



NorthEastAire

Volume LIV, Issue No. 1

September 9, 2021

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SEPTEMBER MEETING

When: September 14, 2021
5:30 —6:30 pm

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

Details: Main Meeting (5:30—6:30) **1.0 PDH Pending**
Presenter: Brock Trimble
Topic: Wastewater Energy Recovery

The Board of Governors monthly meeting will be held from 4:30—5:30 pm and all members are invited to attend and hear about chapter plans and operations.

BOSTON CHAPTER OFFICERS 2021-2022



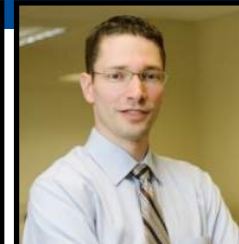
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President's Message

Hello everyone, I am excited to be welcoming you back to another year of ASHRAE!

Our past president, Deanna Adkison, lead us through unprecedented and unknown times last year and I intend to pick up where she left off and keep moving with strength through this upcoming season. We owe her our gratitude in keeping things going during a time where everything was a new experience and everything had to be done through a screen. Thank you, Deanna, for all your hard work and dedication!

As president this year, I intend to make sure that you continue receiving the same quality of technical presentations that you have become accustomed to at our monthly meetings. During our planning meeting it was decided that we will start to hold in-person meetings as soon as it safe and we can run our meetings at full capacity. We will hold our first meeting virtually and we will see how the year progresses from there! We will reevaluate and plan according to the current guidelines to see if in person meetings make sense on a month to month basis. Please make sure to register and do not hesitate to ask me, or any of our other volunteers, any questions you might have about the upcoming year!

The Chapters Regional Conference (CRC) for Region 1 was held in a hybrid fashion this year August 19-21. The chapter delegates and alternates were able to meet in person in Portland, ME in a safe manner. While it wasn't as expansive as CRCs prior to the pandemic, it was nice to start to return to a sense of normalcy this year! Next year, we are planning to have a full CRC in Concord, NH with all of our volunteers invited. We are always looking for new volunteers within the Boston Chapter, please reach out to me if you would like to get involved. We have another strong and supportive group this year that I believe will continue to make Boston a very successful chapter.

I hope to see you all at our first virtual meeting on September 14th via GoToWebinar! We have an excellent topic planned on the Heat Recovery Systems for Wastewater, a new emerging technology to make future projects even more energy efficient. Read the previous page for more info on these upcoming presentations. Registration will be done online through the link on the previous two pages of this newsletter.

Please email me at c001@ashrae.net or contact any of the volunteers with questions, concerns, or suggestions to help improve our chapter.

Thank you all,

William Cunningham

ASHRAE Boston Chapter President



President
Will Cunningham
BR+A

EMPLOYMENT ADS FOR SALE!

Is your company hiring? Your employment ad could be here next month! Purchase an employment ad through the Boston ASHRAE Chapter and get your ad seen by all of our readers and members.

\$500 gives you one full month of advertising. ASHRAE Boston will post your employment ad on the Chapter website for one month, on all social media platforms one time (LinkedIn, Twitter, Facebook), and print a full page ad in one month of NorthEastAire which is sent by email to over 1,000 members!

Reach out to the Newsletter Editor, Allison Guttadauro, at northeastaire@gmail.com if you have questions or want to purchase an employment ad.

September Meeting - Tuesday September 14th, 2021

Location GoToMeeting Virtual Webinar—Registration Link [Here](#)

Time 5:30—6:30 pm, PDH Pending

Main Meeting Presentation: Wastewater Energy Recovery

Presenter Bio: Brock Trimble is the Technical Sales Manger with SHARC Energy Systems, a BC-based wastewater energy recovery equipment manufacturer. With over a decade of hands-on application experience and system knowledge, Brock has been involved in a range of projects of various sizes and applications, from initial design concept through equipment manufacture, installation and ongoing operations.

