Centre

Energizing Efficiency 2024 is back for its fifth year, our biggest year yet!

Elevate your efficiency knowledge and network with those leading the way in the clean energy transition. Learn from experts. Connect with industry players. Explore energy solutions, create opportunities to collaborate, and more.

Don't miss out on this incredible opportunity to learn, grow, and network at Energizing Efficiency 2024.

Please visit [Energizing Efficiency Conference](#) for more details.

The Moncton MEET Show 2024

May 1st and 2nd, 2024 - Moncton Coliseum

The Moncton MEET show is returning in May of 2024. Save the date in your calendar and stay tuned for more updates as we near the date!

We will have distinguished lecturer, Don Colliver, joining us at the MEET show who will be presenting both days of the show. The topics will be:

Topic 1 – Building Decarbonization Basics

Topic 2 – The Science Behind Climate Change and Decarbonization

The time and date for these topics will be announced closer to the date. For more information on the event please see the [Moncton MEET Show website for more details](#).

ASHRAE Region 2 CRC**August 23-25, 2024 - Toronto, ON**

The Chapter Regional Conference for ASHRAE's Region 2 is being hosted this year in Toronto. We'll update this section as more information becomes available.

Information on upcoming CRCs and past CRCs can be viewed [here](#).

NB Power Sponsored Training Opportunities

For a full list of NB Power offerings and to keep current on their upcoming events please visit the following link:

[NB Power Events and Training](#)



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VISIT OUR WEBSITE: WWW.JFTAYLOR.CA

Awards & Scholarships**Step Right Up, Win a Prize!****1. ASHRAE Technology Awards – Chapter Competition**

This year, the ASHRAE NB/PEI Chapter will host a Technology Awards Program to recognize innovative projects by Chapter Members.

The ASHRAE Technology Awards recognize members at the Chapter, Regional and Society levels for outstanding design and innovations for effective energy utilization.

The format of competition, deadlines, and judging are determined by the Chapter and will be announced shortly. The short application form (Link: [Chapter/Regional Application -- Short Form](#)) may be used for the Chapter competition and the regional competition for projects that move on to the Regional Competition.

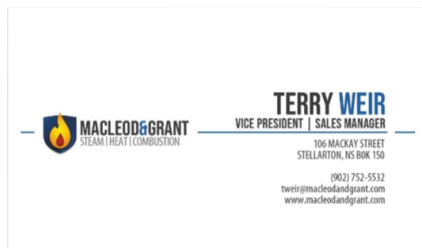
Entries can be submitted for each of the following 7 categories:

- Commercial Buildings - New, Existing and Existing Building Commissioning (EBCx)
- Institutional Buildings
 - Educational Facilities – New, Existing and EBCx
 - Other Institutional – New, Existing and EBCx
- Health Care Facilities – New, Existing and EBCx
- Industrial Facilities or Processes – New, Existing and EBCx
- Public Assembly Facilities- – New, Existing and EBCx
- Residential Buildings – New, Existing and EBCx

The ASHRAE NB/PEI Chapter's first and only Technology Award was awarded to Stephen Tweedie in 1999 for outstanding achievement in energy-efficient building design for the Nova Institution, a Federal women's correctional facility located in Truro, Nova Scotia in the Institutional Buildings category.

ASHRAE Region II, of which the ASHRAE NB/PEI Chapter is a member has a history of winning many Society level awards, and we hope to submit winning projects of our own.

The ASHRAE NB/PEI Chapter will submit one entry for each of the 7 categories listed above to the Regional Competition. See [Technology Awards Program \(ashrae.org\)](#) for more information, or reach out to your Chapter Technology Transfer Committee (CTTC) Chair, yves.savoie@englobecorp.com .



ASHRAE Job Board
Jobs, jobs, jobs!

The ASHRAE Job Board offers the following benefits for job-seekers:

- Search and apply for relevant jobs quickly and effectively.
- Set up job alerts for immediate notification of job postings matching skills and interests.
- Anonymous profiles and resume uploads.
- Useful tips and tools for improving job searching effectiveness.
- Single sign-in for ASHRAE members.

Employers can:

- Put their positions in front of ASHRAE's unique audience of engineering experts.
- Manage jobs and applicant activity on the Job Board site.
- Search the ASHRAE Job Board's candidate database.
- Limit applicants to only those qualified.
- Quickly find the right professionals for their positions.

The Job Board can be found at www.ashrae.org/jobs. The Job Board is designed to assist members and other industry professionals along with ASHRAE's student program, Young Engineers in ASHRAE, education and certification programs.

 <p>FRÉDÉRIK BERNARD Commercial Projects Manager</p> <p>71 Loftus Street, Upper Level, Moncton, New Brunswick E1E 2N1 Tel: (506) 382-8010 Fax: (506) 388-2286 Mobile: (506) 380-9216 Email: fbernard@blackandmcdonald.com www.blackandmcdonald.com</p>	 <p>Advanced Energy Management Ltd. <i>Putting our energy into saving yours</i></p> <p>222 Edinburgh Drive, Unit 1 Moncton, NB E1E 4C7</p> <p>Doug Briggs Technical Sales Representative</p> <p>Tel: (506) 857-0818 Ext 681 Fax: (506) 857-0867 Cell: (506) 878-7092 Email: dbriggs@aemltd.com Web: www.aemltd.com</p> 
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Volunteering

Many Hands Make Light Work!

Are you looking for ways to get involved in your HVAC community? Well look no further! Reach out to any of our BOG members or our Membership Promotion chair and find out how you can get started today! Or better yet come sit in on one of our monthly meetings to get a feel for things and see if it's right for you.

