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THE HERRING CHOKER ASHRAE NB/PEI CHAPTER

September 2024

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Chapter Announcements

1. Presidential Welcome Message for Society Year 2024-2025

Dear Chapter Members,

Another successful society year has come and gone! I would like to thank all the 2023-2024 executive board for putting together a great year.

I would like to also thank the Chapter Members for attending our Social Events, Regular Monthly Meetings, and being great participating members.

This year we have a great lineup of topics and speakers to deliver another great program lineup. Should any members wish to hear a specific topic in our monthly meetings feel free to reach out to anyone on the board and we will do our best to find a speaker to deliver on that topic.

Thank you once again for being ASHRAE Members and continuing to contribute to our wonderful chapter!

Sincerely,

Mike Boudreau, Chapter President, 2024-2025

2. The Province of NB is Looking for Volunteers!

The Province of New Brunswick is interested in adopting a province-wide alternative solution to the building code to allow the 2023 version of CSA B52 with regards to *phasing in of A2L Refrigerants*. There is an open call for mechanical designers and contractors to volunteer and sit on the review board of this solution to ensure all perspectives are being taken into account in the process.

The time commitment would be approximately 3-4 one-hour virtual meetings with no expectation of work outside of the meetings.

If you are interested in volunteering and lending your experience on this subject, please reach out to Contact.AshraeNBPEI@gmail.com and provide a brief overview of your experience with CSA B52 and A2L refrigerants.

3. 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!

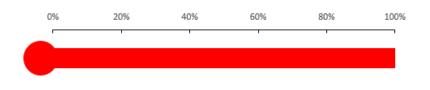
4. Lucy's Engineering Adventure (Fundraiser)

We are thrilled to announce that we have met our goal for our Lucy's Engineering Adventure fundraiser!

Thanks to the generosity of our members and a contribution from the Chapter, we are thrilled to deliver 140 books to K-5 schools in the Anglophone district across NB and PEI! Our volunteers will be delivering these soon, with the hope of sparking curiosity in STEM among today's students and inspiring them to design and build the structures of tomorrow.

Since the start of this fundraiser, *Lucy's Engineering Adventure* has been published in French, and as a future initiative, we plan to provide this version to all Francophone schools. Stay tuned for more updates!

*September 18th, 2024 Update: We have raised \$2,500 / \$2,500



5. 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

6. 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

October 1st, 5:00PM - 8:00PM AST

TOPIC: High Induction Ventilation

Join us for an insightful presentation at the October meeting, where we will delve into advanced concepts of high-induction duct diffusers and their practical applications, as exemplified by NAD Klima's cutting-edge solutions.

Our focus will be on demonstrating the efficiency of high-induction diffusers through a mixed experimental-numerical approach, highlighting their superior performance in energy consumption and ventilation effectiveness compared to traditional methods. By benchmarking five RANS models, we identified the most accurate turbulence model for assessing high-induction diffuser's comfort parameters, leading to an up to 18.4% reduction in airflow requirements and energy consumption.

Additionally, we will explore how different perforations on the duct surface can significantly heighten airborne infection control, achieving up to a 30% reduction in the residence time of infectious nuclei. Our adherence to ASHRAE standards, including ASHRAE 62.1 and 129, underscores our commitment to delivering high induction solutions and optimized Ez values.

This presentation will offer a detailed analysis of how innovative diffuser designs and compliance with industry standards can drive improvements in both comfort and efficiency.

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

About the Presenter:

Peyman Raphe, PhD - Product Specialist - Master Group

Peyman Raphe, PhD, is a highly skilled professional in the field of Heating, Ventilation, and Air Conditioning (HVAC) with a specialized focus on numerical simulations and computational fluid dynamics (CFD). He has carved a niche for himself in the areas of automotive ventilation and personalized ventilation (PV) systems, where his extensive knowledge of 3D CFD simulations enables him to design and optimize advanced HVAC systems for a variety of environments.

Currently serving as a **Product Specialist** in the HVAC industry (*The Master Group*), Peyman brings a unique blend of technical expertise and practical experience to his role, particularly in promoting cutting-edge ventilation solutions such as NAD Klima's high-efficiency systems. His ability to communicate complex engineering principles in an accessible way makes him a valuable resource for engineers and sales teams alike, especially in the

context of enhancing energy efficiency and ensuring comfort in occupied spaces.

In addition to his role as a product specialist, Peyman is involved in **training** and mentoring sales teams and engineers on how to effectively implement and promote innovative HVAC solutions. He has been instrumental in developing and delivering specialized training programs designed to turn sales teams into ventilation experts, emphasizing the importance of **ASHRAE** standards and building codes in ventilation design. His work in this area is helping to shape the future of HVAC sales by shifting the approach from a product-centric model to one where sales professionals are seen as trusted engineering resources.

