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MARCH MEETING—Joint with AEENE!

When: March 9, 2021
5:30 —7:45 pm

Where: [GoToMeeting](#) ← Sign up link here!

Details: Tech Session (5:30—6:30)
Presenter: Zack Lippert
Topic: Micro-Combined Heat & Power (mCHP) from Mass Save

Main Meeting (6:45—7:45) PDH Pending
Presenter: Stephen Lafaille
Topic: New Developments in Combined Heat and Power

PRESIDENT'S MESSAGE

Hello Everyone!

Thank you to everyone who attended the February meeting presented by two of our very own chapter members Eric Edman and Steve Tafone. Eric's chapter history is always exciting and it was fantastic to hear Steve go over HVAC control fundamentals. We are looking forward to hosting the annual joint meeting with ASHRAE and AEE this month and hearing from Zack Lippert and Stephen Lafaille about combined heat and power as well as micro-combined heat and power.

Thank you to Amy Gebhardt and Erica Norquist for continuing with the diversity in ASHRAE highlights. It has been great to hear from some of our chapters diverse members. I would also like to thank all of our 2021 corporate sponsors whose contributions helped us raise over \$50,000 for ASHRAE.

Our YEA Chair Gage Foley will be hosting another noon-time webinar on March 23rd. If you have suggested topics please reach out to him at c001yea@ashrae.org.

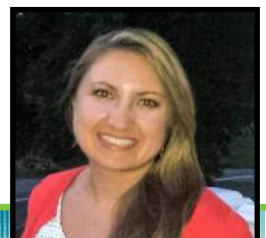
If you are interested in volunteering in the Boston chapter, please get in touch with me and we will have you join our next Board of Governors meeting to see how you can get involved. You can reach me at c001@ashrae.org or contact any of the volunteers with questions, concerns, or suggestions to help improve our chapter.

With gratitude,



Deanna Adkison
ASHRAE Boston Chapter President

Deanna Adkison
(Fitzemeyer & Tocci)
Boston Chapter President



March Meeting - Tuesday March 9th, 2021 Joint Meeting with Association of Energy Engineers New England Chapter

Location GoToMeeting Virtual Webinar—Registration Link [Here](#)
Time 5:30—7:45 pm

- 5:30—6:30 pm Tech Session
- 6:30—6:45 pm Break / Intermission / Meeting Run-Over-Time
- 6:45—7:45 pm Main Meeting **PDH Pending**

Tech Session **Presentation:** Micro-Combined Heat and Power from Mass Save
Presenter Bio: Zack Lippert is a Lead Analyst with National Grid in their Customer Energy Management team. Prior to joining National Grid, Zack obtained an MBA with a focus on Energy Business from Carnegie Mellon University. In his previous career, Zack was a member of the New York City chapter of ASHRAE while working as an Energy Engineer at Edison Energy, Eneractive Solutions and Eaton. Additionally, he was a member of the Penn State ASHRAE student branch while he was earning his Bachelor of Architectural Engineering degree there. In his current role at National Grid Zack focuses on energy efficiency offerings for C&I customers through the Mass Save brand. He has most recently been involved in expanding the asset optimization offers, revising the CHP Guidebook and creating the new micro-CHP offering with the other Mass Save program administrators. He joined the company in 2019. On the personal side, Zack is originally from Pittsburgh, and moved to Boston with his wife after their wedding in 2019. He’s looking forward to exploring Boston when the pandemic subsides.
Presentation Overview: Zack will review what mCHP is and how it compares to CHP. He will go over the CHP offering and why it doesn’t work for mCHP. Zack will explain the mCHP offering and explain which customers are a good fit. He will explain how to participate in the offer and will demonstrate the Custom Express Tool.



Zack Lippert
National Grid

Main Meeting **Presentation :** New Developments in Combined Heat and Power
Presenter Bio: Mr. Stephen Lafaille is the Director of Business Development for Tecogen Inc. Tecogen is a leading manufacturer of Combined Heat and Power (CHP) products including natural gas engine-driven generators, chillers, and refrigeration packages for commercial and industrial use. Steve is responsible for developing new business relationships to help grow Tecogen’s awareness and sales, allowing Tecogen to maintain its reputation as the leader in advanced CHP systems. Steve has been with the company for over ten years and started in the engineering group as a product development engineer at Tecogen. In addition to his business development efforts, Steve works closely with sales people, manufacturer’s representatives, and customers to provide product and application technical support, and performs detailed economic feasibility analyses, and helps close sales. Steve represents the company directly to customers, such as hospitals, schools, colleges, government offices, multi-family housing, and industrial facilities. He also works closely with utilities to create custom incentive programs to help them meet their energy savings goals as well as help their customers improve their bottom line. Steve has a B.S. and M.S. from the University of New Hampshire both in Mechanical Engineering. Steve is also a registered Professional Engineer in the State of Massachusetts.



