



NorthEastAire

Volume LVI, Issue No. 4

February 8, 2024

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February Meeting

Tuesday February 13, 2024

Meeting Topic:

Airflow Management Best Practices for Data Centers

Tech Session:

No Tech Session this Month

Where:

Embassy Suites Waltham
550 Winter Street
Waltham, MA 02451

Time:

5:00-6:30 Networking
6:30-7:00 Plated Dinner
7:00-8:00 Main Meeting

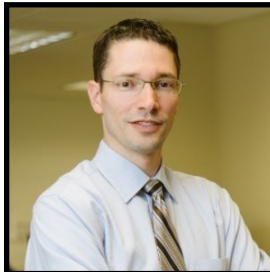
Cost:

Members—\$50
Non Members—\$60
ASHRAE Student Members with RSVP—Free

Register: ashraeboston.org



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BOSTON CHAPTER OFFICERS 2023-2024



President's Message



I am thrilled to announce that the Fisher family has expanded by one! Our baby boy, William "Liam" McKechnie-Bryant Fisher, was born on January 28th. Liam was born at an impressive length of 23 inches and weighed a healthy 8 pounds and 13 ounces. My wife, Chaney, is recovering well, and our two-year-old son, Charlie, is adapting to his new role as a big brother. We feel incredibly blessed and want to express our sincere gratitude for all the well wishes and support we have received during this exciting time.



President
Will Fisher
FIA, Inc

-----Back to ASHRAE ☺-----

During the January Tech Session, Huck Montgomery (Director of Policy & Strategy at National Grid) held a discussion and survey on the Massachusetts Clean Heat Standard (CHS). If you missed the meeting and are not familiar with the standard, I encourage you to learn more about it. As HVAC experts, it is our responsibility to be a part of these discussions. For those who are not familiar with ASHRAE's Building Decarbonization position, you can find a two-page summary at the following link. [PPIB Building Decarbonization](#)

Dan Nall gave the main presentation titled "Energy Policy from an Engineering Perspective," which received excellent reviews. Energy policy will continue to be a significant topic of conversation among HVAC engineers, impacting everything from system design and compliance to innovation and the environment.

In February, we are excited to welcome Dr. Kishor Khankari, who will be the fourth ASHRAE Distinguished Lecturer of the society year. He will present "Airflow Management Best Practices for Data Centers."

We are constantly seeking new members to join our team. If you're interested in contributing, please don't hesitate to reach out to any of our board members, who can be found in our newsletter, or you can contact me directly. Volunteering with ASHRAE provides more than just an opportunity to give back to our industry; it's also a chance to connect and network with peers, all while enhancing your personal and professional growth.

We greatly appreciate your ongoing support for ASHRAE and the ASHRAE Boston Chapter. We look forward to seeing you at our upcoming events.

Will Fisher
ASHRAE Boston Chapter President 2023-2024



Student Activities Update

We hope all of our student member have a had a good start to their spring semester! Please remember that the **application for our annual Cheryl Rossini Future Engineers Scholarship is live on our website!** The scholarship application deadline this year is **February 15, 2023!**

You can also visit the society scholarship page for the same information and other scholarships awarded by other branches of ASHRAE. Please contact us with any questions.

Noah Stevens c001sa@ashrae.net

Grace White c001sa@ashrae.net

The Cheryl Rossini Future Engineers Scholarship is named in fond memory of Cheryl Rossini, a fixture in the Boston Chapter who held many positions, including chapter president, and was the student activities chair for the ASHRAE Boston Chapter for over 10 years. Please visit the [ASHRAE Boston Chapter website](#) for more details.

February Meeting

Airflow Management Best Practices for Data Centers

Airflow management within data centers is crucial for proper cooling and energy efficiency of data centers. Proper selection as well as proper placement of various data center equipment such as CRACs, perforated tiles, and racks play an important role in airflow distribution and cooling performance of data centers. This presentation will focus on basics of data center cooling and principles of air movement in data centers and show how it can be used in assessing and improving the cooling performance of their data centers.