Peyman's **academic background** includes a PhD, which further solidifies his expertise in both the theoretical and practical aspects of HVAC design. His research has contributed to advancements in the understanding of airflow dynamics, which in turn informs his work in developing efficient ventilation solutions that reduce energy consumption while maximizing comfort.

In his current role, Peyman continues to be a key figure in promoting the benefits of NAD Klima's innovative systems. His work is not only helping companies meet today's stringent energy efficiency requirements but also setting the stage for the future of HVAC technology. Outside of his professional life, Peyman is passionate about **sustainability** and ensuring that modern HVAC systems contribute to both environmental responsibility and human wellbeing. His contributions to the field of ventilation are driven by a commitment to excellence, innovation, and continuous learning.



Event Details:

When:

October 1st. 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!

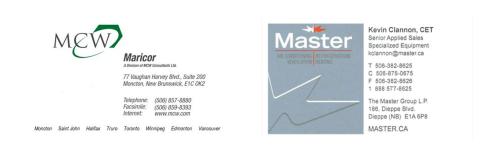
Meal:

The meal will be Chef's Choice Buffet.

*Please indicate any dietary restrictions when registering

Please RSVP through EventBrite by 4pm on Friday, September 27th

Click Here to Register



Student Activities

Knowledge is Power

Lucy's Engineering Adventure Update

The board has decided to top up Lucy's Engineering Adventure so the distribution will happen in October. We are gathering contact information from the District Education Councils and asking for volunteers to deliver the

books. We include Prince Edward Island in this STEM promotion.

The French version is just coming out now and will be handed out as they arrive.

Student Branches

We are contacting UNB, UdeM, NBCC Moncton, NBCC Fredericton and NBCC Saint John to arrange for student branch advisors(SBA's). We prefer to have faculty involved (Faculty Advisors) but local members are also encouraged if a faculty advisor cannot be recruited. Student branch activities are a great way for students to organize tours, attend monthly technical presentations and network with local businesses.

Membership for Students

Student members get sponsored by our chapter so membership is free for the first year. If a student continues their membership after graduation they get a huge discount on membership through the Smart Start Program.

Scholarships

There are also scholarships available to student members. Our chapter (NBPEI) has scholarships available in the schools that teach HVAC and related subjects. There are also large scholarships available through ASHRAE Society. There are activities like design competitions that may result in the winner(s) getting a trip to the Annual Winter Conference in Florida this year.

Student Benefits

Student members get a monthly journal that has articles on projects like solar energy, thermal storage, building control systems and retrofitting HVAC systems. Students also get access to the archives of these articles. Student members often get a special technical presentation when we have distinguished lecturers come to our meetings. Student members can mix with their future employers and vice versa. Our membership includes designers, contractors, and equipment suppliers so there is something for everyone in the HVAC world.

Our next presentation is on high mixing diffusers on October 1st. Come on down, your first visit includes a free supper.

John Willden Student Activities Chair, 2024-2025





Recap of Past Events

In Case You Missed It...

Annual 2024 Golf Tournament

Two weeks ago on September 5th, we hosted our annual golf tournament, and it was one for the books! With beautiful weather and a record turnout of 25 teams and 16 sponsors, the event was a great success. Everyone enjoyed a fun day of golf, camaraderie, and friendly competition.

We're proud to recognize the winners of this year's tournament:

- Best Team: MCA Team: Steve Ramsay, Curtis Hall, Lara Mullally, Paul Tatlock
- Longest Drive (Men's): Curtis Hall
- Longest Drive (Women's): Lara Mullally
- Closest to the Pin (Men's): Zach Thorne
- Closest to the Pin (Women's): Natasha Barna

After the final round, we wrapped up the day with our classic lobster and steak dinner at the Elks Club, where participants and guests relaxed, exchanged golf tips, and enjoyed a wonderful evening together.

A big thank you to all the participants, volunteers, and sponsors (pictured below) for making this year's tournament such a memorable event. We're already looking forward to next year!

ASHRAE NB/PEI Chapter

























Upcoming Events

The Future is Bright

NB Power Sponsored Training Opportunities

1. Navigating NECB Compliance Tiers: Insulation and Airtightness for Optimal Energy Performance

Delivered through Passive House Canada, we're pleased to offer seminars on the building envelope, thermal bridging, and air tightness. Strengthen your knowledge of the National Energy Code of Canada for Buildings 2020 (NECB) while learning from Passive House Canada's expertise on high performance building envelopes.

Course topics include:

- Overview of the objective of the National Energy Code of Canada for Buildings 2020 (NECB) and building energy performance compliance tiers
- Building science and energy use, including the transfer of heat and air through materials, components, and assemblies of the building envelope
- Overview of energy efficiency building design principles
- Thermal bridging principles, NECB requirements, and elimination of thermal bridges through better design and construction
- In-depth look at insulation and airtightness design and construction techniques
- Window placement and construction, window components and efficiency.

This training is funded by the Government of Canada Codes Acceleration Fund. Seats are **FREE** for New Brunswick residents with the discount code **NBPOWER100%**.

