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### September Meeting

Tuesday September 13, 2022

#### Meeting Topic:

Steady on the Throttle

PDH Approved

Register [Here](#)

#### Presenter:

Mark W. Fly, PE

Fellow & Distinguished Lecturer ASHRAE

#### Where:

Hilton DoubleTree Hotel in Cambridge

400 Soldiers Field Road

Boston, MA 02134

#### Time:

4:30-5:30 BOG Meeting (all are welcome!)

5:30-6:15 Tech Session

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:

Allison Guttadauro

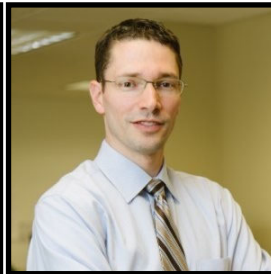
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## BOSTON CHAPTER OFFICERS 2022-2023



## President's Message

Hi Everyone,

Welcome back from your summer vacation from ASHRAE! I hope you are ready for another exciting and successful year! Our June planning meeting had some very interesting topics and ideas, so the Chapter is ready to bring them forward to the members. We are sure that you will enjoy what the Chapter has in store for you this year.

First and foremost, I would like to take this opportunity to thank William Cunningham for his hard work and service as the Chapter President last year. I would also like to thank the other Officers, Board of Governors, and committee members for all their hard work and dedication, which was proven at this summer's CRC, where Boston once again received several awards. I would also like to congratulate Lucas Rowe for being selected as Boston chapter's volunteer of the year for 2021-22.

We have successfully hosted two events this summer with a YEA focused Technical Tour of the Fenway Park Facilities in July and a ballgame against the Toronto Blue Jays hosted by the DiA and YEA committee in August. Both events were sold out within a few days, and we hope to bring more events of this nature to the membership this year.

Our opening technical meeting will be Tuesday, September 13. Mark W. Fly from AAON will be in Boston to present on Part Load Compressor Technologies and on how Failure, perseverance, and positive attitude lead to innovation and success. Mr. Fly holds the grade of an ASHRAE Fellow and is also recognized by ASHRAE as a distinguished lecturer. We look forward to welcoming Mr. Fly and hope everyone is ready to give him a good reception. Please visit [ashraeboston.org](http://ashraeboston.org) if you would like to sign up for the event.

For those of you that do not know me already, I look forward to formally introducing myself to as many members as possible this year. In the meantime, please email me at [vineet.nair@mail.ashrae.org](mailto:vineet.nair@mail.ashrae.org) with any questions, concerns, or suggestions for the Boston Chapter.

Thank you all,  
Vineet Nair



President  
Vineet Nair  
CRB

# Welcome New ASHRAE Boston Members

We welcome those that joined our chapter this summer!

- Daniel Cotter
- William Raczkowski Jr
- Hilary Forster
- Casey Furnas
- Robert Greaney
- John Arnold
- PJ Qvarnstrom
- Shwe Myat Myo Oo
- Catherine Mauch
- Justin Brelling
- Andrew Holt
- SungHwan Lim
- Mike Melvin
- Christopher Wilk
- Elence Chen
- Xiaoshi Wang
- Allen Shafii
- Mark Kenny
- David MacIntosh
- Khusbu Modi
- Wenyu Zhou
- Sean Gillis
- Scott Martino
- Jesse Zanghi
- Damon Bosetti
- Eric Alexander
- Michael Burke
- Elizabeth Venuti
- Jonathan Pulley
- Emily Ehlers
- Sydney McClellan
- Patrick Flaherty
- Jason Allison
- Ian White
- Patrick Kyne
- Aniruddha Doke
- Matthew Martineau
- Derrick Doncaster

## CRC Summary

The Boston Chapter.....

Pictures to follow.....

### Presidential Award of Excellence



### Boston Chapter - 2022-2023

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>990</u>	<u>1450</u>	<u>90</u>	-	-	-	-	-	-	<u>650</u>

## YEA Event - Fenway Park Facilities Tour

This past month, ASHRAE YEA members took a tour of Fenway Park and its mechanical facilities. The chiller farm shown, is hidden right behind the press box! Huge thanks to Donnie Gardiner for walking us through his facility. He is the man who keeps the oldest ballpark in America running!



### YEA Update

Thank you to all who participated in the ASHRAE "off season" YEA events. We learned a lot about the history of Fenway Park and the ins and outs of how the 1 man wrecking crew, Donnie, himself, keeps Fenway Park together. From planning fire escape plans for each event to making sure all the suites have cool air in the middle of the summer, Donnie does it all. We topped this off a couple weeks after with 50 YEA members attending a Red Sox game. A lot of fun was had and many connections were made. We look forward to another successful ASHRAE YEA year. Please contact Matt Hallock [matt@trumbullcampbell.com](mailto:matt@trumbullcampbell.com) or Mary Kandaras [Mary.Kandaras@burohappold.com](mailto:Mary.Kandaras@burohappold.com) if you have any interest in helping out or ideas for future events.



