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October Meeting

Tuesday October 11, 2022

Meeting Topic:

Decarbonizing Existing Buildings

Register [Here](#)

Presenter:

Joe Dussault

Partner at CMTA

Jesse Stallions

System Utility Engineering Manager at
Lahey Health

Where:

Embassy Suites by Hilton Waltham

550 Winter Street
Waltham, MA 02451

Time:

4:00-5:00 BOG Meeting (all are welcome!)

5:30-6:30 Networking

6:30-7:00 Plated Dinner

7:00-8:00 Main Meeting (1 PDH)

Cost:

Members—\$50

Non Members—\$60

ASHRAE Student Members with RSVP—Free

Meeting Manager:

Kiersten Washle

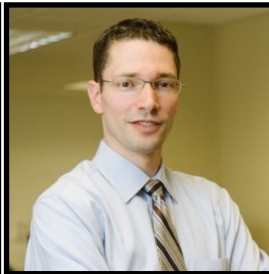
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BOSTON CHAPTER OFFICERS 2022-2023



President's Message

Hi Everyone,

We had a successful September meeting welcoming Mark Fly, ASHRAE Fellow and Distinguished lecturer to our chapter. With over 60 attendees, we had the highest turnout since the start of the pandemic. I would like to thank the efforts put in by chapter volunteers and members in making this possible.

To keep this momentum going, our next meeting will be held on Tuesday, October 11th at Embassy Suites, Waltham. We will be welcoming Joe Dassault and Jesse Stallions to talk about Decarbonization of Existing buildings. The October meeting will also be recognized as our chapters Young Engineers in ASHRAE (YEA) and Diversity in ASHRAE (DiA) night.

The Boston chapter will also be hosting the long-awaited product show on the 2nd of November, we encourage vendors to reach out and book a booth as soon as possible before they sell out. We will be joined by ASHRAE Society Vice-President Sarah Maston and will host multiple technical sessions. Please save the date and reach out to your employers today to ensure you can attend. We hope to make this the largest gathering of Mechanical Engineers and HVAC professionals in the Greater Boston area during 2022.

We are always looking for more members to be involved with the chapter and multiple committees are actively looking for volunteers. Please feel free to reach out to me if you are interested.

For more information visit the ASHRAE Boston website and follow us on LinkedIn. As always, we appreciate your feedback. Please email me at vineet.nair@mail.ashrae.org or any of our volunteers with questions or concerns.

Look forward to seeing everyone the evening of October 11th.

Thank you all,

Vineet Nair

ASHRAE Boston Chapter President 2021-2022



President
Vineet Nair
CRB

Welcome New ASHRAE Boston Members

We welcome those that joined our
chapter this summer!

- Jaime Favara
- Natasha Stamler
- Christopher Murphy
- Daniel Smith
- Austin Phillips
- Jason Soares
- Raymond Lofstrom
- Eric Cummings
- James Girouard
- Charles Liang
- Evan Hancock
- Katie Nugent
- Joshua McLeman
- Jack Lyons
- Oliver Ames
- Adam Jennings
- Sean Durick

October Meeting

Summary

This presentation will cover decarbonizing existing buildings. Using Lahey as an example they will walk through successes and challenges of decarbonizing existing healthcare buildings.

Joe Dussault

Joe brings more than 15 years of experience in the design, commissioning, retro-commissioning and energy analysis of building systems as a mechanical engineer and project manager. He has worked to optimize infrastructure and energy efficiency in campuswide critical areas for multiple facilities nationwide. Joe has served as senior mechanical engineer and project manager for many signature projects. As a seasoned controls engineer and project manager, he provides his mechanical engineering expertise to a wide array of projects, including health care, higher education, laboratories, corporate infrastructure and many others. Projects range from new builds, to renovations, to energy audits, to studies, to assessments and more. Joe treats every project he encounters as a unique challenge and works with the clients and owners to develop an optimal project strategy. In his spare time, he enjoys mentoring young engineers and was part of the founding committee of the Boston Young Engineers of ASHRAE chapter that promoted group activities for young engineers.



