



NorthEastAire

Volume LVII, Issue No. 6

January 29, 2025

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February Meeting

Tuesday, February 4, 2025

Tech Session:

ASHRAE 62.1 IAQP

Meeting Topic:

Airside Energy Recovery in Cold Climates

Where:

Embassy Suites—Waltham
550 Winter St.
Waltham, MA 02451

Schedule of Events:

Networking: 5:00PM-5:30PM

Tech Session: 5:30PM-6:30PM

Dinner: 6:30PM-7:00PM

Presentation: 7:00PM-8:00PM

Cost:

Members—\$50

Non Members—\$60

Student Members w/ RSVP—Free

Register: ashraeboston.org



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BOSTON CHAPTER OFFICERS 2024-2025



President's Message

In January we had another interesting and informative technical program. Thanks to Ali Rifai of Siemens and Avish Bhalani for their presentations about control systems and the four poster presenters during our social hour.

This month's meeting will be a panel discussion about heat recovery moderated by another of our chapter volunteers, Ben Pignatelli of Energy Solutions. Ben is our Government Affairs chair. The panelists are Allison Guttadauro of APA and Mark LaFrance of HTS.



Lance Brown, President

Many of you reading this newsletter have heard from Bob Persechini, who has done an outstanding job encouraging our members and their organizations to sponsor the chapter. Bob sees the value to this chapter and ASHRAE research of having a robust sponsor base. At press time our list of sponsors isn't final because our sponsors drive registration is open until February 1st. If you're reading this before then, it's not too late!

This month's newsletter is going out slightly ahead of our usual schedule. Our meeting is a week earlier than usual to avoid overlap with the ASHRAE Winter Conference in Orlando. For those of you going to the conference, note that there is a regional dinner on Sunday February 9; this year our Region 1 is teaming up with Regions III, VII, and XI. I'm signed up, and I hope to see some of you there.

Lance Brown

Boston Chapter President

president@ashraeboston.org



Government Affairs Headlines

Ben Pignatelli—Government Affairs Committee Chair

Below are a few stories on possible impacts of the new federal administration with respect to imported hydroelectric from Canada and offshore wind. Both technologies are developing sources of long-term "carbon-free" electricity to New England aimed at diversifying our grid.

Separately, the Massachusetts Department of Public Utilities (DPU) will soon be issuing an Order on [the next Mass Save® Three-Year Plan](#) which will include a \$5 Billion investment that will exclude nearly all natural gas equipment. The plan supports "thoughtful electrification" with cold climate heat pumps in residential and commercial applications.

[How Trump's tariffs could hit Massachusetts electric bills](#)

According to Healey's office, about 5% to 10% of electricity consumed in New England is imported from Canada — primarily hydropower from Quebec. If that gets hit by Trump's tariffs, Massachusetts, a state already grappling with high energy costs, could see an increase estimated between \$100 million and \$200 million. (New England as a whole would see its electricity bill rise by \$200 million to \$320 million in most years, state officials said.) January 24, 2025. Nik DeCosta-Klipa.

[Trump's pause on offshore wind leasing may have limited impact in New England](#)

Many of those projects are under construction or already operational. They include [Vineyard Wind](#) and [New England Wind](#), which will provide power to Massachusetts, as well as several projects providing power to other Northeast states. January 23, 2025. Miriam Wasser. [Another article](#) on a similar topic.

February Meeting

Tech Session: ASHRAE 62.1 IAQP – Presented by Tim Boyd from GPS Air

ASHRAE 62.1's Indoor Air Quality Procedure (IAQP) is a performance-based approach to achieving acceptable indoor air quality while reducing energy consumption and operational costs. This session, led by Tim Boyd from GPS Air, will provide a detailed overview of IAQP, including its application, supporting ASHRAE research, and design considerations.

Participants will gain a deeper understanding of:

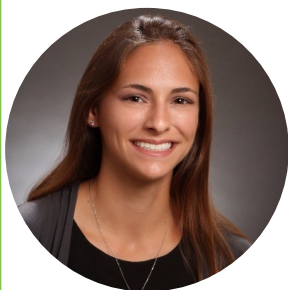
- The Indoor Air Quality Procedure as outlined in ASHRAE 62.1-2019 and 62.1-2022
- ASHRAE's tools and research supporting IAQP implementation
- Design methodologies incorporating IAQP and applied air-cleaning equipment ratings
- The impact of IAQP on energy efficiency and ventilation effectiveness
- How IAQP aligns with LEED v5 and recent updates to state building codes

With the growing emphasis on indoor air quality in building codes and sustainability frameworks, this session will provide valuable insight into ASHRAE's position on IAQP as a preferred design approach.

