

Special points of interest:

- May Installation
- DiA & YEA Networking Event—Page 3
- History Special Feature—Page 5&6

Golf Outing & - Installation of Officers!

When: Monday May 24, 2021
11:30 am—Registration and Lunch
12:45 pm—Shotgun Start—True Scramble Format
6:00 pm—Reception with Dinner and Installation of Officers

Where: Granite Links, 100 Quarry Hill Drive, Quincy, MA 01269

Details to follow! Check for emails and see [chapter website](#).

PRESIDENT'S MESSAGE

Hello Everyone!

Thank you all who attended our April meeting which was our first lunch webinar and included a presentation on "Industrial Noise and Vibration Isolation" presented by Jagannath (Jag) Rajasekaran. If you have any additional questions or comments on the presentation, please let me know.

Our next event will be in installation of officers for 2021-2022, which will be held at the golf outing on May 24th. We will be sending out invitations to welcome our new officers.

As a reminder, our annual golf outing will be held on May 24th at Granite Links. Registration opened for Platinum and Gold Sponsors on Monday April 24th and became open to the public on Wednesday April 28th. All foursomes have been filled! If you wanted to golf and were not able to get a foursome, consider becoming a Platinum or Gold sponsor next year for early access to registration.

I hope you all are enjoying the couple of spring days that we have been having and are looking forward to a wonderful summer. Thank you all for your continuing support of the chapter, maintaining and renewing your membership throughout this year and staying involved. Be sure to maintain your membership status to enjoy the benefits at both the chapter and society levels. If you have any questions about your membership, such as joining, renewing, or upgrading your membership status, please contact me or your membership chair Lucas Rowe c001mem@ashrae.net.

If you are interested in volunteering with the Boston chapter, please get in touch with me and we will invite you to join our next Board of Governors meeting to see how you can get involved.

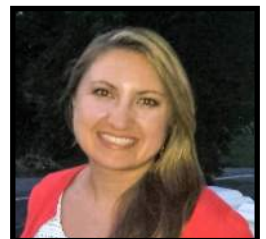
Please email me at c001@ashrae.net or contact any of the volunteers with questions, concerns, or suggestions to help improve our chapter.

With Gratitude,



Deanna Adkison
ASHRAE Boston Chapter President

Deanna Adkison
(Fitzemeyer & Tocci)
Boston Chapter President



Golf Outing & Installation of Officers

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Government Affairs

By: Will Fisher FIA Inc.

Green New Deal Reintroduced

Rep. Alexandria Ocasio-Cortez (D-NY) and Senator Ed Markey (D-MA) unveiled the latest version of the Green New Deal. Ocasio-Cortez has criticized Biden's climate agenda as not going far enough, which she reiterated at a news conference unveiling the legislation. The new version of the bill would authorize \$1 trillion for cities, tribes, and other local governments to implement the Green New Deal and create a Civilian Climate Corps. To learn more, [click here](#).

DOE Issues Preliminary Determination of ANSI/ASHRAE/IES Standard 90.1-2019

On April 16, the U.S. Department of Energy (DOE) announced its preliminary positive determination of energy savings for ANSI/ASHRAE/IES Standard 90.1-2019. Based on the [technical analysis](#) provided by DOE's Pacific Northwest National Laboratory (PNNL), buildings meeting Standard 90.1-2019 (as compared to the previous 2016 edition) would result in national average energy savings of approximately:

- 4.7% site energy
- 4.3% source energy
- 4.3% energy cost
- 4.2% carbon emissions

Interested stakeholders can submit comments within 30 days of publication. To learn more, [click here](#).



Will Fisher

Government Affairs
 c001gac@ashrae.net

Student Activities

By Yuka Narisako

We are delighted to award the Cheryl Rossini Future Engineers Scholarship to Trinh Huynh, a second year electrical engineering student at Wentworth Institute of Technology, and Joshua Alpert, a high school senior pursuing an engineering degree at the Rochester Institute of Technology. We had a handful of highly qualified students apply for this year's scholarship, but these two students stood out for both their impressive grade point averages and extracurricular activities. We are thrilled to be able to assist financially in their academic careers.

Thank you to all students who applied for the Cheryl Rossini Future Engineers Scholarship. We are aware that the application requires a few processes involving multiple people and we appreciate the time and effort put forth in applying for the scholarship. I would also like to congratulate Rida Jawed of Northeastern University for being chosen for this year's recipient of the ASHRAE Region I Setty Family Foundation Scholarship. I encourage our other student members to apply for ASHRAE society-level scholarships in the next school year.