Joe Dussault
Partner at CMTA
Mechanical Engineer
PE, CEM, CBCP, LEED AP



Jesse Stallions
System Utility Engineering
Manager at Lahey Health
CEM

Jesse Stallions

Jesse brings more than 18 years of experience in commissioning, retro-commissioning, energy analysis and energy-design build of building systems as a consulting engineer and owner's utility engineer. He has developed and implemented several complex higher-ed, commercial, laboratories and healthcare projects focusing on energy efficiency and infrastructure improvements.

REMINDER

One Week Left to Register for a Booth for the
November 2nd Product Show!
Only 7 Spots Left!

SAVE THE DATE! PRODUCT SHOW 2022!

The Product & Energy Show 2022: Wednesday November 2, 2022

The officers and Board of Directors of the Boston ASHRAE Chapter are pleased to extend an invitation to you and your organization to participate and/or exhibit at the Biennial Product Show which will be held at The Quincy Marriott.

Registration to purchase exhibitor booths has gone live (<https://www.ashraeboston.org/productshowhome>). This show has been well attended in the past, not only by the general ASHRAE membership, but also by others who work in this field, including Facility Engineers, Hospital Engineers, Building Owners, and Mechanical Contractors. The local Product & Energy Show targets a specific audience where you can talk to the customers who matter to you. Admission is free to all attendees.

Additional details for the Product & Energy Show below:

DATE Wednesday November 2, 2022; 3:00 pm to 8:00 pm
Seminars 3:00—4:00 pm
 4:00—5:00 pm
 6:00—7:00 pm Distinguished Lecturer
Product Show 3:00 pm to 8:00 pm
 Appetizers will be provided and there will be a cash bar

LOCATION Marriott Boston Quincy
 1000 Marriott Drive
 Quincy, Massachusetts 02169

NEW LOCATION!

The 2022 Product Show is moving from Lantanas since they have permanently closed. Our new location will be the Quincy Marriott!



Marriott Boston Quincy

EXHIBITOR REGISTRATON

Exhibitors may register for up to 4 booths, each booth is 6' x 8' and costs \$1,100. If indoor booth is purchased, trailer spots are available for outdoor demos and cost \$1,250 for a small trailer spot and \$2,500 for oversized rigs. Reservations will be on a first come, first served basis.

If you have questions regarding registration or specifics about the product show, please reach out to the show chairpersons. Please let us know if you would like members from your organization to be added to our mailing list for future events. Registration is open and will close on October 12, 2022.

BOOTH INFORMATION

- Draped booths will be set up prior to your arrival
- Tables will be available upon your advanced request
- 120V Electricity is available upon your advanced request (no heavy electrical loads permitted)
- Water and drains are not available
- Internet connections are available

FOOD Complimentary appetizers will be available to all attendees and exhibitors of the show

ATTENDEE REGISTRATION

A link for attendees to register will soon be available.

Please look out for emails from ASHRAE in the upcoming weeks!

Additional details including seminar schedule and presentation topics will be available in October.

Thank you for your interest in the Boston ASHRAE Chapter Product Show. If you have questions about the product show please see the [website](#) or reach out to the Product Show Committee Chairs below.

Sincerely, The Product Show Committee

Chair: Amy Gebhardt, agebhardt@emersonswan.com

Co-Chair: Eric Edman, (617) 925-8325, (617) 548-7054, eedman@brplusa.com

Historical News

By: Eric Edman - BR+A

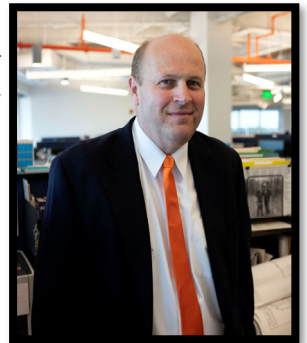
Hello to all of you,

We are off to a really great start for a new season of ASHRAE. The September meeting had the largest crowd in attendance for years and it was so nice to see new faces -and familiar faces. We are on track to meet our historical goals with society in our region. One could say all things are going along very well.

We had a raffle at the September monthly meeting!! Our famous 50/50 raffle raised some big bucks for ASHRAE Research and after we drew the lucky ticket, the winner donated his winnings to ASHRAE... That was not surprising to me as that is exactly the type of people ASHRAE members are. Big hearted and giving.

