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April Meeting

Tuesday April 12, 2022

Meeting Topic:

Distributed Pumping Solutions
PDH Pending

Register [Here](#)

See page 2 for additional details

Presenter:

Chris Ireland

Where:

Embassy Suites Waltham
550 Winter Street
Waltham, MA 02451

Time:

4:30-5:30 BOG Meeting (all are welcome!)
5:30-6:30 Registration & 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

Meeting Manager:

Will Fisher
c001vp@ashrae.net

Technology Awards Program

Effective energy utilization is just one of several aspects of facility and building design. The ASHRAE Technology Awards program recognizes, on an international scale, successful applications of innovative design, which incorporate ASHRAE standards for effective energy management, indoor air quality, and good mechanical design.

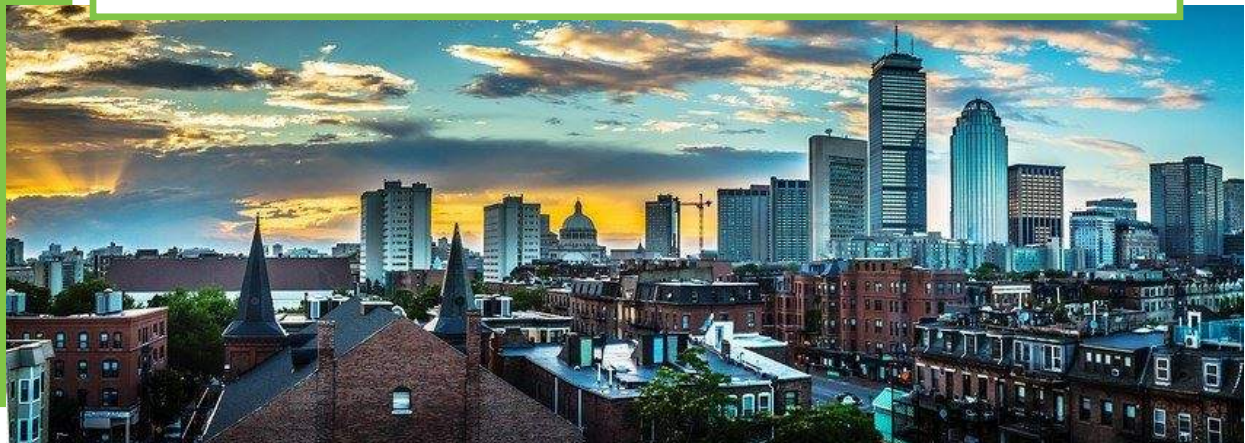
The purpose of the ASHRAE Technology Awards is threefold:

- To recognize ASHRAE members who design and/or conceive innovative technological concepts that are proven through actual operating data.
- To communicate innovative systems design to other ASHRAE members.
- To highlight the technological achievements of ASHRAE to others, including associated professionals and societies worldwide, as well as building and facility owners.

All current members of ASHRAE may submit entries. ASHRAE Technology Award winners are recognized by peers as being innovative and capable of achieving a high level of competence. Winning projects are highlighted in articles in the ASHRAE Journal. The Society provides press releases to industry publications and ASHRAE Insights.

Recipients are honored at the Plenary Session of the Society's Winter Meeting, where the first-place awards as well as the "Engineering Award of Excellence" are presented. One award plaque will be presented to an entrant representing the design team, and another plaque will be presented to the building owner. The winning design firm may purchase additional plaques.

Please submit [Short Form](#) by June 1st.