Our Chapter is always looking for volunteers to take on Chair or Co-Chair positions, collaborate on committees, and share feedback and ideas on how we can strive to be better than we were yesterday. Whether you're a consulting engineer, contractor, equipment supplier, property manager, or student we welcome all. By volunteering with ASHRAE you'll get the satisfaction of contributing to a global organization by making local impacts, you'll get to network with a wide range of fellow members of the community, you'll gain the experience of working with a Board of Governors structured organization, and much more!

Reach out to any member from the BOG or to our Membership Promotion Chair: Matthew Peachman [mpeachman@cbcl.ca] to get started!

 <p>Jarrett G. Steele, PEng Test & Balance Engineer</p> <p>Fredericton, NB tel (506) 206-1511 fax (506) 206-1213 jsteele@steeleengineering.ca</p> <p>Air & Water Balancing</p>	 <p>Matthew Peachman, PEng., LEED® AP, BD + C Principal Group Lead, Buildings, NB</p> <p>mpeachman@cbcl.ca P 506-633-6650 x3237 C 506-651-8993</p> <p>CBCL Limited CenterBeam Place 14 King Street, Suite 420 PO Box 20040 Saint John, NB E2L 1G2 506-633-6650</p> <p>CBCL.ca</p>
 <p>Aquavap Agencies Atlantic Inc.</p> <p>HVAC & REFRIGERATION EQUIPMENT SYSTEM SUPPLIERS SERVING ATLANTIC CANADA SINCE 1963.</p>	<p>120 Rideout Street, Moncton, NB, E1E 1E2 www.aquavapgroup.ca</p> <p>NB office: 506-857-8788 NS/PEI: 902-453-6290</p> <p>Daniel Léger <small>P.Eng.</small> Regional Manager daniel@aquavapgroup.ca</p>
	 <p>Rick Morash Branch Manager</p> <p>rmorash@yorkland.net yorkland.net</p> <p>d. 902-481-4535 t. 902-481-7590 f. 902-481-7587 m. 902-877-3852 tf. 877-733-3833</p> <p>40 Fielding Avenue, Dartmouth, Nova Scotia B3B 1E4</p>

2023-2024 Chapter Schedule

Can't make this one? Plan for the next meeting!

2023-2024 ASHRAE NB/PEI PROGRAM

Date	Topic	Presenter	Theme	Venue
September 12, 2023	Radon 101	Jeff Leblanc	Government Affairs/ Student Night	Legends Moncton Coliseum
October 17, 2023	VRF and the Transition to Slightly Flammable Refrigerants	Shawn Slaunwhite	Refrigeration Night	Legends Moncton Coliseum
November 14, 2023	Reducing Carbon Emissions and Achieving Enhanced Indoor Environments	Darryl Boyce	TBA	Legends Moncton Coliseum
December 12, 2023	Leadership Coaching	Gabriel Basque	Past-Presidents/ Student/ YEA	Legends Moncton Coliseum
January 9, 2024	Fire/Smoke Dampers	Phil Duncan	TBA	Legends Moncton Coliseum
February 13, 2024	Gas Detection Systems	DJ Chisholm	TBA	Legends Moncton Coliseum
March 12, 2024	Acoustics and Barrier Walls	Kristen Neath	TBA	Legends Moncton Coliseum
April 9, 2024	Refrigerant Phase Out	(York)	TBA	Legends Moncton Coliseum
May 1st and 2nd	Decarbonization	Don Colliver	Decarbonization	Moncton Coliseum
June 11, 2024	TBA	TBA	Membership/Tour	TBA

***On the scheduled dates above, the BOG meeting will typically begin at 4:00pm and the presentation at 6:00pm. Any changes to these times will be communicated in an email and on the website prior to the date.**

 <p>Brad McAllister Sales Representative</p> <p>155 Canaan Drive, Suite #411 Dieppe, NB E1A 0W4 bmcallister@victaulic.com</p> <p>Cust. Service: 1.877.426.3500 Fax: 506.384.3617 Cell: 506.875.3352</p>	 <p>SCOTT LEWIS TECHNICAL SALES</p> <p>451 RUE PAUL STREET DIEPPE, NB E1A 6W8</p> <p>(506) 383-3151 slewis@macleodandgrant.com www.macleodandgrant.com</p>
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2023-2024 Board of Governors The Knights of the Roundtable

Role	2023 - 2024 Executive/BOG	
President	Mike Boudreau	Executive
President Elect	TBD	Executive
Vice President	TBD	Executive
Research Promotion Chair	Kevin Clannon	Executive
Treasurer	Dan Boudreau	Executive
Secretary	Kelsey Edgecomb	Executive
Membership Promotion Chair	Matthew Peachman	BOG
Student Activities Chair	John Willden	BOG
Historian	Ryan Gosson	BOG
Chapter Technology Transfer Chair	Yves Savoie	BOG
Newsletter Editor	Brandon Cosman	BOG
Communications Chair	Brandon Cosman	BOG
Grassroots Government Affairs	Roch Couturier	BOG
YEA Chairs	Zach Thorne	BOG
Refrigeration	Vacant	BOG
Golf Tournament Chair	Ken Martin, Justin Cosman	BOG
Webmaster	Brandon Cosman	BOG
MEET Liason	Ken Martin, Devin Harinarine	BOG
BOG	Kristine Girard	BOG
BOG	Kevin Leger	BOG

Questions, comments, good HVAC jokes?
[ASHRAE NB PEI - Contact Us](#)



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