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DECEMBER MEETING

When: December 8, 2020

5:30 —7:45 pm

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

Details: Tech Session (5:30—6:30)

Presenters: Jeff Camuso, Chris Mueller, Sal Terranova

Topic: Piping Basics—steel pipe, copper pipe, cast iron and PVC

Main Meeting (6:45—7:45) **1.0 PDH**

Presenter: Allison (Bookstein) Guttadauro

Topic: Refrigeration Cycle Fundamentals & HVAC Applications

For our annual ASHRAE and ASPE combined meeting, we will be catering to members of both groups by providing a back to basics night! These presentations provide fundamental information from each discipline that will benefit you no matter your experience or expertise!

ASHRAE and Diversity

ASHRAE's Diversity Commitment

"ASHRAE is committed to providing a welcoming environment. Our culture is one of inclusiveness, acknowledging the inherent value and dignity of everyone. We proactively pursue and celebrate diverse and inclusive communities, understanding that doing so fuels better, more creative and more thoughtful ideas, solutions and strategies for the Society and the communities our Society serves. We respect and welcome all people regardless of age, gender, ethnicity, physical appearance, thought styles, religion, nationality, socioeconomic status, belief systems, sexual orientation or education."

Following in ASHRAE Society's steps, the Boston Chapter is exploring and celebrating our diverse members and underrepresented groups. See our first of what we hope to be regular highlights of diverse members of the Boston ASHRAE Chapter on pages 11 and 12.



December Meeting - Tuesday December 8th, 2020

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

- Time** 5:30—7:45 pm
- 5:30—6:30 pm Tech Session
 - 6:30—6:45 pm Break / Intermission / Main Meeting Run-Over-Time
 - 6:45—7:45 pm Main Meeting **1.0 PDH**

Tech Session **Presentation:** Piping Basics

Presenter Bio: Jeff Camuso is the president of Charles D. Sheehy, a regional distributor of pipe, valves and fittings. Jeff serves on the board of Affiliated Distributors Pipe, Valves and Fittings, and the American Supply Association Industrial Piping Division. Jeff has long supported Boston ASHRAE and the engineering community as well as helping contractors in all aspects of projects.



Jeff Camuso
Charles D. Sheehy

Steel Pipe **Discussion Topics:** (15 minutes)

- Design criteria
- Manufacturing techniques
- Connection methods
- Characteristics
- Variety of products
- Benefits and advantages
- Limitations

Presenter Bio: Chris Mueller is Vice-President of Product Development at Mueller Industries, Inc., one of the world's largest copper and brass flow-control product manufacturers. Based in Memphis, TN, he holds degrees from Purdue University and Michigan State. Chris has more than two decades of product design experience in plumbing, HVAC, and refrigeration markets. Chris' industry leadership includes past positions as Committee Chairman for the Plastic Pipe & Fitting Association and on the Board of Directors for the Memphis Chapter of the US Green Building Council. He is currently Chairman of the Tube & Fittings Council for the Copper Development Association.

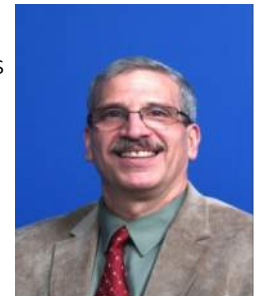


Chris Mueller
Mueller Industries, Inc.

Copper Pipe **Discussion Topics:** (15 minutes)

- Design criteria
- Variety of products
- Benefits and advantages
- Constraints

Presenter Bio: Sal Terranova is the Field Technical Service Representative serving the North Atlantic region of the United States for Charlotte Pipe & Foundry. His responsibilities include educating the engineering community as to the best installation practices and materials for all DWV and Storm piping applications. He has delivered multiple accredited presentations at industry organizational meetings, and individual Engineering offices. Sal is based out of the regional office in Milford, CT. He has over 26 years of experience in both the HVAC and Plumbing industry. Sal has held positions in Consulting Engineering, Contracting, and as a Manufacturer's Representative prior to joining Charlotte Pipe & Foundry in 2014.



Sal Terranova
Charlotte Pipe & Foundry

Cast Iron & PVC **Discussion Topics:** (25 minutes)

- Basic design
- Limitations
- Considerations
- Benefits and Challenges

Meeting info continued on next page!

November Meeting - Tuesday November 10th, 2020 cont.

Main Meeting
1.0 PDH

Presentation : Refrigeration Cycle Fundamentals & HVAC Applications

Presenter Bio: Allison (Bookstein) Guttadauro graduated from The University of Maryland with a degree in Mechanical Engineering in 2015. Since then she has worked in engineering sales for applied HVAC equipment. Allison spent two years with a focus on airside products including fans, diffusers, air distribution techniques, and terminal units. For the past three years, Allison has worked at Trumbull Campbell Associates where she routinely works with engineered equipment such as packaged rooftop units, energy recovery equipment, custom air handlers, chillers, and desiccant dehumidification units.