APRIL MEETING

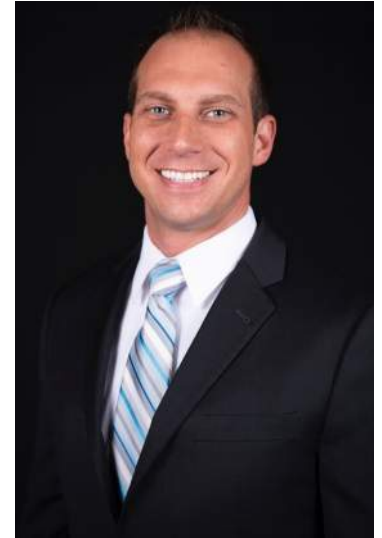
Main Meeting: 1.0 PDH Pending

Distributed Pumping solutions replace larger centralized pumps and energy-consuming balancing and control valves with smaller intelligent pumps placed throughout the building. This means the system is equipped only with components that generate pressure only when and where needed, automatically balancing the system, and flow restrictive devices are eliminated. The result is substantial reduction in total pump horsepower and energy, improved delta T performance on chillers, and a more comfortable indoor climate. We'll review a case study of a retrofit of a five year old system that improved climate control, reduced pump energy by 54%, and increased chiller efficiency by expanding delta T by 28%. We will also learn how to easily retrofit existing buildings, design new systems, and reliably deliver improved comfort and efficiency from mechanical systems.

Speaker Bio:

Chris Ireland is a Key Account Manager – Distributed Pumping
GRUNDFOS Commercial Building Services, USA

Chris Ireland has 17 years of experience in the construction and HVAC industry, and holds a degree in Construction Management with an Emphasis in Technology. Chris is currently a Key Account Manager for the commercial buildings division of GRUNDFOS for the United States and Canada, with a focus on distributed pumping solutions in healthcare and higher education facilities. Before joining Grundfos 9 years ago, Chris worked as a Project Manager for JE Dunn Construction in Kansas City, MO, and was responsible for the Kansas City Federal Reserve Bank, The Kauffman Center for the Performing Arts, and Perceptive Software HQ. Chris lives in Phoenix, Arizona with his four daughters.



Details:

Free parking at Embassy Suites in Waltham
Plated Dinner will be served
Cash Bar 5:30-6:30 pm

History News

By: Eric Edman - BR+A

Hello,

Boston ASHRAE History does not sit still...

In some local news, some of you may want to note we lost a prominent member. Anand Seth passed away in December. He worked at MGH for 25 years and was a 50 year member of ASHRAE. He contributed to ASHRAE 170 and 62. He was awarded a 50 year member medal and was in line to receive the honor of Fellow in ASHRAE which may be awarded posthumously.

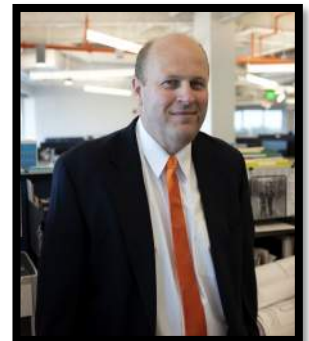
In other events, our local product show has moved from Lantana's and will relocate to Quincy Marriott. The 2020 show was cancelled weeks before it was to occur. The 2022 show will be held on Thursday November 3rd. We sure hope to see you at this historical event. I have been at every event since 1984-every other year. This will be the 19th show. A lot has changed. Mark your calendars to attend this do not miss event. Of course further details will be announced.

The 2022 ASHRAE/AHR event in Las Vegas was moderately well attended by about 35,000 people. The 2020 show by contrast was a little over 50,000 people. Our brethren in Canada were not allowed into the US which may well have accounted for 10,000 people. The 2023 show will be in Atlanta, the annual meeting is still scheduled for Toronto in June.

I was sent two items to be reported upon in the future; both are great stories. I will let you enjoy the special feature section this month.

All my best,

Eric, c001his@ashrae.org



Eric Edman
Historian

President's Message

Hi Everyone,

I wanted to thank everyone who attended our second in-person meeting of the year on February 15th! The February meeting was on The HVAC System's Role in Improving Indoor Air Quality in Buildings of All Types with a tech session on the Various Tools Used in the Application of Ionization Devices. I also want to thank our speakers Lawrence Bettello and David Schurk for taking the time to come speak with us. If you want to learn more about them, please read the previous newsletter for a quick bio.