Dr. Kishor Khankari

GBCI Approved | 1 CE Hour | 0920014296

AIA Approved | 1LU | KHANKARIO4

Kishor Khankari, Ph.D.

Kishor Khankari, Ph.D. is President at AnSight LLC in Ann Arbor, MI. He provides engineering solutions and insights through Physics based simulations and CFD analysis. Kishor has several years of experience in providing optimized HVAC solutions to a wide variety of applications involving external wind engineering, plume dispersion, smoke exhaust, displacement ventilation, natural ventilation, radiant heating and cooling, and indoor air quality and thermal comfort optimization for office spaces, patient rooms, operating rooms, cleanrooms, justice facilities, data centers, and warehouses. Dr. Khankari has developed a patented technology of a wind band design of exhaust fan assembly systems. He has developed several easy-to-use analytical software tools which are regularly used by design engineers in a variety of companies including those in HVAC industry, critical facilities, and automotive industries.

A noted expert in his field, he has a Ph.D. from the University of Minnesota and has been regularly published in several technical journals and trade magazines. Dr. Khankari has delivered more than 125 DL presentations worldwide on topics related to design and optimization of HVAC systems and made several presentations at various technical conferences and professional meetings.

Dr. Kishor Khankari is a Fellow member of ASHRAE. He is currently serving on ASHRAE Board as a Director-at Large. He is a recipient of Louise & Bill Holladay Distinguished Fellow Award, ASHRAE Exceptional and Distinguished Service Awards. He is the past President of Detroit ASHRAE Chapter, past Chair of ASHRAE Technical Committee TC9.11 Clean Spaces, and past Chair of Research Administration Committee (RAC). He is a voting member of Technical Committee TC9.10 Laboratory Systems and TC5.3 Air Distribution. He is a voting member of Standards committees SPC241: Control of Infectious Aerosols and SPC129: Air Change Effectiveness. He is also leading a Multi Task Group (MTG) on Air Change Rates.

ASHRAE Winter Conference Update

The ASHRAE Winter Conference took place in Chicago from January 20-24. This year’s conference hosted nearly 3,800 people, and the AHR Expo that runs concurrently had 1,860 exhibitors. We hope that all of our members who had the opportunity to attend had an enjoyable and educational time. At the conference, the Boston Chapter received a couple outstanding recognitions:

A Big Congratulations to Sarah Maston!

At the ASHRAE Winter Conference in Chicago, Sarah Maston was nominated for position of ASHRAE Treasurer! In July, she will join the Board of Directors as Treasurer, and in July of 2026, she will serve as the ASHRAE President for a year.



This is a tremendous and well deserved honor. Sarah has been volunteering her time to ASHRAE for 25 years, including serving on the Board of Directors as a Director and Vice President. She has been an invaluable resource for our Boston chapter as well.

National First Place Award—Liberty Mutual

Announced at the ASHRAE Winter Conference, our chapter’s ASHRAE Technology Award nomination—Liberty Mutual—has officially won a National First Place Award in the commercial building category!

Liberty Mutual’s campus at 157 Berkley has sustained a 60% decrease in EUI over the last 8 years, translating into a \$4.5 million utility cost savings. This impressive feat was largely achieved through low cost and minimally invasive controls strategies upgrades.

Congratulations to the whole team!

Jake Schneider (LM), Andrew DelPrete (LM), Dave Ellsworth (Siemens), Jennifer Paige (CMTA), Terri Laurence (CMTA)

Learn more about the project here: <https://www.cmta.com/results/case-studies/liberty-mutual-boston>



ASHRAE is organizing the HVAC Design Level I and Level II training in Hartford, CT on March 4-8, 2024.

These trainings are designed to enhance your knowledge and skills in HVAC system design, making them ideal for recent graduates, engineers new to the HVAC field, and experienced professionals seeking to deepen their expertise.