Presentation Summary:

What is wastewater energy recovery, and how does it apply to the future of energy efficiency and decarbonization? Join SHARC Energy Systems and HTS to learn how this previously overlooked source of energy loss from buildings can be utilized to endlessly recover and recycle energy within projects ranging from individual multi-family residential buildings, to commercial and industrial applications, and even up to district energy networks.



Brock Trimble
SHARC Energy

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

Note to Our Members

All of the chapter officers, committee chairs and members, and volunteers were hopeful that we would be meeting in person at the start of this ASHRAE season but various restrictions have made it difficult to make that happen. We are looking forward to hosting some monthly meetings at the Embassy Suites in Waltham and would like to host some meetings in Boston or near the city as well. The location where we previously hosted our Boston meetings closed permanently during the pandemic and we are in search of a location in Boston that could host some of our monthly meetings. If you have any ideas for locations, please share them with me.

We will switch to an in person meeting format as soon as possible but don't have a definitive month or date at this point. All information will be shared on our chapter website, LinkedIn, and Twitter and emailed out to our chapter members and contact list. If you received this newsletter by email from admin@ashraeboston.org you are already on the contact list, if not, you can sign up at [this link](#) and be sure to check your spam folder. Thank you!

Will Cunningham
c001@ashrae.net

FREE YEA EVENT
AXE THROWING
Thursday, October 7
5:00 - 8:00 PM

REVOLUTION
AXE THROWING

info@revolutionaxe.com
(617) 944-9663
73 Norman Street
Everett, MA 02149

Free Axe Throwing
Free Beer or Wine
Free Pizza

Advance Registration Required
If you want to axe throw you need to arrive no later than 5:15 PM to fill out a release and listen to a short safety talk.

Questions? Email gage@trumbullcampbell.com or matter@trumbullcampbell.com



EVENTS CALENDAR

Date	Event	Location	Main Meeting	Tech Session
September 14, 2021	September Meeting	Online	Wastewater Heat Recovery Systems	No Tech Session this month
October 7, 2021	YEA Event	Free YEA Event at Revolution Axe Throwing in Everett, MA. Pizza and drinks provided, advanced registration required. Sign up here!		
October 13, 2021	October Meeting	TBD	TBD	
November 16, 2021	November Meeting	TBD	TBD	
November	YEA Event	TBD	TBD	
December TBD, 2021	December Meeting	TBD	Joint meeting held by ASPE	
January TBD, 2022	January Meeting	TBD	TBD	
January 2022	DiA Event	TBD	TBD	
February TBD, 2022	February Meeting	Double Tree, Waltham	Joint meeting with AEE, Hosted by AEE, Heat Pumps, Energy Efficiency, Cold Climate Offerings	
March 2, 2022	March Meeting	TBD	Joint meeting held by AEE	
April 19, 2022	Product Show	TBD		
May TBD, 2022	May Meeting	TBD	Installation of Officers	
May TBD, 2022	DiA Event	TBD	Boston Monthly Meetings	ASHRAE Courses— Complete List
June TBD, 2022	Golf Outing	TBD	Boston Chapter Special Events	YEA Events
			DiA Events	Other Societies Events

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

[Boston ASHRAE Facebook](#)

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Presidential Award of Excellence



Boston Chapter - 2021-2022

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>1000</u>	<u>350</u>	<u>100</u>		<u>350</u>	<u>50</u>				<u>600</u>

Region 1 CRC 2021 Recap—Part 1

By: Deanna Adkison

This year’s Region 1 CRC was divided into two parts; the first was held in August for alternates, delegates, and the Region 1 executive committee (Ex Com), the second will be attended by Region 1 chapter committee chairs in September. In an attempt to return to some of the social aspects of ASHRAE that we are all accustomed to, part one was held as a reduced capacity in-person event in Portland, Maine on August 19th and 20th.



Day one’s business meetings included an overview of the regional positions and the structure of ASHRAE, a review of some initiatives currently underway at the regional and societal levels, and an introduction of the motions being presented by chapters for review. The day concluded with dinner and a presentation of awards to each of the chapters, accepted by chapter delegate and alternate Deanna Adkison and William Cunningham.