We do look forward to seeing you at our October meeting, and shortly thereafter at our Product Show on November 2 at the Quincy Marriott.

Until then... all my best,
Eric
c001his@ashrae.org



Eric Edman
Historian

YEA Update

Welcome back to the start of a new ASHRAE year, as we are off and running with the first meeting already passing us by. I see there are a lot of new members that joined over the summer that fall into the YEA category and we are happy to have you. Be on the lookout for the upcoming events that YEA will be putting on this year. We like to have some fun and mix in some industry learning along the way. ASHRAE globally also hosts some very cool events that are open to YEA members. From November 4-6, 2022 there is a YEA Leadership Weekend in Vancouver, Canada. If you are interested in going, please take a look [HERE](#).



Please contact Matt Hallock at matt@trumbullcampbell.com or Mary Kandaras at Mary.Kandaras@BuroHappold.com if you have any questions or suggestions about this upcoming year.

Presidential Award of Excellence



Boston Chapter - 2022-2023

Chapter Members	Membership Promotion Points (1600)	Student Activities Points (800)	Research Promotion Points (1050)	History Points (300)	Chapter Operations Points (1200)	Chapter Technology Transfer Points (1050)	Government Affairs Points (1000)	Electronic Communications Points (700)	YEA Points (900)
<u>1002</u>	<u>2775</u>	<u>290</u>	-	<u>245</u>	<u>80</u>	-	-	-	<u>1075</u>

History Special Feature

Eric Edman

If any of you enjoy fresh oranges or, like me, a cold beer, chances are you probably take for granted the “R” in HVAC... What??? HVAC does not have an “R” in it. Well, it really does but it would make it much harder to pronounce. The “R” is for refrigeration and is somewhat of an art form. It is somewhat an elusive item that not many engineers know much about. Most notes on drawings testify to this when I see notes read, “refrigerant piping sized by manufacturer and provided by the contractor.” For a select few who studied refrigeration, this irks them. I have heard from many builders, “why can you not size the pipes?” That can be a story for another day.

This monthly special feature is a flashback to our roots of refrigeration. Most of you have purchased ice for the cooler for a trip to the beach so you could enjoy a cold beverage. It would come as no surprise, that early refrigerated transport was ice-cooled. Giant chunks of ice were cut from lakes, ponds, and rivers. These were hauled, stored, and then used sometimes thousands of miles away. You can read some past special features from your favorite historian on the ice king (William Tudor) if you need a refresher. I do not know about you, but the manual process of hauling a ton of ice for 12,000 BTUs of cooling is hard work. No wonder some smart folks thought there had to be an easier way.

Usher in the industrial age, the mid-1800s, when inventors could invent just about anything, make a product, proclaiming it the world's best, and sell it to the masses. It worked great but, think you can see where the consumer safety product commission got its roots from. Yes indeed, things did not often work as advertised. Certainly, none of this sounds familiar today.

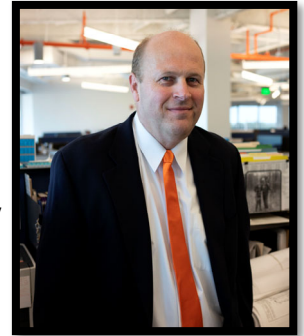
Going back to refrigeration. Hauling ice around and delivering it, and even using ice on rail cars, was a pain in you know what. Talk about labor intensive. Early efforts at mechanical refrigeration go back to the father of air conditioning (Dr. Gorrie). You can read a past special feature on that as well. It was the hauling around of ice that made things difficult for him to succeed. Most of you are aware that it was the railroads that helped build this country. Long before interstates existed- there were railroads, and boats and both could move large heavy items great distances for very little energy input.

The mechanically refrigerated box car king is hard to pin down to just one person. That was the original goal I set out to look for. Several people and companies joined forces at times. Here is a brief snip of the timeline leading up to the first real patent for mechanically refrigerated railcars.