Stephen Lafaille, PE
Tecogen Inc.

Presentation Overview: New Developments in CHP will cover updates to Mass Save CHP incentives, new CHP technology developments, and today’s current market drivers will be reviewed including energy cost savings, resiliency, and carbon savings.

Notes To RSVP [CLICK HERE](#)
Meeting is free to all attendees

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Thank you to all our 2021 Sponsors! We had a very successful campaign this year and doubled our sponsorships. Your commitment to the chapter provides benefits to your companies and helps the chapter bring quality programs to our members. We appreciate your continued support.

Bob Persechini

ASHRAE Boston Diversity Highlight

Starting back in December, ASHRAE Boston began highlighting some of our minority members to learn more about them and hear a bit about their experience in the HVAC industry. This month we hear from Boston Chapter past president, Dan Carington. Please reach out to Erica Norquist and Amy Gebhardt at c001dia@ashrae.net if you have a diverse perspective of our industry! Whether it be your ethnicity, religion, sexual orientation, gender identity, first language, or any other identifier, we would love to hear about your experience in the industry.

Amy Gebhardt and Erica Norquist
c001dia@ashrae.net

We are continuing this spotlight with the same questions we asked last month:

Dan Carington

Q: Why or how did you get into the industry?

A: Funny thing, I was attending a Wentworth Institute of Technology college tour and I saw this really nice car in one of the design class rooms that the Mechanical Class was designing and I said, "I want to get in the Mechanical Design major and design cars and stuff like that." So, the following year I registered in the Mechanical Design curriculum at Wentworth. A few years into the program people were saying that the best job I should get into would be in the Mechanical Engineering curriculum and I never looked back.

Q: What opportunities has being involved in ASHRAE provided?

A: Being involved with ASHRAE has provided me with many resources related to the HVAC industry. Keeping me up to date with technical advances in the HVAC industry like new technology, technical information and influence of the building environment techniques. I have been fortunate enough to have met and befriended some amazing people in the industry. My proudest accomplishment is having sat in many officer chairs as a member of the Boston ASHRAE Chapter all the way up to the chapter President.

Q: What is your insight or something you would like to share about being a minority in the AEC Industry?

A: Being a minority in the AEC industry, I find that AEC professionals work well together to bring projects to completion, integrating their area of specialty more efficiently and effectively to meet the goal at hand. The industry has become more diversified in many areas helping to make this possibility to meet these goals, bringing more women and people of color in an industry which was once predominantly mostly of only white men. Many minorities are getting more involved in the AEC community making a difference, showing they can actually do the work of their counterparts and work together and get the job done.



HISTORICAL NEWS

BY: ERIC EDMAN

Last month happened to be a historical first. Both presenters for the monthly meeting were Boston Chapter past presidents!

I really enjoyed Steve Tafone's presentation. He can add so much color with just his Brooklyn accent alone. Way to go Steve! "Fogetaboutit" is all one word.

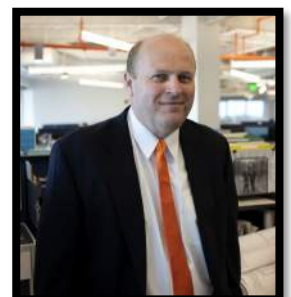
I enjoyed presenting our chapter history to all of you. We are very fortunate to have such a rich history and I work hard to keep expanding this for future generations to know where we came from and how we evolved.

I do want to ask that if you have something, anything, you wish to submit to enrich our chapter history archives we will take it. Do you have photos of old shows, group pictures, past presidents, etc.? We would be very appreciative and we will save them in our archives. Email is the best way to reach me - eedman@brplusa.com.

Thanks as always for supporting ASHRAE and thanks for supporting history as well.