Visit the HVAC Design Training webpage at www.ashrae.org/hvactraining for more details on the value of the training.



ASHRAE HVAC DESIGN TRAINING Coming to HARTFORD, CT

▶▶▶ March 4-8, 2024

SPECIAL ANNOUNCEMENT:

is excited to announce that registration is now open for the
2024 Product Show.

INSIDE BOOTH & OUTSIDE DEMO LOTS AVAILABLE

[Register Now!](#)

Booths: You may register for up to 4 Booths. In the registration form, please list your 1st, 2nd and 3rd choices. We will make every effort to accommodate your primary booth location request. However, Booths are reserved on a first-come, first-serve basis. Payments online **MUST** be received to reserve available booth locations. To access the booth layout, please click [HERE](#).

Outside Demo Lot areas will be available again this year. Purchase of an outside demo lot includes (1) inside booth, additional inside booth must be reserved separately. Please list your 1st and 2nd choices. To access the trailer layout, please click [HERE](#).

Tickets

\$1,200.00	1 Booth
\$2,300.00	2 Booths
\$3,500.00	3 Booths
\$4,600.00	4 Booths
\$3,000.00	Trailer #2 or Trailer #3 (Includes 1 Booth)
\$2,700.00	Trailer # 1 (Includes 1 Booth)

Payment must accompany the online application. First come, first served.

The deadline for registration is February 23rd, 2024

If you have any registration questions please contact:

Vineet Nair

Chair, Product Show

Ph: 347-567-6096

Email: vineet.nair@mail.ashrae.org

Welcome New ASHRAE® Boston Members

We welcome those that joined our chapter in the last Month!

- Marc Blum
- Xingtong Guo
- Rachel Hurley
- Cole Manning
- Mayuri Bhalerao
- Jinyoung Seo
- Travis Tran
- Weina Li
- Bill Cleary
- Christopher Mayforth
- Michael Sieminski
- Kevin Nickerson
- Pdraig O'Donnell
- George Kuegler
- Jeff Mills
- Wyatt Sluga

We are seeking any older printed Northeastaire Newsletters of any year. We would be grateful for your donation. We intend to scan these and save them for historical purposes. We can arrange to pick these up or meet somewhere to make an exchange. Please call, or email. We thank you in advance.

Contact:
Eric Edman
eedman@brplusa.com
W 617-925-8325
C 617-548-7054

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, Josephine Wendroth, jwendroth@cmta.com, if you have questions or want to purchase an employment ad.

Presidential Award of Excellence



Boston Chapter - 2023-2024

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>1057</u>	<u>1500</u>	<u>740</u>	<u>695</u>	<u>525</u>	<u>2880</u>	<u>2250</u>	<u>900</u>	<u>1340</u>	<u>1200</u>

Historical News

Eric Edman—Chapter Historian



Eric Edman

How many of you are interested in History?

Well, if you are, you have an opportunity to put that interest to good use.

I am not running for re-election in the fall of 2024. The historian’s position will become vacant.

I have served for over 10 years- and longer than any other historian to my knowledge. It has been wonderful to be your historian.

If you are interested, please step forward. Of course, whoever fills the role will have my eternal support. You may find me continuing to write special historical features on occasion. The fun part of this is digging into our past and finding out things I never knew, or knew little about. Thanks for all the opportunities.

All the best and see you at a meeting soon.

Eric

Research Promotion Committee Update

Thank you to the following individuals who donated to ASHRAE Research Promotion in December and January:

- Dr. James Becker
- Herman Chang

Since 1919, ASHRAE has supported research to improve the quality of life. ASHRAE Research impacts the industry by improving the way HVAC&R systems work, how they are applied, and allow development of technical information to create standards and guidelines, which serve as the basis for testing and design practices around the world.