Day two included voting on new regional positions, chapter presentations, and voting the on motions presented by the chapters. The day concluded with a Maine lobster dinner and a presentation by the guest of honor, this year’s ASHRAE Society President Mick Schwedler.



The awards presented to the Boston chapter for the 2020-2021 year included:

- Plaque YEA Outstanding Chapter Performance – Honorable Mention Gage Foley / Boston
- Presidential Award of Excellence Honor Roll, Star, Special Citation—Deanna Adkison / Boston



The 2022 ASHRAE Winter Conference will be a hybrid experience, offering both in-person and virtual options for participation for attendees. The in-person conference will be held in Las Vegas, Nevada at Caesars Palace.

2022 ASHRAE Winter Conference | January 29–February 2, 2022 | Las Vegas, Nevada

AHR Expo | Jan. 31–Feb. 2, 2022 | Las Vegas Convention Center

Tune into conversations between leading ASHRAE experts as they discuss what HVAC engineers need to know to design better systems and grow the HVAC&R industry.

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Historical News

By: Eric Edman - BR+A

Hello and welcome to another new season of ASHRAE.

One thing many of you may not know of is how hard we worked to keep the Boston Chapter going last year when so many others simply gave up.

Last year was like no other, and what surprised me was how many of you called me on an old fashioned telephone to thank me for all the history special feature articles I wrote last year.

I had the pleasure of taking our past president, our newsletter editor, and our publicity chairwoman for a boat ride down the mighty Charles River this past month. It was a simple way of saying thanks for all that hard work they put in last year, and I will never forget that. Thank you ladies. One thing I do on the boat ride is point out many of the buildings—and the historical significance of them—along the ride.

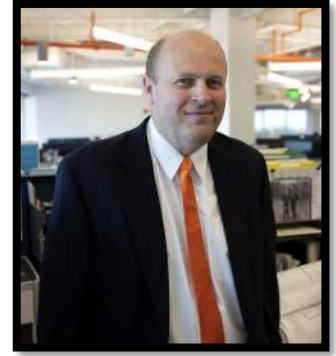
This month's special feature will get into details on the subject of buildings along the Charles....

Actually, I could use a hand with history. If any of you want to be so bold as to get off your chair and help, we can talk. Even your suggestions on research into things helps. Have any special ideas? Please send them in. We do talk about these special ideas. And if any of you have old pictures of ASHRAE events share them please.

On a somewhat sad note, I was contacted by our friends at Lantanas in Randolph who advised me they are going out of business. That means that our Product Show that was cancelled in 2020 will never ever be at Lantanas again. The hunt is on for a new place to hold our show. If any of you have ideas or suggestions please send them along. I will make sure that the Product Show Committee is made aware of all ideas.

I will wish you all well for the ending of summer and gearing up for fall. I can only say how much I look forward to seeing all of you at monthly meetings. Until then, see you at the beach!

Eric Edman, c001his@ashrae.net



Eric Edman
Historian

History Special Feature

By: Eric Edman - BR+A

Hello all members and history enthusiasts! I am continuing what I started last year which is searching for and sharing "firsts" in the nation or world that occurred right here in Metro Boston. Last year I wrote about America's First Fan Company (B.F. Sturtevant), the first chocolate factory in the US (The Bakers Chocolate Co), and the first subway in the nation (part of the current Green Line) to name a few.

If I showed you the picture to the right, could you tell me where this building was? Could you tell me what it was built for, by whom, and what they did there? My guess is probably not.

For you curious types, this is 640 Memorial Drive, Cambridge (that is correct, not Boston). Hint: It was built for an automobile manufacturer that is still in business. Another Hint: They made an early crossover between a car and a truck.

Last hint: What many of you might have never known is that Boston (really Cambridge) was once a thriving hub of automobile manufacturing. Every time I pass this building when boating on the Charles River I enjoy telling people it was once a Ford Plant, really.