Eric Edman

c001his@ashrae.net



Eric Edman
Historian

EVENTS CALENDAR

Date	Event	Location	Main Meeting	Tech Session
March 9, 2021	March Meeting— Joint AEENE	Online	Stephen Lafaille—New Developments in Combined Heat and Power—PDH Pending	Zack Lippert— Micro-Combined Heat & Power from Mass Save
March 23, 2021	YEA Meeting	Online	Noon webinar by Gage Foley, send topic requests to Gage at c001yea@ashrae.org !	
April 13, 2021	April Meeting	Online	Noise and Vibration in Industrial Settings, How to Mitigate It—Jag Rajaserkaran	
May 11, 2021	May Meeting	TBD	Installation of Officers	
May 24, 2021	Golf Outing	Granite Links		

Join and check the ASHRAE Boston Chapter LinkedIn page for the most up to date information!

[Boston ASHRAE Facebook](#)



[Boston ASHRAE Twitter](#)



[Boston ASHRAE LinkedIn](#)



Boston Monthly Meetings

ASHRAE Courses—
[Complete List](#)

Boston Chapter Special Events

YEA Events

DiA Events

Other Societies Events

New Member Welcome!

On behalf of everyone at Boston ASHRAE, please help us in welcoming the newest members of our Chapter!

- Timothy Heno
- Lou DiSano
- James Girouard
- Emily Dillon
- Ryan Kucinski
- Matthew Slattery

We are always looking for new members to grow our community. If any current members of the Boston ASHRAE chapter are looking to get more involved with the operations of the chapter, the BOG, or just looking to lend a helping hand, we are always looking for volunteers. Please reach out to Lucas Rowe (Membership Promotion Chair at mem01@ashrae.net) for any info on how you can get involved with Boston ASHRAE!

Thank you,
Lucas Rowe

Research Promotion

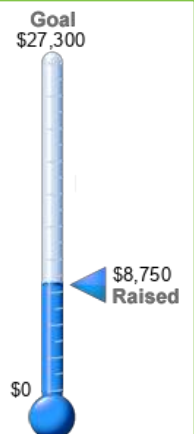
Dear ASHRAE Members,

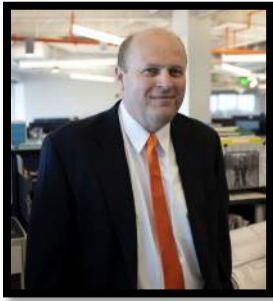
Our research promotion goal for 2020-2021 is to raise \$27,300 for ASHRAE. We have raised \$8,750 so far this year. We are looking forward to adding the money raised from our corporate sponsors!

You can start helping ASHRAE reach our goals by donating online at www.ashrae.org/donate. Let me know if you are interested in donating in another way other than online. We can always accept donations at upcoming meetings as well. Please contact me with any other questions you may have or if you would like to be directed to additional resources.

Thank you!

Will Cunningham
c001rp@ashrae.net





Eric Edman
Historian

History Special Feature

By: Eric Edman - BR+A

Well, by now you have probably heard the news. Yes, ASHRAE has turned 125 years old. While that may seem trivial to some, I can tell you otherwise. When someone asks me what I do for a living, I talk about HVAC. HVAC is something most people just take for granted. I tell them that the field of HVAC is very diverse and is involved in everything from Navy submarines to the International Space Station. Today, people do not go very far without HVAC and they only become aware of it only when they are not comfortable-thermally speaking.

This ASHRAE season, with history in mind, I have spent my efforts focusing on HVAC history from right here in Boston. I have even narrowed the focus to events and stories that occurred prior to our group formation in 1895. This month is no different and I wanted to try to find the very first building that was air conditioned in our great city and answer questions like where, when, who designed it, built it, is it still standing? I did not have luck; records for that are hard to find.

In my search for this significant first, I came across many other “firsts”. It makes a lot of sense when we consider how old Boston is and how talented the early residents were. I want to take you all back in time to just before ASHRAE organized in 1895. If you were living in the Boston area in 1894 with a sick child and little money where would you go for help? Very commonly, the answer was nowhere; infant mortality was quite high. Approximately 1 in 10 children did not make it past age five. In light of the ongoing pandemic, we talk about Coronavirus, but simple things like viruses have been around a long time and have caused many issues for humankind. Fortunately, science has progressed, thanks in part to HVAC, and the field of medicine has developed into what it is today. Thanks to science, computers, and deep freezers, we have the ability to make a COVID vaccine.