# SAVE THE DATE! PRODUCT SHOW 2022!

## The Product & Energy Show 2022: Thursday November 3, 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 will go live the day after our September meeting. 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.

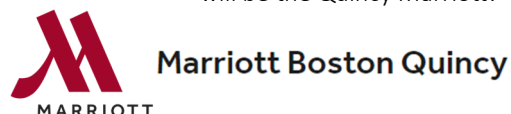
Additional details for the Product & Energy Show below:

**DATE** Thursday November 3, 2022; 3:00 pm to 8:30 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 8:30 pm  
 Appetizers will be provided and there will be a cash bar

### NEW LOCATION!

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

**LOCATION** Marriott Boston Quincy  
 1000 Marriott Drive  
 Quincy, Massachusetts 02169



### EXHIBITOR REGISTRATON

Exhibitors may register for up to 4 booths, each booth is 6' x 8' and costs \$1,100. 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.

### 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

**SEMINARS** ASHRAE has reserved the facility for the entire day. Rooms are available for seminars. Please contact ASHRAE if you are interested in providing a special seminar. An outline of the seminar will need to be submitted prior to approval. The seminars shall be educational and not commercial in nature.

### ATTENDEE REGISTRATION

A link for attendees to register will be available in September.

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

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,

Product Show Committee

Chair: Amy Gebhardt, c001bog1@ashrae.net

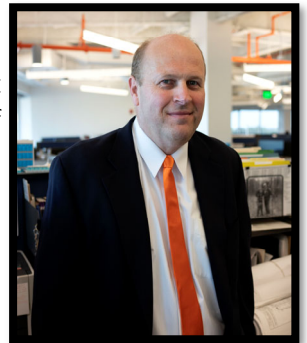
Co-Chair: Eric Edman, (617) 925-8325, (617) 548-7054, c001his@ashrae.net

## Historical News By: Eric Edman - BR+A

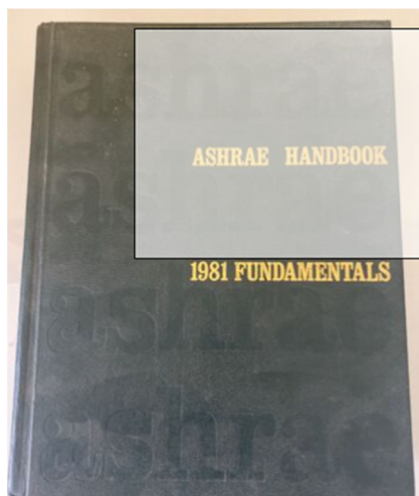
Hello and welcome to another fun filled season of ASHRAE.

For those who have asked when I joined ASHRAE, I was a 17-year-old starting college. It happened that one of our courses on energy estimating was based on ASHRAE. For the price of \$8, I became a student member and was sent the 1981 Edition of Fundamentals. I still have the book and have used it quite a bit as an engineer.

There is not a whole lot to report from the history desk. Summer tends to be like that. We, the core officers, are all about to head to New Hampshire for our first full return to a normal season at ASHRAE. We are ready to kick things off with the Chapters Regional Conference (CRC). It is at the CRC where the regional and national ASHRAE staff discuss their plans and visions for the coming season. This year, the National ASHRAE president will be with us!



Eric Edman  
Historian



The Bible of the Times (1981)

What happens at CRC you might ask? Well, all our officers attend special training meetings which have been either foregone or were held via Zoom for the past 2 years. It is at the CRC where I would meet with the other regional historians and the regional “boss”. We talk about our goals for the year ahead. As you could imagine, there are not a whole lot of changes to history from year to year. Especially when compared to something like government affairs. We do share tips on how to make our season better. My goal, as always, is to make history fun and exciting in hope that all of you appreciate the past. We have our share of history in this fair city. I do my best to share it.

In closing, I will wish you all well for the ending of summer and gearing up for fall. I always look forward to the increased traffic, including the trucks stuck under the bridges on Storrow Drive. With the end of virtual meetings, I can only say how much I look forward to seeing all of you at our monthly meetings again.

Until then...see you at the beach. Please pass the sunscreen.

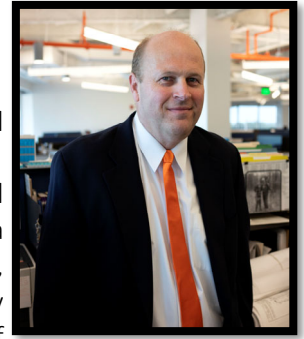
All the best,  
Eric

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## 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, Jake O’Donnell, at [NorthEastAire@gmail.com](mailto:NorthEastAire@gmail.com) if you have questions or want to purchase an employment ad.

## History Special Feature Eric Edman



Eric Edman  
Historian

For the past few years, the special history feature articles have focused on buildings and people who had major influence on our HVAC&R industry.