Your donations support this research. If you would like to donate, go to ashrae.org and click Make a Gift. Be sure to choose Boston in the ASHRAE Chapter box.

Lance Brown

2023-2024 Research Promotion chair

History Special Feature

By: Eric Edman - BR+A

Mid-Winter greetings to you,

In the past, we “dug up” some old sayings and where they came from. At the request of many, here are a few more to “Whet your Whistle.”

I will hope to make you smile, and always look forward to seeing you in person at one of our monthly meetings.

“Close, But No Cigar”

Back in the 1800s, you'd hear this phrase if you were a loser at the carnival. Common prizes back then were cigars, so a smug carnie would use the phrase on you if you were close to winning but still lost and won't be getting a prize.

“Put Your Best Foot Forward”

We know that this phrase means to try your best and show others the best version of yourself. The first recorded use of this phrase comes from 1613. The phrase was originally used to instruct gentlemen to put their best foot forward when taking a bow so they wouldn't fall over.

“In the Nick of Time”

In the 18th century, debtors would use sticks to keep track of how much money and interest was owed. They'd carve a new notch (or nick) on the stick every day for interest. If you paid your debt before a new nick was made, you didn't have to pay the interest for that day. Today, it just means something was done right before it was too late.

“Burning the Midnight Oil”

This phrase means that you're staying up late and working hard on something. Back before electricity, candlelight or lamp oil was used to light up a room. When you stayed up late for work, you were literally burning the oil at midnight.

“Jumping On the Bandwagon”

You would use this phrase to describe someone who is only doing something because everyone else is doing it. In the mid-1800s, circuses would go around town before setting up. Bandwagons would lead the parade and politicians rented them to talk to voters as they passed by. Back then, the phrase was “don't jump on the opponent's bandwagon,” meaning you shouldn't go along with whatever is popular at the time.

“Get Off Your High Horse”

Cars weren't always around, and horses used to be the best form of transportation. Owning a horse was a sign that you were part of the upper class. The phrase “get off your high horse” is asking the uppity horse owner to jump off their horse, humble themselves, and lose the entitlement.

“As Mad as a Hatter”

You remember the Mad Hatter from *Alice in Wonderland*, right? This is based on a real issue that was common for those who made hats in the 17th and 18th centuries. One of the side-effects of making felt hats was mercury poisoning, which can cause you to go insane (or mad).

“Dressed to the Nines”

In the 18th century, if you wanted a suit then you had to have one made. “Dressed to the nines” refers to the nine yards of fabric it took to make a whole suit, including the vest and jacket. Today, it just means someone is dressed really fancy.

“Carbon Copy”

Technology has made a lot of these phrases seem old-fashioned. “Carbon copy” refers to a time before copier machines. Copies used to be made by sliding carbon paper between the original document and blank paper, which transferred the contents. Today, it means “exact copy.” Fun fact: the little “cc” in e-mails stands for “carbon copy.”

“Blackballed”

You'd recognize this phrase when it's used to describe someone who got “blackballed” from Hollywood. It means there was a secret, unanimous vote to reject a particular person. In 18th century social clubs, a committee voted on who could be a member. An anonymous vote using colored balls were used for ballots, so being “blackballed” meant you were completely rejected.

“At the Drop of a Hat”

If you do something at the drop of a hat, it means you acted “without delay or good reason.” However, in the 1800s, it was to signal the start of a race. A hat was thrown in the air and when it dropped to the ground, that was the sign to take off.

“Pulling Out All the Stops”

This phrase means you're trying everything you can and giving your best effort. It became popular in the late 19th century after organ players would remove the stops from every pipe on an organ. This would allow the organist to play at the highest possible volume.

“Straight From the Horse's Mouth”

When someone says this phrase in today's time, it means that you're getting information from a reliable source. The original definition isn't too far off, either. It comes from the early 1900s and describes the practice of examining a horse's teeth to find out its general age and health. If someone trying to sell you a horse was lying about the quality, you could just look in its mouth and see for yourself.