Please contact me at c001sa@ashrae.net with any additional questions!



Yuka Narisako
 Student Activities Chair

Registration details to follow.

A flyer for a networking event. The background is dark with a network of white dots and lines. The text is in yellow and white. The main title 'NETWORKING EVENT' is in large yellow letters. Below it, 'ASHRAE'S DIA & YEA PRESENT' is in white. The event details are in yellow: 'MAY 27TH, 2021', 'NOON - 1 PM, VIA ZOOM', and 'NO COST TO ATTEND'. The ASHRAE Boston Chapter logo is at the bottom, and contact information for Amy Gebhardt is at the very bottom.

NETWORKING EVENT

ASHRAE'S
DIA & YEA
PRESENT

A VIRTUAL LUNCH TIME GET
TOGETHER TO MIX WITH
OTHER CHAPTER MEMBERS

MAY 27TH, 2021
NOON - 1 PM, VIA ZOOM
NO COST TO ATTEND

ASHRAE Boston Chapter

ANY QUESTIONS CAN BE SENT TO AMY GEBHARDT
AMY.GEBHARDT@VICTAULIC.COM

ASHRAE Boston Diversity Highlight

ASHRAE Boston is continuing to highlight 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 Terri Laurence, Principal and Mechanical Department Manager at CMTA. 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

Terri Laurence

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

A: I knew back in my high school years that I wanted to work in a technical field, to have a career that allowed me to design and be a part of the process of seeing whatever I designed be built. I have my parents to thank for the support that they gave me to pursue being an engineer. I am from the generation wherein women who entered engineering schools and jobs were few and far between. The generation of women that were often the 'first' or early pioneers to enter an arena in which there were few women working and finding success. I was the first woman for many of my engineering experiences, the 'first girl' back in high school to take a drafting class, I was in the 3rd class at my college that accepted women into the engineering program, and the 'first woman' at my first job after my college in an engineering department of 50 men.

I think I entered the engineering field due to my aptitude for math and science in high school and frankly I did not want to be a teacher, although now I have the utmost respect for teachers and consider anyone who teaches a 'hero'. I also think it was part my rebellious nature that brought me to the engineering field. For those reasons engineering appealed to me.

I must say that that I am grateful that I became an engineer and value all the lessons I have learned, not just about HVAC or mechanical design, but more importantly the wide range of life experiences and extraordinary people that I have met, many of those who have mentored me, worked side by side with me and who I have learned from and will continue to learn from.

Q: What opportunities has being involved in ASHRAE provided?

A: I have appreciated the strength of the Boston ASHRAE Chapter and the wide range of programs that this Chapter has made available to its members and the Boston HVAC community of not just engineers, but also Owners, Contractors, Equipment Suppliers and the many diverse range of professionals who are involved or support our industry. I admire the energy and commitment of the people who keep this organization a vital part of networking as well as a source of information and learning. Kudos to the Boston Chapter and YEA providing the opportunity to bring together the many young folks entering the field of engineering. I would also like to say a heartfelt thank you for the immense effort that the ASHRAE Society has put towards being a leader in providing relevant and invaluable resources and information for engineering professionals, businesses, and organizations regarding the COVID-19 pandemic. ASHRAE has provided these resources that have been available to everyone this past year and will continue to evolve in the future. Thank you, ASHRAE!

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

A: I am proud of the many women I have known throughout the years that have worked in this field. I feel that as women, we bring a uniqueness of shared comraderies, supportive communities, and understanding in how we work and relate to the people we work with. I am thrilled and proud of the fact that at CMTA Boston, a third of our engineering staff are women engineers. I also love how many women I continue to see enter the fields of Architecture, Engineering and Contracting.



Terri in a mechanical room, 1994



Terri now, known as the "Mama Duck" to all the younger engineers in the office.

HISTORICAL NEWS

BY: ERIC EDMAN

I'll say a bright and cheery hello and happy Spring to all. I imagine we are all looking forward to reaching mass vaccination and a returning to our previous lives of freedom. Covid sure has made me appreciate everything differently.

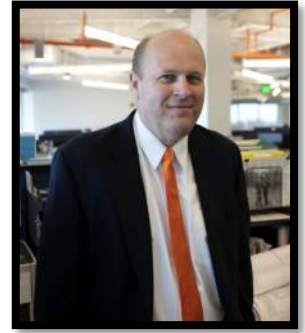
What used to be a simple family birthday party now requires much more thought and planning. It all adds to family challenges, which adds to stress and all sorts of things.