We had a joint meeting with AEE on March 2nd and I wanted to thank all the AEE members for setting up this year's joint meeting. The meeting had four speakers who went into detail about Net Zero Energy, BERDO 2.0, and VRF Heat Pumps. I want to thank all of the speakers for taking the time to present this to us! If you want to more about them, their bios are located in the previous newsletter for your viewing.

We have our upcoming meeting on April 12th. This meeting will be located at the Embassy Suites in Waltham. The main presentation will be on HVAC Distributed Pumping and will be given by Chris Ireland. More information is available in this newsletter and on our chapter website. We are hoping to get PDH credit approved for this meeting.

Reminder that our golf outing is on May 16th this year so make sure you save the date and get your practice swings in as the weather gets better! We are quickly approaching the end of the ASHRAE year in June and I want to thank everyone that has stuck with us through these hard and uncertain times. We look forward to seeing you in the fall next year including our product show!

If you are interested in getting involved or volunteering with the Boston chapter, please get in touch with me and we will have you join our planning meeting to see how you can get involved. We are always looking for volunteers to help out with multiple committees available to help out with! We have openings in our Newsletter and Website teams to fill. 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

History Special Feature

Eric Edman

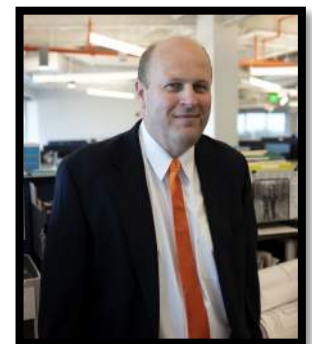
Hello to all of you- patiently waiting for the next history special feature. What will this crazy historian come up with this month?

Well.... I have saved this one since last year. Last summer, my youngest daughter wanted to tour the University of Kentucky while considering colleges to attend. On the tour, the young lady guide showed us this very nice dorm, Ingels Hall, named for a very famous UK graduate who had a career in the air conditioning business. Stop the tour! Huh!? I did not actually stop the tour, but I did ask who I could speak to on campus who knew more about this. I bored my poor daughter to tears, but she knows me and knew that I would



Ingels Hall at the University of Kentucky, 2020

need some more time to learn about this. I met someone from facilities, an older fellow who took me thru the building again. He told me a bit about this woman whom the building is named for. I found further info thru the magic of the internet. I thought it particularly important to save this story in honor of women's history month (March) and give great deal of credit to women in general who get into HVAC and stick with it. My utmost respect and admiration go to all of you women out there.



Eric Edman
Historian

Miss Margaret Ingels went to the University of Kentucky (UK) hoping to pursue a degree in architecture. Fortunately for the engineering profession, there was no degree program in architecture. Dean Anderson persuaded her to pursue a degree in mechanical engineering as “the next best thing.” She was the first female engineering graduate from this institution when she received her BSME in 1916. 1916 was before the women’s liberation movement and rights to vote!

In 1917 she joined the Carrier Engineering Corporation where her interest in “conditioned air” began. She received her masters in 1920 and the next year she joined the American Society of Heating and Ventilating Engineers research lab where she studied air conditioning. In 1931 she returned to Carrier. That same year President Hoover invited her to Washington to celebrate her achievements; one of her most famous was the development of the Sling Psychrometer. She remained with Carrier until her retirement in 1953. In 1940 she was selected as one of 100 women in the United States who had successful careers in engineering. Another powerful woman, Eleanor Roosevelt, had a lot to do with this

Ingels gave a speech, “Petticoats and Slide Rules” to the Society of Engineers in 1952, she recounted the women who had preceded her and followed her into engineering. Her message is still an inspiration to women in engineering.

“The woman who joins the profession of engineers today, tomorrow, and tomorrow’s tomorrow benefits from a rich heritage bequeathed to her by those who came before. She assumes automatically the responsibility to further prove that petticoats and slide rules are compatible, and she must not carry the responsibility lightly. Her task is to widen the trails blazed for her—and more. She must build them into great highways for women engineers of the future to travel, free of prejudices and discrimination.”