“Hold A Candle To”

You would use this phrase to describe something inferior. For example, Katy Perry can't hold a candle to Madonna. The modern definition is much different than the original. This phrase originates in the 17th century when apprentices had to hold candles up at night so their teachers could see.

“A Bird in the Hand is Worth Two in the Bush”

You've probably heard this phrase before and been confused by what it meant. It means that it's better to be happy with what you have than risk everything by trying to get more. Basically, don't be greedy. It was first used in the 15th century as a well-loved English proverb.

“Hair of the Dog That Bit You”

This is a popular term for a hangover cure and means that you should try drinking some of what you had last night to get rid of the sick feeling (which is a bad idea!). The original phrase is from medieval times and is about rabid dogs. The idea was that applying hair from the dog that bit you to the wound would make it heal quickly.

“Busy as a Bee”

We can blame Chaucer for giving us the phrase “busy as a bee.” He first used it in *Squire's Tale* from the 14th century classic *Canterbury Tales*. Back then, it had the same meaning as it does now. The saying means that someone is working as hard as bees do (and bees are good workers.)



Eric Edman
Historian

History Special Feature...cont.

“Apple of My Eye”

The meaning of this phrase has changed quite a bit. Today, the “apple” is something that you cherish above everything else, whereas it used to just refer to the pupil of your eye. King Aelfred of Wessex used this phrase for the first time in 885 A.D.

“A Stone’s Throw”

Here’s another phrase that kept the same meaning throughout the years. “A stone’s throw” refers to a short distance. It’s not a real measurement, but if you think about how far someone can throw a rock then you’ve got a good idea. It was first used in early versions of the bible from the 16th century.

“Bring Home the Bacon”

In 1104, a young couple from Great Dunmow, Essex impressed the leader of Little Dunmow with their love for each other so much that he gave them some bacon. Today, it refers to the primary moneymaker in a household as the person who “brings home the bacon,” or money.

“A Baker’s Dozen”

Did you know a baker’s dozen has 13 units in it instead of 12? This is because of laws that would have bakers be fined or worse- flogged- for selling “underweight” bread. To avoid this, bakers would give an extra loaf of bread to avoid being accused of shorting people.

“The Old Ball and Chain”

A ball and chain is the weighted device used to keep prisoners from running away. These tools were common in the early 19th century, which is also when the phrase came about. It’s a rather rude way to refer to someone’s wife and doesn’t actually have anything to do with being in jail.

“Barking Mad”

This one has two interesting origins, so we’ll just let you pick your favorite. The most likely meaning is a reference to rabid dogs who won’t stop barking in their frenzy. The other reference originates from the east London suburb, where an insane asylum was located, some people would often bark like dogs.

“Time to Face the Music”

This is an old military term. Back in the early American colonial era (1600-1700s), disgraced military officers had to face a drumline when they were discharged. While the bad officers were literally facing the music, today it means to face the consequences of our actions.

“Frog In Your Throat”

You’d recognize this phrase to say you have a sore throat. However, in the late 19th century, it was a reference to a cure for sore throats. “Frog In Your Throat” lozenges were simply a branded cough drop that got turned into a well-known phrase. The Simpkins Company from England made these for the RAF. They became popular with American aviators flying from the UK over Germany in WW2. Who would have ever thought where this saying came from?

“Bite the Bullet”

In the horrible days before anesthesia and pain killers, surgery was a lot more brutal. It was first recorded being used in the late 19th century and refers to soldiers biting down on bullets to stop them from screaming out in pain while being operated on. For us, this phrase means to go through something necessary but unpleasant.

“Chow Down”

The origin story for this phrase is a little sad. It was first used by the U.S. military during WWII and was a distasteful slang term for food and came from the Chinese’s reputation for eating dog meat. A Chow is a Chinese breed of dog, so you can see where the term came from. Today, the phrase just means to eat up and enjoy your meal.