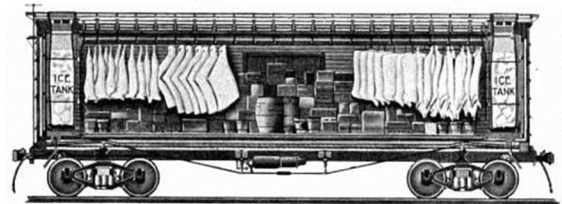
- 1842: The Western Railroad of Massachusetts experimented with innovative freight car designs capable of carrying all types of perishable goods without spoilage. FYI- Massachusetts was home to the first railroad actually put into service in the United States. The Granite Railway opened 3 miles in 1826. The purpose was singular, to transport granite between Quincy and the Neponset River at Milton to build the Bunker Hill Monument (completed in 1843).
- 1851: The first ice-cooled refrigerated boxcar entered service on the Northern Railroad (Upstate New York).
- 1857: The first shipment of refrigerated, dressed beef traveled from Chicago to the East Coast in ordinary box cars packed with ice. Stops about every 250 miles to “re-ice” were needed.
- 1866: Horticulturist Parker Earle shipped strawberries in iced boxes by rail from southern Illinois to Chicago on the Illinois Central Railroad.
- 1867: First U.S. ice-cooled refrigerated railroad car patent was issued.
- 1868: William Davis of Detroit, Michigan developed a refrigerator car cooled by a frozen ice-salt mixture, and patented it in the U.S. The patent was subsequently sold to George Hammond, a local meat packer who amassed a fortune in refrigerated shipping.
- 1876: German engineer Carl von Linde developed one of the first mechanical refrigeration systems.
- 1878: Gustavus Swift (along with engineer Andrew Chase) developed the first practical ice-cooled railcar. Soon Swift formed the Swift Refrigerator Line (SRL), the world's first.
- 1880: The first patent for a mechanically refrigerated railcar issued in the United States was granted to Charles William Cooper.

Today we can all thank a great many people for all the fresh fruit, vegetables, and adult beverages we get to enjoy year-round. It would come naturally that refrigerated truck transport over the roads and highways stemmed from refrigerated rail car designs. So, the next time you ride around going to the grocery store, or the liquor store you can thank goodness for the “R” in HVAC. I will bet none of you will ever take this for granted ever again. You may look closer at the next freight train and see if there are any refrigerated box cars. The numbers are huge and one can certainly see tractor trailers on flatbeds hauling around fresh and frozen goods by the truckload.

We certainly look forward to seeing you again. I liked you virtually but am much happier to see you in person,
Eric Edman



Eric Edman
Historian



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EVENTS CALENDAR

Date	Event	Location	Event Information
September 13, 2022	September Meeting	Doubletree Boston-Cambridge	Topic: COMPRESSOR TECHNOLOGY Presenter: Mark W. Fly, PE
October 11, 2022	October Meeting	Embassy Suites Waltham	Topic: DECARBONIZATION OF EXISTING BUILDINGS Presenter: Joe Dussault & Jesse Stallions
November 2, 2022	Product Show	Marriott Quincy	Details on Page 4
December 13, 2022	December Meeting	TBD	Topic: HEAT EXCHANGERS Presenter: Tracey Putnam
January 10, 2023	January Meeting	Embassy Suites Waltham	Topic: LIQUID SUBCOOLING Presenter: Peter Fung
February 7, 2023	February Meeting	TBD	Topic: DEI & ASHRAE: DOES IT REALLY MATTER? Presenter: Devin Abellon, P.E.
February 21, 2023	YEA/DiA Joint Social	TBD	Details to follow.
March 14, 2023	March Meeting	TBD	Topic: GEOTHERMAL SYSTEMS Presenter: Andrew Kozak, P.E.
March 2023	YEA Event	TBD	Details to follow.
April 11, 2023	April Meeting	TBD	Topic: PANEL DISCUSSION Presenter: TBD
April 2023	DiA Event	TBD	Details to follow.
May 9, 2023	May Meeting	TBD	Topic: Past Presidents & History Night Presenter: Eric Edman
May 2023	ASHRAE Golf Outing	Granite Links	Details to follow.
June 2023	YEA Event	TBD	Details to follow.

*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 ASHRAE Twitter](#) 
[Twitter](#) 

Boston Monthly	ASHRAE Society— Complete List
Boston Chapter	YEA Events
DiA Events	Other Societies