Despite all the gloom and doom seemingly spread by every media outlet, I continue to see and hear of a lot of good will coming from the adversity posed by the worldwide pandemic. People are going way out of their way to help others. I am one of them; I help the homeless and am very proud of it.

I also wanted to stop for half a minute and really thank all the brave men and women who put on a uniform every day and put their lives on the line for all of us. If you know someone who is one of those front line workers tell them that what they do is appreciated by a way too silent majority.

I will say goodbye to winter, good riddance to Covid, and hello to spring. I do look forward to vaccine distribution and a return to life as we were accustomed. May you all benefit from a healthy spring and 2021.

Thanks as always for supporting ASHRAE and thanks for supporting history as well.
Eric, c001his@ashrae.net



Eric Edman
Historian

Presidential Award of Excellence



Boston Chapter - 2020-2021

Chapter Members	Membership Promotion	Student Activities	Research Promotion	History	Chapter Operations	Chapter Technology Transfer	Government Affairs	Electronic Communications	YEA Points
<u>1000</u>	<u>1020</u>	<u>750</u>	<u>645</u>	<u>280</u>	<u>760</u>	<u>200</u>	<u>250</u>	<u>580</u>	<u>875</u>

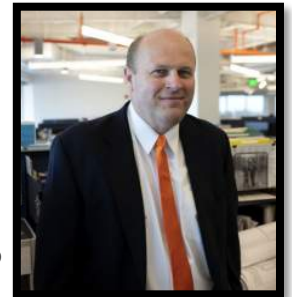
History Special Feature

By: Eric Edman - BR+A

This month I want to take you on a journey back through time, hop on the way back machine with me. Back to 1895 or thereabouts, a time when our forefathers were starting to organize a society of engineers. There was one major engineering project going on right here in bean-town, something big. I bet few of you knew Boston had the first subway in the nation! I was aware of this from prior history articles but I did not know of the other firsts in America related to building subways. A few examples are the invention of the pile driver and the electric motor.

Boston had a traffic problem in 1894. Imagine that. People complained even back then about traffic. Getting around at rush hour on your horse and buggy or on foot was time consuming. Forget about missed emails and text messages to distract you. I'd love to go back and tell them that traffic does not get any better! The 1890's was the later part of the second phase of the industrial revolution. By this point, mankind had invented the electric motor as well as a new "thingamajig" called a pile driver. That thing that goes bam, bam, bam until you are driven nuts from the noise.

Boston was looking to ease traffic and their first step towards solving the problem was to form an exploratory committee. In 1894 about a dozen people went to Europe to see what could be done. They came back and bantered about the idea of building an underground train. London was looking into this as well as Paris, why not Boston? The idea seemed absurd to many and there were many who opposed the idea. Eventually they moved ahead and broke ground on a short, three-stop subway system. They built the tunnel differently from today, they used an open pit excavation, built and then covered. The fact that they could use a clean electric motor for propulsion for a train meant they did not need ventilation. The idea for open excavation was new and it saved lots of hand digging, money, and time. In September 1895 the first subway in America opened! It was the Park Street to Boylston Street section of what is now the Green line. The tunnel is still in use 125 years later. Imagine, some people could have taken the train to the first monthly meeting of ASHRAE. I'll doubt that really happened but it is a possibility as meetings were "in town".



Eric Edman
Historian

After a few years, the train use grew and grew. Expansion kept the committee busy planning. Eventually someone got the idea of connecting East Boston to North Boston and, voila, the first in the nation underwater train tunnel became a reality. Today, this is the blue line. I felt certain I would find out how this tunnel was ventilated. I was suspicious of one man in particular having a hand in ventilation. Recall my previous history special feature about our very own Boston native? Benjamin Franklin Sturtevant. I suspect that somewhere are the plans for the first tunnel ventilation system and they would be designed by an engineer here in Boston. The goal of writing this article was to learn and share neat things about tunnel ventilation. I did not find anything. Sorry folks, I was disappointed as well.

But, let's fast forward to today. What relates to all this? [The Big Dig](#) is somewhat fresh in our minds. Did you know it was, and still is the largest US transportation project in size and scope? It even beat out the Panama Canal! Crazy but true. Sure, we blew past the budget by a few billion dollars to add to the fun- we are very good at blowing budgets.

