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THE HERRING CHOKER ASHRAE NB/PEI CHAPTER

June 2024

[Table of Contents](#)

Chapter Announcements

1. Past Presidents Night!

For our final meeting of the year we would like to invite you all to Past Presidents Night on June 11th! We'll be gathering to recognize our past presidents who have devoted themselves to progressing this chapter and evolving it into what it is today. We will also recognize the current and future presidents who will continue to give their commitment and carry the torch for the years to come.

There will be a presentation on the topic of ASHRAE's Technology Awards which will cover a case study of an award winning building and the requirements to apply for projects that meet the criteria. Registration is FREE for all Past Presidents.

Details to register for the event are in the Monthly Presentation section below.

ASHRAE NB/PEI chapter

2. ASHRAE Golf Tournament (*September 5th*)

Our annual golf tournament will be held this year on Thursday, September 5th. Start assembling your teams and hitting the driving range! There's prizes to be won and good times to be had!

Please visit our EventBrite page for full details. Registration is now OPEN for teams and sponsors. We look forward to seeing you all on the course!

[Golf Tournament Registration](#)

3. A Message from NB Power: NECB 2020 Code Adoption in New Brunswick

A French translation will follow.

In accordance with New Brunswick's Climate Change Action Plan, The Province of New Brunswick is planning on adopting the 2020 edition of the National Building Code of Canada and the National Energy Code of Canada for Buildings, effective January 1st, 2025. In addition, both documents will be adopted at the tier 2 level.

This legislation will be heading to the legislature in the fall session and the actual effective date cannot be guaranteed until approved. However, we felt it was important to provide advance notice to the members of your association in order to ensure the proper code is referenced when completing design work ahead of this transition.

French

Conformément au Plan d'action du Nouveau-Brunswick sur les changements climatiques, la province du Nouveau-Brunswick prévoit adopter l'édition 2020 du Code national du bâtiment du Canada et du Code national de l'énergie du Canada pour les bâtiments, pour le 1er janvier 2025. De plus, les deux documents seront adoptés au niveau 2.

Ce projet de loi sera adopté à l'Assemblée législative à la session d'automne et la date d'entrée en vigueur réelle ne peut être garantie tant qu'elle n'a pas été approuvée. En tout cas, nous avons pensé qu'il était important de fournir un préavis aux membres de votre association afin de s'assurer que le code approprié est référencé en des travaux de conception avant cette transition.

4. Carpooling to Meetings

We've been delighted to see the participation from our student members at our meetings this year (shout out NBCC Saint John!). We know it can be challenging to coordinate travelling to Moncton for these events, but we want to help out those in need with carpooling. If you are interested in carpooling, or if you would like to volunteer as a driver please reach out to us and we will do our best to make the connections!

Please reach out to either our Student Activities Chair, John Willden (johnwillden@gmail.com), or to our general inquiry email (contact.ashraenbpei@gmail.com). We look forward to seeing more of you!

5. Lucy's Engineering Adventure (Fundraiser)

As first announced in the May 2023 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 treasurerashraenpei@gmail.com, or by mail to the following address:

ASHRAE NB/PEI CHAPTER

P.O. Box 1629

Moncton New Brunswick

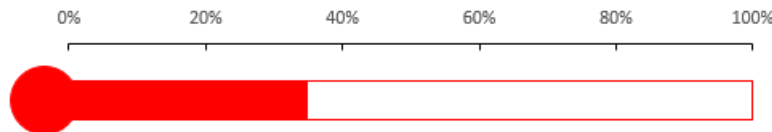
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*Please note on the envelope "Lucy's Engineering Adventure" somewhere on the mailed donation.

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

*April 2nd, 2024 Update: We have raised **\$870 / \$2,500**

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



6. 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

7. 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

June 11th, 5:00PM - 8:00PM AST

TOPIC: Case Study on an ASHRAE Technology Award Winning Project

As Montreal's first major office building since 2000, the Tour Aimia/Altoría mixed-use complex was a monumental achievement. Located in the heart of downtown Montreal, on the north side of historic Victoria Square, AIMIA Tower seamlessly integrates 5 underground storeys of parking garage, 230,000 square feet of office space on the bottom 10 floors, and 158 condos on the top 25 storeys.

When constructed, the project had 3 LEED certification projects going on simultaneously - one for the office component as Core & Shell Gold, one for the condo tower as New Construction Silver, and for the major tenant as Commercial Interiors Silver.

The case study will explore the project challenges (dirt!), as well as how it successfully joined the 3 components into a comprehensive mechanical solution that shares energy between the various stakeholders. The project won first place at the ASHRAE Technology Awards at the chapter and regional level, and received an honourable mention at the society level, and earned a cover story on the ASHRAE Journal.

Following the presentation of the case study, there will be a discussion on the ASHRAE Technology Awards, including the types of projects that can apply for an award, and a quick presentation/walkthrough of the documentation required.

Recommended audience: Engineers, Contractors, Manufacturer Reps,
Students, Building Owners

About the Presenter:**Daniel Bourque, P.Eng – Senior Mechanical Engineer - PMC Energy**

Daniel Bourque is a senior mechanical engineer at PMC Energy. He has accumulated over 21 years of HVAC experience, with 15+ years participating in the design-build mechanical industry and 5+ years in the MEP consulting world. He is generally involved at all stages of a project, from defining scope, outlining mechanical concepts, design, estimation, simulation, controls and commissioning. For AIMIA Tower, he did all that and more (including filling out the ASHRAE Technology Award application).