Someone asked me what was “big” news when I first entered the industry. I have figured it out. It was so big that I didn’t even really think about it. What was it? Well, there is not a day that goes by where we do not hear about global warming. The icebergs are melting, record heatwaves across Europe, somebody even drained the Colorado River. It may surprise you that even 60 years ago, people began researching the causes and impact of global warming. (Your donations to research REALLY are effective). The result was an incredible collaboration that resulted in a landmark document, the 1987 Montreal Protocol.

We could read all about the details, but what started this was a pair of scientists studying the effects of CFCs (refrigerant gases) on the atmosphere. What came from their research was evidence that these compounds broke down in the sky, causing harm to the ozone layer. They believed holes that would form in the ozone layer would have disastrous effects upon life on the earth. Well, it did. What came from this was probably the most remarkable thing since the creation of the United Nations. For the very first time every member state agreed to and signed the document which set forth a timeline by which we agreed to reduce and end the use of CFCs. Some of the most efficient refrigerants had to go away.

What resulted in that legislation was a reinvention of the American air conditioning business from bow to stern. I must admit, I was sort of opposed to this, as people normally oppose change. Change is not comfortable but many times changes are good. Before we knew it, we wondered how we did it back then and why were we so seemingly ignorant. Well, I guess you could say, you don’t know what you don’t know right now. We all learn. We have been learning since 1987 and our industry has risen to many of these challenges. Of course, it has been painful. I think any great endeavor always is. I try to think what the earth will be like for my great-great-grandchildren whom I will never meet.

The Montreal Protocol was originally signed in 1987 by all 190 member states. It has been amended five times since then: London 1990, Copenhagen 1992, Montreal 1997, Beijing 1999, and Kigali 2019. Each amendment must be ratified separately. It is still one of the few documents ever fully ratified including the amendments. What we can say from all this is for the past two years, there has been a measurable reduction in the size of the ozone hole. That friends, is a BIG deal.

Our industry still has a long way to go, but we really are a small percentage of the problem. Nevertheless, anything done is moving in the right direction for all of us. We have had a lot of growing pains to overcome. I’ll go back to thinking about those great-great-grandkids and hope we are all doing the right things.

Until our next meeting, I hope you stay cool.

Eric,  
Boston ASHRAE History  
c001his@ashrae.net

**HFCs ARE POWERFUL GREENHOUSE GASES**

THEY ARE USED IN **REFRIGERATION & AIR-CONDITIONING**

**USE IS GROWING RAPIDLY**

AS THEY REPLACE OZONE-DEPLETING SUBSTANCES BEING PHASED OUT BY THE MONTREAL PROTOCOL

**1.6 BILLION** AIR-CONDITIONING UNITS WILL BE INSTALLED WORLDWIDE BY 2050, MAKING THE PROBLEM EVEN WORSE

LUCKILY, SUSTAINABLE AND ENERGY-EFFICIENT ALTERNATIVES ARE AVAILABLE, INCLUDING NATURAL REFRIGERANTS

**MONTREAL PROTOCOL** IS THE WORLD'S MOST SUCCESSFUL ENVIRONMENTAL AGREEMENT

**COOLING WITH HFCs**

**NOT SO COOL ANYMORE**

AN AMBITIOUS AGREEMENT TO REDUCE HFC USE VIA THE MONTREAL PROTOCOL CAN AVOID **100 BILLION** TONNES OF CO<sub>2</sub>e BY 2050 & UP TO **0.5°C** WARMING BY 2100

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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
September 27, 2023	YEA/DiA Joint Social	TBD	Details to follow.
October 11, 2022	October Meeting	Embassy Suites Waltham	Topic: DECARBONIZATION OF EXISTING BUILDINGS Presenter: TBD
November 3, 2022	Product Show	Marriott Quincy	Details to follow.
December 13, 2022	December Meeting	TBD	Topic: HEAT EXCHANGERS Presenter: Katie Putnam
January 10, 2023	January Meeting	Embassy Suites Waltham	Topic: LIQUID SUBCOOLING Presenter: TBD
February 7, 2023	February Meeting	TBD	Topic: COOLING TOWERS Presenter: Jeff Scogland
February 21, 2023	YEA/DiA Joint Social	TBD	Details to follow.
March 14, 2023	March Meeting	TBD	Topic: GEOTHERMAL SYSTEMS Presenter: Andrew K. / Anthony T.
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: TBD Presenter: TBD
May 2023	ASHRAE Golf Outing	Granite Links	Details to follow.
June 2023	YEA Event	TBD	Details to follow.

[Boston ASHRAE Facebook](#)



[Boston ASHRAE Twitter](#)



[Boston ASHRAE LinkedIn](#)



Boston Monthly	ASHRAE Society— <a href="#">Complete List</a>
Boston Chapter	YEA Events
DiA Events	Other Societies

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