The dormitory named Ingels Hall opened in August 2005 at UK. It is a living-learning community and includes specialized programming for female engineering students living in the Women in Engineering Wing. How fitting that the Air Conditioning equipment was donated by the Carrier Corporation. Such a small and wonderous world at times.

After all this, I was completely in awe at the achievements of this truly exceptional woman. I think it proper to recognize her for our celebration of women’s history month. Miss Ingels, thanks for making the world a better place.

To conclude the story, my daughter is going to Sacred Heart University in CT and will enter into business. She hopes there is nothing HVAC related at this school (SHU) her father will dig into. Ever. (I made no promises).

Until we met again, all my best.
Eric Edman
Boston ASHRAE History



Miss Margaret Ingels holding her Sling Psychrometer around the 1940’s



ASHRAE is offering both in person and virtual HVAC Design Training options. The HVAC Design Training course is comprised of four different training sessions: HVAC Design: Level I—Essentials, HVAC Design Level II—Applications, Consulting Engineering Essentials, and Improving Existing Building Operation. Click [here](#) for more information!

City	Level I	Level II
Denver, CO	April 4-6, 2022	April 7-8, 2022
Virtual	April 18-22, 2022 (AM)	April 25-27, 2022 (PM)
Virtual		April 25-27, 2022 (PM)
Toronto, ON	May 9-11, 2022	May 12-13, 2022
Salt Lake City, UT	May 16-18, 2022	May 19-20, 2022

Welcome New ASHRAE Boston Members

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

- Sai Rohan Kollu
- Ankush Chakrabarty
- Kathryn Solov
- Bruce Sutter
- Josh Yakuben
- Aldo Glean
- James Neff
- John Obrycki
- Shide Salimi
- Jung Min Han
- Brian Willis

ASHRAE MEMBERSHIP INFORMATION

Upgrade from Student to Associate

SmartStart is a 3 year program that allows Student members to transfer to Associate grade membership at a rate that is recent-graduate friendly. Student members who are graduating soon or have recently graduated should complete the [SmartStart form](#) to participate.



Upgrade from Associate to Member

Associate grade members who have obtained at least 12 years of qualifying experience may advance to Member grade. Experience can include a combination of education, work, and professional licensure.

To advance to Member grade, update [your ASHRAE bio](#) to include your education, work and professional licensure in your profile. Once complete, email membership@ashrae.org that you wish to be considered for grade advancement.

If you would like detailed information on what experience qualifies for advancement, please see Section 2.7 of the [ASHRAE Bylaws](#).

Upgrade to Life Member

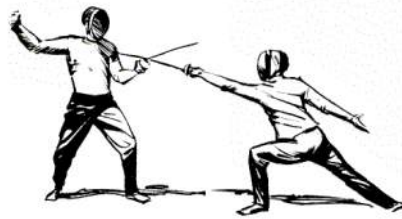
No action is required – Life Membership is automatically calculated based on the requirements listed below. To become a Life Member, an individual must have:

- Reached the age of 65 years
- Paid continuous dues for at least 30 years

DETAILED INFORMATION FOR ASHRAE MEMBER GRADES



MA ASHRAE Membership Battle!!!



Support employee involvement in ASHRAE within your firm and win the

Top MA ASHRAE Supporter Award!!!

The company that has the largest growth percentage of new members belonging to the MA Chapter (compared to their current quantity of members starting on January 11th) by May 1, 2022 will receive the

Top ASHRAE Supporter Award!

Top MA ASHRAE Supporter Award (largest growth percentage of new members)

- ASHRAE award plaque with company name presented at the June meeting.
- Recognition in the membership directory for 1 year and in our newsletter.
- Company name on MA ASHRAE's website.
- New members from winning firm eligible for \$50 Amazon Gift Card Raffle

Become a member today at www.ashrae.org

Please contact our Membership Promotion Co-Chairs, Kiersten Washle (kwashle@cmta.com) & Tim Driscoll (timothydriscoll@siemens.com) with any questions.