The Ford Motor Company Assembly plant was built in 1913 in the first stage of decentralization of Ford production from Detroit to sites around the country. The Northeastern branch of the Ford Company was initially located in Boston and, following construction of a newer larger plant on Memorial Drive, moved to Cambridge in 1914. The plant stood on a riverfront site due to Ford wanting all his factories have access



to water routes. Remember the interstates had not yet been created! Although the Ford business prospered in Cambridge, the assembly operations moved to a new plant in Somerville, MA—in you guessed it, Assembly Square—in 1926. The Cambridge building now belongs to the Massachusetts Institute of Technology and was once used for manufacturing by the Polaroid Corporation.

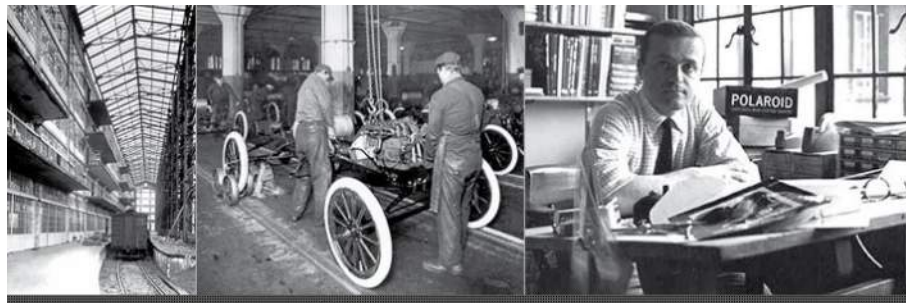
Ford had the vision that regional manufacturing could cut delivery costs (he was correct) and offer redundancy in case of unforeseen issues at other locations. This was actually the first vertically integrated assembly plant in the world. They started on the ground floor and the finished cars were test driven on the roof. Once approved, they were put on an elevator down to the train transport that carried them across the Charles on the tracks below the BU bridge.

The significance to the HVAC industry is the steam powered systems at this location; steam powered the large elevator and heated and powered the building operations. Steam even drove the locomotives that transported the cars via a rail around the building as they were being assembled. It sounds crazy but rail transport was far more efficient than truck transport. Auto manufacturing has deeper connections to our HVAC professions as heating and air conditioning systems made their way into the automobile. Many of these have ties to the Sloan Auto school at MIT.

I will leave you with a trivia question and some fun automobile and air conditioning facts. What car manufacturer was first to offer air conditioning as an available option and what year was this?

- The 1940 Packard was the first car to offer factory-installed air-conditioning. Packard was Cadillac’s chief competitor.
- By 1969, more than half of all new cars sold were equipped with A/C.
- Some brands affixed window decals to promote their air-conditioned automobiles.
- For cars not equipped with factory air, dealer-installed, under-dash units were popular.
- In a 1971 front-page story, the New York Times implicated air-conditioning in the death of the convertible, postulating that: "In the age of air-conditioning, real air has lost its value."
- After the freon used in A/C units was blamed for depleting the ozone layer, automakers were required to switch from R12 to the less harmful R134a refrigerant by 1996.
- Dual-zone automatic climate control allows for separate temperature settings for driver and passenger; some cars have additional zones for rear-seat passengers.
- Today, more than 99 percent of all new cars are air-conditioned.
- Testing by Consumer Reports found that using a car's air-conditioner resulted in a more than 3 -mpg loss at highway speeds. Driving with the windows open had no measurable effect on fuel economy.

Circa 1920



Top Left: Ford's Cambridge Assembly's central hall; parts arrived by rail from Ford's plant at Highland Park, Michigan. In early years, branch assembly plants like Cambridge averaged just 10 cars per day. Top Middle: Assembly-line workers mate an engine and chassis together at Ford's Model T plant at Highland Park in 1913, the year before the Cambridge Assembly opened. Top Right: Polaroid was a later occupant of the five-story Ford building and used it for manufacturing. Bottom: The Cambridge Assembly plant under construction in 1913. Beginning in 1910, Henry Ford built Model T plants throughout the country; assembling cars near regional markets greatly reduced shipping costs. All photos courtesy of Ford Motor Company Archives and the Cambridge Historical Commission

Eric Edman, c001his@ashrae.net

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Positions are open!
Please contact
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