Dan is also an active member of ASHRAE having been the president of the Halifax Chapter from 2022-2024 and now becoming the Chair of the Society Communications Committee for 2024-2025.

**Event Details:****When:**

June 11th, 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

Past Presidents (Includes 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, June 7th

[Click Here to Register](#)



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Research Promotion

Knowledge is Power

Content in progress... Check back next month!



Recap of Past Events

In Case You Missed It...

MEET Show 2024

"The 2024 **MEET (Mechanical Electrical Electronic Technology) Show** made its biennial return last week. **May 1st and 2nd**, the Moncton Coliseum hosted the regions largest trade event and welcomed a record-breaking number of **6,626** qualified industry professionals from both the mechanical and electrical industries. This year's event featured a **SOLD OUT** show floor spanning across the entire complex."

You can visit the [MEET Show website](#) to read more about the event.

Save the date in your calendar for the next MEET show that will be taking place on May 6-7, 2026. We look forward to seeing you all there!

Donor Recognition Awards

We started our April meeting by recognizing our top Chapter donors. Pictured below, from top left to bottom right, accepting the awards on behalf of their company are: Phil L'Anglais (CBCL), Michael McCabe (Englobe), Dan Boudreau (MCW), Doug Matheson (MCA). And featuring the Chapter's own Matthew Peachman handing out the awards.





Refrigerant Update

On April 9th, we had an insightful presentation on the latest refrigerant updates. The session began with a brief history of refrigerants, introduced the upcoming transition to A2L refrigerants, and concluded with the necessary changes for using A2L refrigerants in commercial applications.

We are in the midst of transitioning away from refrigerants with high Global Warming Potential (GWP). Low and medium pressure refrigerants have already been successfully phased out. The remaining challenge is high-pressure refrigerants such as R-410A. The goal is to replace these with refrigerants that have a GWP of less than 700 (for reference, CO₂ has a GWP of 1). This phasedown is scheduled to occur by January 1, 2025, with an extension for VRF (Variable Refrigerant Flow) systems until January 1, 2026.

Two primary options for next-generation low GWP refrigerants are R-32 and R-454B. To illustrate the reduction in GWP:

- **R-410A:** GWP of 2088
- **R-32:** GWP of 675
- **R-454B:** GWP of 466

Although these new refrigerants offer a significant reduction in GWP, they come with a trade-off. These refrigerants are classified as A2L, indicating low flammability potential. This new flammability class was specifically created by ASHRAE for these refrigerants. While they are flammable, they require high sustained heat to ignite and have slow burn rates once ignited.

The A2L designation will affect commercial installations by necessitating refrigerant detection systems (RDS) in areas where high concentrations of A2L refrigerants could accumulate. These systems may use isolation shut-off valves to close off circuits upon detecting refrigerant leaks or activate exhaust fans to purge rooms where leaks have occurred. For detailed information on the application implications of A2L refrigerants, please refer to ASHRAE Standard 15 and CSA B52-2023 (released in December 2023).

While these changes may seem challenging at first, it's reassuring to know that we are all in this together. This transition will bring new challenges but also

drive technological innovation and advance sustainability efforts.

Brandon Cosman, Communications Chair, 2023-2024

Brandon.Cosman@PMCEnergy.ca



Upcoming Events

The Future is Bright

ASHRAE Golf Tournament

September 5th, 2024

We'll be hosting our annual golf tournament this year on Thursday, September 5th. It will be taking place at the Moncton Golf and Country club with dinner being served afterwards at the Elk Club for the classic lobster and steak meal you won't want to miss.

[ASHRAE Golf Tournament Registration](#)

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

1.A Life Cycle Analysis for More Sustainable Buildings

NB Power is offering the opportunity to participate in a one-day session on Life Cycle Analysis, as embodied carbon is an important topic in today's construction industry.

Funded by the Codes Acceleration Fund for the province, New Brunswickers can register for free.

The session will be held online on June 5 in French and June 12 in English. The course is prepared and delivered by [ETS](#). Seats are limited.

Find details and register here:

- [June 5 - in French](#)

- [June 12 – in English](#)

1.B Analyse du cycle de vie pour construire des bâtiments plus durables

Énergie NB offre la possibilité de participer à une formation d'une journée sur l'analyse du cycle de vie, le carbone intrinsèque étant un sujet important dans l'industrie de la construction d'aujourd'hui.

Subventionnée par le Fonds d'accélération des codes pour la province, les Néo-Brunswickois-es peuvent s'inscrire gratuitement.

La session aura lieu en ligne le 5 juin en français et le 12 juin en anglais. Le cours est préparé et livré par [ETS](#). Les places sont limitées.

Pour plus de détails et pour vous inscrire, cliquez ici :

- [Le 5 juin – en français](#)
- [Le 12 juin – en anglais](#)

2. Other NB Power Events

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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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>Black & McDonald</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>AEM <i>Advanced Energy Management Ltd.</i> <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> <p>ALERTON AUTHORIZED DEALER</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!



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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.**



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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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