Battle Rankings

Membership Battle Update - These firms have had the most new members join since the first of the year.



Government Affairs

By Mallory Epstein

Indoor Air Quality Monitoring in Boston Public Schools

As a part of the [Boston Public Schools \(BPS\) Indoor Air Quality \(IAQ\) and Ventilation Plan](#), IAQ sensors have been installed in all classrooms and offices within the schools. The plan adopts guidelines from [ASHRAE's Epidemic Task Force](#). These sensors measure air quality in real time, and this data can provide insight into the set-up of a classroom and any additional work or changes that need to be made to reach optimal air quality. Each sensor records the levels of Carbon Dioxide, Carbon Monoxide, airborne particulates, temperature, and relative humidity. As a result of increasing air exchange rates and monitoring air quality, the risk of COVID-19 is consequently reduced. Additionally, a dashboard showing the IAQ of all Boston Public Schools can be found here: <https://bostonschoolsiaz.terrabase.com/>

Mallory Epstein
Government Affairs
c001gac@ashrae.net

March Meeting Recap

Allison Guttadauro

Our March meeting was our yearly combined meeting with the New England Chapter of the Association of Energy Engineers. AEE planned and hosted a fantastic free webinar meeting on March 2nd. All four of the speakers shared a wealth of knowledge with the nearly 60 attendees. Stephan DiGiacomo gave an update on Boston's Energy Reporting Disclosure Ordinance (BERDO 2.0)

explaining how the updates to the ordinance focus more on reducing GHG's and what the penalties will be for those who don't comply. Dom Puniello and Kate Crosby spoke about the design and operation of the new Douglas Gates school that is currently under construction. The school will be Acton-Boxborough's new Net Zero Energy school ready for occupancy in August 2022. They explained the process of designing and selecting equipment utilizing energy modeling and life cycle cost analysis.

Eric Tobiassen provided an update on air-source and water-source VRF and domestic hot water heat pumps as well as the current and future MassSave Energy rebates available for these types of equipment. There are standard and custom rebates available and some are even eligible for commitments to be made before building.

Thank you to AEE and the speakers for taking time to present to ASHRAE!

Allison Guttadauro

NorthEastAire@gmail.com



SAVE THE DATE

Granite Links Golf Club
Quincy, MA

2022 ASHRAE Golf Tournament



May 16, 2022
1:00 pm Shotgun Start



*Thank you to our strong
organizational supporters*

*Organizations with the most Boston
Chapter Members*



**Massachusetts
Institute of
Technology**



Thank You to our 2022 Corporate Sponsors!



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EVENTS CALENDAR

Date	Event	Location	Event Information
April 6, 2022	AEE Meeting	Zoom—Free Register Here	Career Paths in Energy—AEENE & CWEEL are hosting a panel for young professionals in the industry and will include pointers on how to network effectively for career development
April 12, 2022	April Meeting	Embassy Suites Waltham	Distributed pumping solutions with presenter Chris Ireland
April 14, 2022	ASHRAE Society	Online	Laboratory Exhaust Stacks: Safe and Energy-Efficient Design, Hosted by ASHRAE Learning Institute, Register Here
May 4, 2022	AEE Meeting	Virtual	The Future of Fusion, AEE is hosting a virtual meeting to hear from the experts about the latest advances and future opportunities with fusion
May 16, 2022	Golf Outing	Granite Links	Shotgun start at 1:00 pm, more details to follow
May TBD, 2022	DiA Event	TBD	
June 25-29, 2022	ASHRAE Society	Toronto, ON, Canada	The 2022 ASHRAE Annual Conference will be hybrid with both in-person and virtual options. Information here .
June TBD, 2022	Installation of Officers	TBD	
September 13, 2022	September Meeting	TBD	Distinguished Lecturer Mark Fly will present at least 1 PDH presentation
November 3, 2022	Product Show	Marriott Quincy	Details to follow.