We should shift the focus to The Big Dig and ASHRAE. It was efforts by ASHRAE and the tunnel ventilation sub committee (TC5.9) within ASHRAE to secure a decommissioned vehicle tunnel in West Virginia for testing. The U.S. Department of Transportation gave ASHRAE the tunnel for some full scale fire tests and tunnel ventilation studies. You may have read these in [ASHRAE Journal](#).

The results of that research project (yes your research promotion donation dollars at work) advanced tunnel ventilation and trimmed hundreds of millions of dollars off the tunnel vent system design and construction costs. It even led to enhanced fire and life safety systems. Who else thinks about ventilation and life safety when you are in the Ted Williams tunnel?

Back to the train tunnels. As time went on, further developments continued to what we have today, the oldest and one of the largest urban rail systems in the country. Bostonians, you should be damn proud. The MBTA has its roots as far back as ASHRAE. The train tunnels under Boston are not ventilated with any elaborate system as are the modern highways with combustion fumes simply thanks to the advent of the electric motor for the train. It was "clean" propulsion after all.

I always like to thank some of the people who contributed to what we can enjoy. This time the thanks will go to the engineers who pioneered the electric motor for trains. Also those who advanced the pile driver (the railway is on a lot of filled land and needed piles) the steam powered excavation equipment, waterproof grout, advanced steel and about 100 other ideas that were put to use digging holes and filling them in with track and trains.

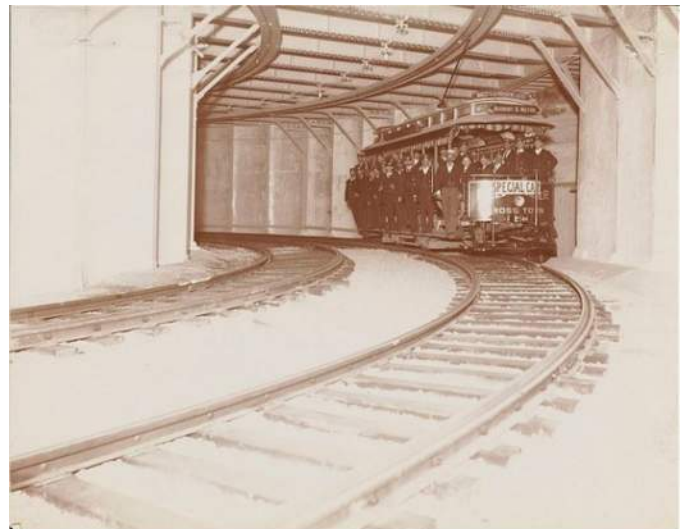
I could get super fortunate perhaps and find [Charlie on the MTA](#) and hope he will return when his fate is known. The song would never have been a hit if it were not for all this. I will enjoy this more the next time I am riding to the airport, an ASHRAE meeting, or someplace via the subway.

Special thanks to Rebecca Brooks who shared her written story on history of the first subway and talking to me via Zoom. We are lucky to have people who keep history alive.

Eric
c001his@ashrae.net



Subway construction at Park Street Station, Boston, Mass, circa 1895-97



Test run on the Boston subway at Park Street Station on September 1, 1897

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EVENTS CALENDAR

Date	Event	Location	Main Meeting
May 5, 2021	AEENE Meeting	Online	Retro-Commissioning to Improve Energy Efficiency
May 18, 2021	ASHRAE Webinar	Online	Improving K-12 School's HVAC Systems for IAQ and Infectious Aerosol Management
May 24, 2021	Golf Outing 1:00 pm	Granite Links	Details to follow!
May 27, 2021	DiA & YEA Networking	Online	Details to follow!

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!

- Mariana Liebman-Pelaez
- Mohammad Zabihi
- Tyler Drisko
- Dr. Issa Ramaji
- Greg Lamson
- Frank Caporale
- John Dun

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 c001mem@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 \$9,300 so far this year. We are looking forward to adding the money raised from our corporate sponsors!

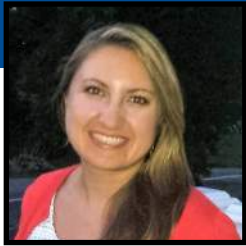
You can start helping ASHRAE reach our goals by donating online at www.ashrae.org/donate and enter *Boston Chapter* in the *Existing Fund Name* field. Let me know if you are interested in donating in another way other than online. We can always accept donations at upcoming meetings as well. Please contact 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



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