Full-day sessions are tailored for the architectural and engineering design community while the half-day sessions are customized for tradespeople, site supervisors and general contractors.

Register now via these links.

In-person French sessions:

<u>Sep 19, 2024 (full-day, designer) - in Bathurst at the Atlantic Host</u> <u>Sep 20, 2024 (half-day, tradesperson) - in Bathurst at the Atlantic Host</u>

In-person English sessions:

Oct 25, 2024 (full-day, designer) – in Moncton (register via Architects' Association NB)

Oct 28, 2024 (half-day, tradesperson) – in Moncton at the Four Points
Oct 29, 2024 (full-day, designer) – in Fredericton at the Wu Centre
Oct 30, 2024 (half-day, tradesperson) – in Fredericton at the Wu Centre

Seats are limited – please let us know two weeks in advance if you have registered but can no longer attend. Email NCCI@nbpower.com for more information.

2. Carbon Footprint Accounting: Scope 1 and 2 GHG Emissions

This training is funded by the Government of Canada Codes Acceleration Fund, organized by NB Power's energy efficiency team, and provided by CIET.

Gain practical skills to develop accurate greenhouse gas (GHG) inventories and implement effective decarbonization plans. Learn how to quantify GHG emissions, design and develop Scope 1 and Scope 2 inventories, interpret results to set emission reduction targets, and make high-quality reporting in compliance with international standards.

This training is ideal for sustainability managers, planners, accountants, energy managers, consultants, and other professionals committed to sustainable development.

New Brunswick residents can register for FREE using the code CFA100.

Training Details and Registration Links

In-person English course: <u>Tue, Oct 8 and Wed, Oct 9 at 9:00am-4:30pm in Moncton</u>

Virtual French course: <u>Tue, Oct 15 and Wed, Oct 16 at 9:00am-4:30pm</u>

Seats are limited – please let us know two weeks in advance if you have registered but can no longer attend. Email MCCL@nbpower.com for more information.

For a full list of upcoming learning opportunities, visit us online.

3. Other NB Power Events

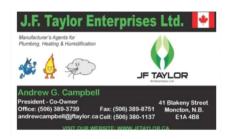
For a full list of NB Power offerings and to keep current on their upcoming events please visit the following link:

NB Power Events and Training









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 <u>Technology Awards Program (ashrae.org)</u> 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.



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!



2024-2025 Chapter Schedule

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

2024-2025 ASHRAE NB/PEI PROGRAM

Date	Topic	Presenter	<u>Theme</u>	Venue
September 10th, 2024	Tour - B&M	Eric Leblanc / Fred Bernard	Decarbonization	Legends Moncton Coliseum
October 1st, 2024	High Induction Diffusers	TBD	Student Night	Legends Moncton Coliseum
November 6th, 2024	Code Accelerator Fund	NB Power / GNB	Government Affairs	Legends Moncton Coliseum
December 10th, 2024	TBD	TBD	TBD	Legends Moncton Coliseum
January 14th, 2025	Thermal Insulators	Int'l Association of Heat & Frost Insulators	TBD	Legends Moncton Coliseum
February 11th, 2025	TBD	TBD	TBD	Legends Moncton Coliseum
March 11th, 2025	TBD	TBD	TBD	Legends Moncton Coliseum
April 8th, 2025	TBD	TBD	TBD	Legends Moncton Coliseum
May 13th, 2025	TBD	TBD	TBD	Moncton Coliseum
June 10th, 2025	TBD	TBD	TBD	TBD

*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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Mike Boudreau, P.Tech, GSC Director of Construction T: 506-862-0810 Ext.112 C: 506-233-4260



2024-2025 Board of Governors

The Knights of the Roundtable

Role	2024 - 2025 Executive/BOG	
President	Mike Boudreau	Executive
President Elect	Roch Couturier	Executive
Vice President		Executive
Research Promotion Chair	Kevin Clannon	Executive
Treasurer	Dan Boudreau	Executive
Secretary	Ryan Butler	Executive
Membership Promotion Chair	Matthew Peachman	BOG
Student Activities Chair	John Willden	BOG
Historian	Ken Martin	BOG
Chapter Technology Transfer Chair	Kelsey Edgecombe	BOG
Newsletter Editor	Brandon Cosman	BOG
Communications Chair	Brandon Cosman	BOG
Grassroots Government Affairs	Roch Couturier	BOG
YEA Chairs	Zach Thorne	BOG
Refrigeration		BOG
Golf Tournament Chair	Ken Martin, Justin Cosman	BOG
Webmaster	Brandon Cosman	BOG
CRC 2026 Chair	Dan Boudreau	BOG
BOG	Kevin Leger	BOG
BOG	Devin Harinarine	BOG
BOG	Phil Duncan	BOG

Questions, comments, good HVAC jokes?

ASHRAE NB PEI - Contact Us







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