Main Presentation: Airside Energy Recovery in Cold Climates

Energy recovery is an important engineering process needed to help meet advanced energy codes, reduce operating costs, and support advanced HVAC projects. Join the Chapter for a panel discussion about what airside energy recovery systems we are seeing in cold climates today, including benefits, drawbacks, and capabilities, of technology approaches.

Mark LaFrance is a Principal at HTS New England, overseeing business operations and leading the HTS Engineering group that provides equipment design support for Consulting Engineers. Mark's passion for Engineering led him to pursue and obtain a BS in Mechanical Engineering from the University of New Hampshire, which led him to his first industry role as a Design Engineer and Test Engineer in the renewable energy industry. Mark joined HTS in 2012, where he worked with Engineers, Contractors, and Owners, seeing the complete cycle of HVAC equipment application from design to operation. Mark enjoys exploring and qualifying new equipment technologies to bring to the market through HTS. He brings strong attention to detail, upbeat energy, new ideas, and big-picture goals to his role as an HTS New England Principal.



Allison Guttadauro has been a technical sales engineer in the HVAC industry for almost ten years. Allison has a Bachelor of Science in Mechanical Engineering from the University of Maryland. As a manufacturer's representative she works with engineers, contractors, and owners to select and specify the right equipment for each application. Allison has a passion for conservation, sustainability, and environmentally conscious projects, products, and designs.

As the Massachusetts codes for energy recovery have evolved and become increasingly difficult to meet, Allison has kept up with the changes to remain a technical resource for her customers. The manufacturers of energy recovery devices are making products for all North America and sometimes further. The Massachusetts specific codes often present tough challenges when working with manufacturers who design their products to meet the needs of the masses, rather than the needs of Massachusetts. Allison is part of the Engineered Product Support Group for APA HVAC Technologies where she helps come up with solutions for the complex projects that Massachusetts engineers are designing to help build a more sustainable future.

Presidential Award of Excellence



Boston Chapter - 2024-2025

Chapter Members	Membership Promotion Points	Student Activities Points	Research Promotion Points	History Points	Chapter Operations Points	Chapter Technology Transfer Points	Government Affairs Points	Electronic Communications Points	YEA Points
<u>982</u>	<u>1050</u>	<u>510</u>	<u>350</u>	<u>242</u>	<u>1010</u>	<u>2500</u>	<u>800</u>	<u>280</u>	<u>1450</u>



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Golf Update

Matt Hallock—Golf Outing Chair

Please be on the lookout for information on signing up for the golf tournament this year. We are waiting for our yearly sponsors to finish signing up, so we can solidify the final number of spots. If you want to guarantee your company a spot in the golf tournament, you should reach out to our sponsorship chair for a yearly sponsor. The golf tournament will be on May 12th, at Pinehills, and we are expecting another sellout crowd. More emails will be coming to your inbox through February about specific signup details, so please be on the lookout. If there are any questions, please reach out to Matt @ mhallock@apav.com.

Battle Rankings

Membership Battle Update - These employers have had the most new members join since September 10th.



FIRST



Massachusetts Institute of Technology



Shaping Tomorrow's Built Environment Today



YEA Update



Matt Hallock—YEA Committee Chair

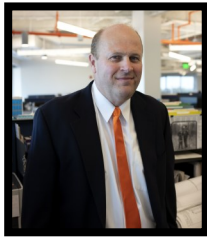
We are adding a new event to the slate this year for the YEA group...

WE ARE GOING BOWLING!

On February 27th ASHRAE YEA will be hosting a bowling event at America Flatbread Brighton. We will be there from 6pm-8:30pm with a private room, a couple of lanes to test our skills and plenty of food to go around. The cost of the event will be \$30 per person with a maximum number of attendees at 50 people. There will be an invite going out next week, so please be on the lookout. ASHRAE YEA focuses on the demographics of members and their coworkers that are 35 years of age or younger to create a strong bond of the next generation of members. We share stories but the good and not so good events that come up, as we create our own legacies in the field of HVAC. We always have a great time at these events and encourage members to share this with non-members to bring them along as well. If there are any questions, please reach out to Matt @ mhallock@apav.com.

Historical Special Feature

Eric Edman—Historical Committee Member



Eric Edman

This month we celebrate Black history month, which will be followed next month by Women’s history month. As such, our History Feature will focus on an industry pioneer in HVAC/R. (Don’t forget about the /R!)

This month we are going to focus on a black man who has gone by the “King of Ice”, who has been one of those notable industry pioneers: Mr. Fred Jones (1893-1961). (Note: There is a Bostonian who is sometimes called the “Ice king” who sold harvested ice abroad...he did not make the ice. You can reference Oct 2020 History article.)