“Basket Case”

This is another example of a military saying. In today’s time, a basket case is someone crazy, stressed out, or unable to cope with matters. During WWI, it referred to soldiers who lost their arms and legs and had to be carried around by others in a litter or “basket.” I have met some amazing veterans who have lost legs and/or arms and can just be amazed at what they have endured for our country.

“A Man After My Own Heart”

Here’s another phrase with biblical origins. The King James Version Bible, in Samuel 13:14, states that the Lord “sought him a man after his own heart.” In other words, someone who feels and thinks like you, keeps the same opinions, and has similar morals. The meaning hasn’t changed much over the years.

“Fly Off the Handle”

Thomas C. Haliburton was an American writer who coined this phrase in the mid-1800s along with “won’t take no for an answer” and “ginger up.” This phrase comes from the way an ax head will literally fly off the handle if it’s loose and you swing too hard. Today, it means that someone has overreacted, usually in anger.

“Fly By the Seat of Your Pants”

This funny phrase means that you’ve decided to do something without thinking it through, having a good plan, or any useful tools to help you. It was inspired by Douglas Corrigan’s 1938 flight from the USA to Ireland. The aviation term was coined after Corrigan went the wrong way and had to make up his own plan to get home.

“It’s No Use Flogging a Dead Horse”

Luckily this one doesn’t come from animal cruelty traditions. It originated in the 17th century as a reference to a worker who had been paid in advance and spent the money before they even started their work. It meant that it was useless to try and get that person to work for the money they already spent. Today, it means it’s no use to waste time on an effort that won’t have an outcome.

“Gee Whiz”

This phrase originally came out in the late 19th century as a term for “Jesus.” If you’re from the Southern United States, you grew up hearing that you shouldn’t take the Lord’s name in vain. Creative curses like “Gosh!” or “Golly!” came out as an effort to avoid just saying “God!” “Gee Whiz” is another one of those replacement curse words.

“Goody Two-Shoes”

This phrase comes from the classic Cinderella story, called *The History of Little Goody Two-Shoes*. In the late 18th century story, a poor orphan only has one shoe and is given two shoes as a reward for her virtue by a rich man. For us in today’s world, a “goody-two-shoes” is so nice and well-behaved that it’s annoying.

“Saved By the Bell”

No, this phrase didn’t come from the 1990s sitcom. It doesn’t even originally have anything to do with school. This saying came out of the late 19th century as boxing slang. It refers to a boxer who is in danger of losing the round but is “saved” from losing by the bell marking the end of a round.

“Roll Up the Window”

This one isn’t as old as the others, but a lot of kids today would still be confused by this phrase. It comes from when car windows had the handle to literally roll up the car window. Now it’s as easy as pushing a button to “roll up the window.”

“Whet Your Whistle”

This is one of my favorites and means to have an alcoholic drink. Cheers to all of you who inspired me yet again to dig into our history.

SAVE THE DATE

58th Annual Golf Outing at Pinehills Golf Club on May 13th

May 13th is fast approaching. I know we have a lot of excited people out there going to sign up for this year’s ASHRAE Golf Tournament at Pinehills. We will have all 36 holes of golf rented out for this great get together. As always, if there is any one that would like to help out on the day of the event, please reach out to me (mhallock@apav.com) to put your name on the list. This tournament is not successful without the volunteers who step up to make the day go by smoothly.



We are adding some sponsorships to the event this year, so please take a look at the below types, amounts and cost of each type of foursome that you can purchase. We will have 20 raffle prizes purchased on behalf of the companies who purchase the Hole and Raffle Sponsorship, but if there are any other companies willing to donate raffle prizes, they will be accepted.