Now back to 1894. At the time, it was felt that illness might be cured with better food and water, compassionate medical care, and fresh air. The easiest thing to provide was fresh air. A local Congregational minister, Rufus Tobey, organized a charitable endeavor to purchase a barge. *The Clifford* was a simple barge that was towed around as a party boat at night and a hospital ship by day. Out into the harbor they went for fresh ocean air. They made six



The Boston Floating Hospital.
(Courtesy Tufts Medical Center)

trips that first season. Well, you guessed it, The Boston Floating Hospital (BFH) was born. The hospital grew and in 1906, they had a purpose ship built- this ship was larger, was powered and dedicated to hospital duty. A photo of the second BFH is shown above.

The second ship had a tragic fire in 1927. Before the fire, sometime in the mid 1920’s they installed cooling. The board of directors had learned of a local chocolate factory that had installed cooling! By this time we know Bakers Chocolate had cooling. For \$5,000 (approx. \$75,000 today) cooling was installed on the ship which might make this a double first, the first hospital with cooling as well as the first ship with cooling. I can’t say this is the first building cooled in Boston so I will have to continue my quest. I have not been able to find any details on the cooling system or the designs.

The BFH had no ship after the tragic fire of 1927 but continued somehow. Through charity and good will, the BFH expanded to provide ride services on the following page you will see a photo from 1924 of one such shuttle service in action. Getting your photograph taken was a very big deal. In some cases this may have been the only family photograph of a child.



The hospital’s second ship, which was built at the Atlantic Works Wharf in Boston in 1906, was completely destroyed by fire in 1927. (Courtesy Tufts Medical Center)



A shuttle car transported patients to and from their homes. The boat and the on-shore department. The whooping cough clinic soon became its principle destination. Taken in 1924. (Courtesy Tufts Medical Center)

By 1931, the Floating Hospital had decided to move from sea to a land based operation. They built the Jackson Building on Ash Street. They involved medical students from Harvard initially and then from Tufts -which partly explains why it is associated with Tufts Medical and Boston Children's is associated to Harvard Medical. The Floating Hospital remained in the Jackson Building until 1982 when the current building replaced it.

In addition to the discovery of the benefits of clean air and air conditioning to treat disease and illness, medical science learned that many diseases were connected with poor nutrition and poor water quality. Clean water made Cholera all but disappear. Other medical concepts of major importance were evolving at the BFH. Perhaps one of the most significant was the involvement and education of the parents to become part of the child care team. One other was the creation of Similac, the baby formula that revolutionized pediatric care. Child care on board the ship was another beneficial offering. Below you can see a bunch of happy children learning all about ASHRAE! The boy in the lower right just realized he forgot his psychrometric chart.

It was the creative vision of a local minister (not a doctor) who was inspired by a need for the less fortunate, which transformed medical care for the less fortunate, which in turn opened a barge and then created a larger purpose built ship. The ship (which added air conditioning) also added and trained medical students, who advanced and aided science and further discovery to create all of what we have today. I do not think it can get any better.

I think we owe a LOT to that kind of visionary person. Thank you to Reverend Tobey. It shows clearly what one determined person can really accomplish — effective change to change the world.

I hope you enjoyed this short story of how one of the first air conditioned spaces in Boston came to be, and what it did for all of us.

I will also thank public talk radio WBUR, and Tufts Medical for much of the content of this article.

Eric Edman

c001his@ashrae.net



Mrs. Parker Field, the superintendent's wife, teaches children's games and songs by way of the entertaining the kindergarten class on the open-air deck. Taken in 1906. (Courtesy Tufts Medical Center)

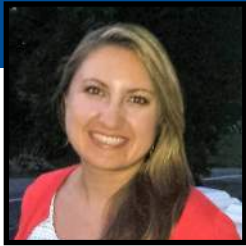
Presidential Award of Excellence



Boston Chapter - 2020-2021

Chapter Members	Membership Promotion	Student Activities	Research Promotion	History	Chapter Operations	Chapter Technology	Government Affairs	Electronic Communications	YEA Points
<u>1000</u>	<u>910</u>	<u>700</u>	<u>525</u>	<u>230</u>	<u>725</u>	<u>200</u>	<u>150</u>	<u>580</u>	<u>875</u>

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Fitzemeyer & Tocci
c001@ashrae.net



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BR+A
c001pe@ashrae.net



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BR+A
c001vp@ashrae.net



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