Fred Jones was born to a black father and white mother in 1893 in Kentucky. His mother left the family when he was 4, and his single father struggled to raise him as a child. His father was killed in a work-related railroad accident, and he found himself on his own at 14 years of age. Luckily with the assistance of his church, Fred put himself through school and joined the military. He served during WWI in an all-black unit with the US Army (Transportation) and quickly rose to rank of Sargeant with his talents. Besides working on trucks, he helped to electrify some of the front-line medical facilities. In this position (trucking food), he saw firsthand how spoiled food and medicine affected everyone. Returning to the US, he began to focus on refrigeration. The wheels in his mind at work...



Werner Trucking & Thermo King are still in business today

Now turn back the clock and think about food transport. In the hot summer months, food perished and spoiled quickly if left out. That was not very good for business and just a plain waste of food. Fred Jones saw this as a great opportunity. In 1938, Jones developed the very first portable air-conditioning system designed for food transportation trucks. He made all this from junkyard scraps to boot. That same year, Jones and a colleague named Joseph Numero co-founded Thermo King, a transportation refrigeration manufacturer still successfully operating today. Mr. Jones was granted a patent for the truck refrigeration unit in July 1940. In 1944, Jones became the first African American member of ASRE, forefather to ASHRAE.

Originally designed to keep chicken from spoiling on long drives from farm to market, Jones’ truck refrigeration unit evolved to develop portable cooling units used to preserve medical supplies and food for the military during World War II. Talk about contributions to the war effort... This one thing alone (unspoiled medicine) saved a lot of lives. These systems continued to be optimized for widespread commercial use. Jones’s innovation makes something as simple as picking up milk from the grocery store possible for all of us.

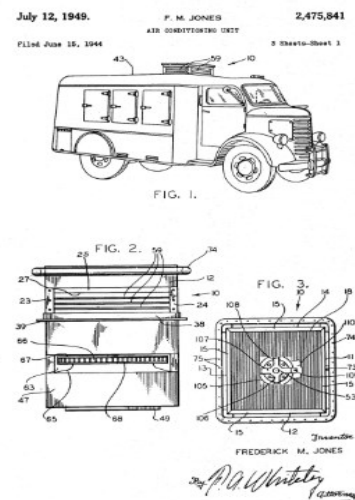
Besides truck refrigeration, Jones made his mark on many other industries. For example, he revolutionized the cinema industry by creating a device that allowed movie projectors to play recorded sound, taking movies from “silent films” to “talking pictures.” The self-taught inventor also created a portable x-ray machine, portable radios, and a prototype of today’s snowmobile.

His claim to fame was his more widely known accomplishments within the world of HVAC and **please** do not ever forget **the R**. It is that R makes a great many things possible. Most of them you probably don’t think about until you don’t have them.

In a special tribute to this great man and his accomplishments- the President of the United States awarded him (posthumously) the National Medal of Technology in 1991. The award was given to his widow and children at a special ceremony at the White House. So the next time you have an ice cream (or hear that sound of the ice cream truck), a cold glass of milk, or medicine to make what ails you better you can thank your lucky stars that men like Mr. Jones never gave up on a dream.

As always, have a wonderful day.

Eric



Fred Jones’ ice cream truck patent (July 1949).

Welcome New Boston Members

We welcome those that joined our
chapter over the last month!

- Thomas Pruell
- Charlie Simek
- Sicheng Zhan
- Edwin Harmon
- Nile Keiller
- Guy Danner
- Zoie Leo
- Erik Jordan
- Matthew Burrows
- SungHwan Lim
- Katherine Polum
- Kyle Cahill

Thank you to our 2024 sponsors. Our corporate sponsorship program helps the chapter meet their research & promotion goals and supports chapter activities. Please reach out to Bob.Persechini@nv5.com if you are interested in sponsoring for 2025.

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EVENTS CALENDAR

Date	Location	Event Information
September 10	Liberty Mutual Boston, MA	Mechanical Tour and Dinner
October 15	Embassy Suites Waltham, MA	Building Envelopes & HVAC Considerations
October 23	SPIN Boston	YEA Event
November 12	DoubleTree Cambridge, MA	Women in Engineering
December 10	Embassy Suites Waltham, MA	IRA for Thermal Storage and Decarbonization
January 14	DoubleTree Cambridge, MA	Building Controls
February 4	Embassy Suites Waltham, MA	Thermal Energy Recovery
March 11	Embassy Suites Waltham, MA	Framingham Ground Source Heat Pump Pilot Project
April 8	DoubleTree Cambridge, MA	Stairway Smoke Pressurization
May 12	Pinehills Golf Club Plymouth, MA	ASHRAE Golf Outing
June 10	TBD	Installation of Officers

*The calendar is subject to changes, please see the [ASHRAE Boston Chapter website](#) for the most up to date information!

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Boston Monthly

YEA Events

Joint Meetings

Special Events