Presentation Overview:

Review the refrigeration cycle – four main components (20 mins)

P-H Diagram

Types of Condensing A/C,W/C. Evap

Modulating Hot Gas Reheat

Hot Gas Bypass

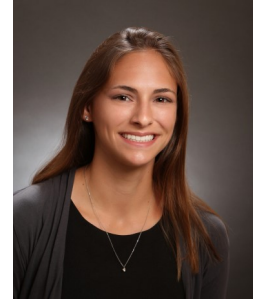
Refrigeration system auxiliary components and options

Refrigeration cycle in reverse / heat pump operation (5 mins)

Refrigeration cycle and chillers (5 mins)

Types of compressors available (10 mins)

Design/Application Considerations (10 mins)



Allison Guttadauro
Trumbull Campbell
Associates

Notes

To RSVP [CLICK HERE](#)

Meeting is free to all attendees

President's Message

Hello Everyone!

Thank you to everyone who attended our third virtual meeting on November 10th! We had a wonderful presentations by Thomas Klein about isothermal humidification and Paul Bemis about CFD modeling and predicting COVID-19 transmission.

As always, our December meeting is a joint meeting with the ASPE Boston Chapter. In an effort to cater to both ASHRAE and ASPE members, our tech session will be piping basics and the main meeting will be refrigeration fundamentals. Mechanical, plumbing, and HVAC engineers will learn something new and review topics they might already feel comfortable with in both presentations.

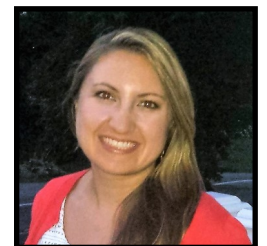
This meeting will be virtual and in the same format we have been using with GoToWebinar. The main meeting is PDH approved so please add your license number when you register so we can make sure you receive credit.

If you are interested in 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. 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,

A handwritten signature in blue ink that reads "Deanna Adkison".

Deanna Adkison
ASHRAE Boston Chapter President



Deanna Adkison
(Fitzmeyer & Tocci)
Boston Chapter President

EVENTS CALENDAR

Date	Event	Location	Main Meeting	Tech Session
December 8, 2020	December Meeting w/ ASPE	Online	Refrigeration Fundamentals— Allison Guttadauro 1.0 PDH	Piping Basics —Jeff Camuso, Chris Mueller, & Sal Terranova
January 12, 2021	January Meeting	TBD	David Bennett—ASHRAE Standard 170 and Atomizing Humidification Systems	Brian Soderholm—Ensuring Proper Water Quality for Humidification Systems
January 2021	DiA Event	TBD	TBD	
February 9, 2021	February Meeting	TBD	Steve Tafone—Controls Fundamentals	Eric Edman—Chapter History
February 9-11, 2021	ASHRAE Virtual Conference	Online	The 2021 ASHRAE Virtual Conference by online format. Discussions, technical sessions, virtual tours, and more. Group rates are available, more info here .	
March 9, 2021	March Meeting	TBD	Cogen	
April 13, 2021	April Meeting	TBD	In Person Tour (if feasible)	
May 11, 2021	May Meeting	TBD	Installation of Officers	
June 7, 2021	Golf Outing	Granite Links		

** The dates in this calendar should not change but the events may change as we get closer to the events. As always, see the chapter website for the

[Boston ASHRAE Facebook](#)

[Boston ASHRAE Twitter](#)

[Boston ASHRAE LinkedIn](#)



Join and check the ASHRAE Boston Chapter LinkedIn page for the most up to date information!

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!

- | | | |
|-------------------|--------------------|------------------|
| - Eric Richards | - Michael Gosselin | - Jacob Miller |
| - Christina Kelly | - Timothy Bartlett | - Kevin McNamara |
| - Ray Seymour | - John Balboni | - Sean Sullivan |
| - Kyle Cahill | - Charles Busa | |

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 mem01@ashrae.net) for any info on how you can get involved with Boston ASHRAE!

Thank you,
Lucas

SPONSORSHIP OPPORTUNITIES 2021 (January 1—December 31, 2021)

PLATINUM SPONSOR - \$5000 (max. available: 1)

- Donation of **\$3000** in your company name to ASHRAE Research - Boston Chapter Endowment
- Company logo with a link to company website displayed on ASHRAE Boston Chapter website
- Signage in main presentation hall or on virtual meeting introduction screen at all monthly chapter meetings
- **Verbal Acknowledgement as Platinum sponsor at all monthly chapter meetings**
- Complimentary full-page ad in the Boston Chapter Roster & Product Guide
- Company logo and acknowledgement as Platinum sponsor in Boston Chapter & Product Guide
- Company logo and acknowledgement as Platinum sponsor on our social media platforms (LinkedIn, Twitter, Facebook)
- **Two (2) Monthly Job Posting Packages (newsletter, website, social media and Society job board)**
- **Two (2) Reserved foursomes at annual ASHRAE Boston Chapter Golf Outing***
 *Cost of foursomes is not included and you must pay for foursomes within 1 week of open registration
- Complimentary hole sponsor sign at the annual ASHRAE Boston Chapter Golf Outing
- **2nd complimentary hole sponsor sign - on a "contest" hole - at the annual ASHRAE Boston Chapter Golf Outing**
- **Four (4) complimentary tickets to the Sponsor Appreciation Night**