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

[Boston ASHRAE Facebook](#)



[Boston ASHRAE Twitter](#)



[Boston ASHRAE LinkedIn](#)



Boston Monthly Meetings	ASHRAE Society— Complete List
Boston Chapter Special Events	YEA Events
DiA Events	Other Societies Events

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>996</u>	<u>1100</u>	<u>525</u>	<u>1800</u>	<u>440</u>	<u>1940</u>	<u>1100</u>	<u>450</u>	<u>1195</u>	<u>925</u>

BOSTON CHAPTER OFFICERS



President
William Cunningham, PE
BR+A
c001@ashrae.net



President Elect
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CRB
c001pe@ashrae.net



Vice President
Will Fisher
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Secretary
Lance Brown
AKF
c001sec@ashrae.net



Treasurer
Lucas Rowe
Accuspec, Inc.
c001tr@ashrae.net

BOARD OF GOVERNORS

2019-2022	2020-2023	2021-2024
<p>Liz Desmarais Trumbull Campbell c001bog7@ashrae.net</p> <p>Dan Diorio Boston College c001bog4@ashrae.net</p> <p>Amy Gebhardt Victaulic c001bog2@ashrae.net</p>	<p>Allison Guttadauro Trumbull Campbell c001bog1@ashrae.net</p> <p>Steven Rosen Fitzemeyer & Tocci c001bog9@ashrae.net</p> <p>Erica Norquist Fitzemeyer & Tocci c001bog10@ashrae.net</p>	<p>Deanna Adkison Fitzemeyer & Tocci c001bog3@ashrae.net</p> <p>Nick Roth NE Applied Products c001bog8@ashrae.net</p> <p>Will Tang BR+A c001bog11@ashrae.net</p> <p>Gage Foley Trumbull Campbell c001bog6@ashrae.net</p>

COMMITTEES

<p>Attendance Drew Brown FIA Inc.</p> <p>Communications, Web, & Publicity Liz Desmarais Trumbull Campbell c001web@ashrae.net</p> <p>Diversity in ASHRAE Erica Norquist Fitzemeyer & Tocci c001bog5@ashrae.net</p> <p>Amy Gebhardt Victaulic c001bog2@ashrae.net</p> <p>Golf Outing Matt Hallock Trumbull Campbell</p> <p>Trevor Jones & Benjamin Almond HTS</p>	<p>Government Affairs Mallory Epstein Centrotherm c001gac@ashrae.net</p> <p>Historical Eric Edman BR+A c001his@ashrae.net</p> <p>Honors & Awards & Nominating Bob Persechini NV5 c001ha@ashrae.net</p> <p>Newsletter Editor Allison Guttadauro Trumbull Campbell NorthEastAire@gmail.com</p> <p>Membership Promotion Kiersten Washle CMTA c001mem@ashrae.net</p>	<p>Timothy Driscoll Siemens c001memc@ashrae.net</p> <p>Refrigeration Steven Tafone Suffolk Construction c001ref@ashrae.net</p> <p>Professional Development Professional Development Chair Needed!</p> <p>Research Promotion Vineet Nair CRB c001pe@ashrae.net</p> <p>Will Cunningham BR+A c001@ashrae.net</p>	<p>Special Events Amy Gebhardt Victaulic c001bog2@ashrae.net</p> <p>Student Activities & Scholarship Steven Rosen Fitzemeyer & Tocci c001sa@ashrae.net</p> <p>Sustainability Kiersten Washle CMTA c001sus@ashrae.net</p> <p>Technology Transfer Will Fisher FIA Inc. c001cttc@ashrae.net</p> <p>Vineet Nair CRB c001ctcc@ashrae.net</p>	<p>Young Engineers in ASHRAE Gage Foley Trumbull Campbell c001yea@ashrae.net</p> <p>Matt Hallock Trumbull Campbell</p> <p>Corporate Sponsorships Bob Persechini NV5 c001ha@ashrae.net</p>
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Positions are open!
Please contact
Chapter President Will
Cunningham at
c001@ashrae.net if
you are interested!