Type of foursome	Count	Cost
Basic Foursome	14	\$ 1,500.00
Early Sign Up	22	\$ 1,500.00
Hole and Raffle Sponsorship	20	\$ 2,000.00
Longest Drive	4	\$ 2,000.00
Closest to the Pin	4	\$ 2,000.00
Breakfast Sponsor	1	\$ 5,000.00
Dinner Sponsor	2	\$ 6,000.00
Mini Putt Sponsor	1	\$ 4,000.00
Beer and Wine Sponsor	2	\$ 6,000.00
Cigar Sponsor	2	\$ 4,000.00

Thanks, Matt

Government Affairs Committee Update

ISO-NE forward power prices peak in January, sufficient capacity expected

S&P Global Commodity Insights. December 11, 2023.

ISO New England's winter power demand is **estimated to peak at 20,269 MW** during average conditions and 21,032 MW under colder than normal temperatures, an increase of 1.3% from last year's forecasts, with a total of 33,374 MW of total resources available to cover projected peak load, the ISO said Dec. 4.

Boston Finalizes Regulations To Ensure Large Buildings Achieve Carbon Neutrality by 2050

Beacon Hill Times. January 4, 2024.

Buildings in Boston account for nearly seventy percent of citywide greenhouse gas emissions. BERDO buildings are responsible for five percent of the building stock in Boston and account for over forty percent of the total greenhouse gas emissions.

Looking for high quality co-op/intern help?

Three HVAC students graduating this May/June from Massasoit CC (Blue Hills Campus) are looking for co-ops/internships. **They have 150 hours of co-op/internship requirements to complete by May.**

Each of the three students are local Mass natives from Attleboro, Quincy, and Foxboro.

If you need further information you can directly contact the HVAC department head:

Thomas Leahy, [tleahy2@massasoit.mass.edu](mailto:t Leahy2@massasoit.mass.edu)



WE'RE HIRING!

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- Senior Electrical Engineer
- Senior Mechanical Project Manager

Science & Technology Market

- Senior Mechanical Engineer/Project Manager

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COME WORK WITH US!

XOVIS

FIRST



Battle ends May 1, 2024!



T-SECOND

BATTLE RANKING UPDATE!

BATTLE RULES:

When: September 12, 2023 - May 1, 2024

Who wins: The firm/company/organization with the most new-member registrations. (If there is a tie for first place, the winner will be chosen randomly.)

The prize: Recognition at May meeting, (2) Red Sox tickets, and potential bonus prizes.

A hearty thank you to our new and returning sponsors for 2024. Our corporate sponsorship program helps the chapter meet their research & promotion goals and supports chapter activities.

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GOLD SPONSORS

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 FITZMEYER & TOCCI ASSOCIATES, INC.  SIEMENS Boston Branch  Frank I. ROUNDS COMPANY  viega
 S. J. GINNS ASSOCIATES HEATING & AIR CONDITIONING EQUIPMENT  J.S. FLEMING ASSOCIATES INC.  EMERSON SWAN A Swan Group Company  BURO HAPPOLD

EVENTS CALENDAR

Date	Location	Event Information
September 12	Gillette Stadium	Mechanical Tour and Dinner
October 17	Embassy Suites Waltham, MA	The Future of Refrigerants
November 8	PKL South Boston	Pickleball Event
November 14	DoubleTree Cambridge, MA	Engineers are the Physicians of the Future
December 12	Embassy Suites Waltham, MA	Joint Meeting w/ ASPE The Speech Improvement Company
January 9	DoubleTree Cambridge, MA	Energy Policy from an Engineering Perspective
February 13	Embassy Suites Waltham, MA	Airflow Management Best Practices for Data Centers
March 13	DoubleTree Cambridge, MA	Joint Meeting w/ AEE
April 9	Quincy Marriott Quincy, MA	Product Show
May 13	Pine Hills Plymouth, MA	ASHRAE Golf Outing
June 11	TBD	Installation Of Officers

[Boston ASHRAE Facebook](#)



[Boston ASHRAE](#)



[Twitter](#)



Boston Monthly

YEA Events

Joint Meetings

Special Events

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