GOLD SPONSOR - \$3000 (max. available: 5)

- Donation of **\$2000** in your company name to ASHRAE Research - Boston Chapter Endowment
- Company logo with a link to company website displayed on ASHRAE Boston Chapter website
- Signage in main presentation hall or on virtual meeting introduction screen at all monthly chapter meetings
- Complimentary full-page ad in the Boston Chapter Roster & Product Guide
- Company logo and acknowledgement as Gold sponsor in Boston Chapter & Product Guide
- Company logo and acknowledgement as Gold sponsor on our social media platforms (LinkedIn, Twitter, Facebook)
- **One (1) Monthly Job Posting Packages (newsletter, website, social media and Society job board)**
- **One (1) Reserved foursome at annual ASHRAE Boston Chapter Golf Outing***
 *Cost of foursome is not included and you must pay for foursome within 1 week of open registration
- Complimentary hole sponsor sign at the annual ASHRAE Boston Chapter Golf Outing
- **Two (2) complimentary tickets to the Sponsor Appreciation Night**

SILVER SPONSOR - \$2000 (max. available: 10)

- Donation of **\$1000** in your company name to ASHRAE Research - Boston Chapter Endowment
- Company logo with a link to company website displayed on ASHRAE Boston Chapter website
- Signage in main presentation hall or on virtual meeting introduction screen at all monthly chapter meetings
- Complimentary full-page ad in the Boston Chapter Roster & Product Guide
- Company logo and acknowledgement as Silver sponsor in Boston Chapter & Product Guide
- Company logo and acknowledgement as Silver sponsor on our social media platforms (LinkedIn, Twitter, Facebook)
- Complimentary hole sponsor sign at the annual ASHRAE Boston Chapter Golf Outing
- **One (1) complimentary ticket to the Sponsor Appreciation Night**

COMPANY NAME			SPONSORSHIP LEVEL Please check one <input type="checkbox"/> PLATINUM \$5000 <input type="checkbox"/> GOLD \$3000 <input type="checkbox"/> SILVER \$2000
CONTACT NAME			
CONTACT E-MAIL			
COMPANY MAILING ADDRESS			
CITY	STATE	ZIP	

PAYMENT METHODS

- PayPal – <https://ashraeboston30.wildapricot.org/event-4065582>
- Check – please mail the completed form and check to:
 - Will Fisher, 1 Boston Harbor Road, Dover, NH 03820

SPONSORSHIP CHECKLIST—Please email the following to c001web@ashrae.net when you register to become a sponsor

- Above information
- Company ad in high-resolution ESP or JPG format to be place in the Roster & Product Guide
- Company logo in high-resolution ESP or JPG format for signage, newsletter and website

THANK YOU to Our 2020 Sponsors!

If you would like to become an ASHRAE Boston Chapter Sponsor for the 2021 calendar year, please see the sponsorship opportunities on the previous page of the newsletter. Act fast as the silver level sponsorship typically fills up quickly! If you have questions about 2021 sponsorship, please reach out to Bob Persechini at c001ha@ashrae.org



GOLD SPONSORS





SILVER SPONSORS












Presidential Award of Excellence



Boston Chapter - 2020-2021

Chapter Members	Membership Promotion Points	Student Activities Points	Research Promotion Points	History Points	Chapter Operations Points	Chapter Technology Transfer Points	Government Affairs Points	Electronic Communications Points	YEA Points
<u>1000</u>	<u>775</u>	<u>250</u>	<u>320</u>	<u>230</u>	<u>60</u>			<u>580</u>	<u>875</u>

Historical News

By: Eric Edman - BR+A

Your historical committee extends holiday greetings to each of you. It is difficult to believe that a year ago we had a “normal” holiday with hugs, kisses, handshakes and warm greetings towards one another. Here we are a year later- and hugs, kisses and handshakes are a thing of the past. History as you might say.

Well, we certainly do not want the Coronavirus to get the better of us, so we can STILL send to you our very best wishes, and warmest of greetings to you during this holiday season.

May each of you find peace.

I’ll remember stories of some people telling me of holidays during world war two when they had NOTHING. I will be grateful during this pandemic that I have my family in good health, all of you as friends, a roof over my head, and a heating system that works pretty darn good on the coldest of days.

Happy Holiday season to each of you, and our best for 2021.

(I can still say Merry Christmas)

Eric Edman

c001his@ashrae.net



Eric Edman
Historian

DECEMBER PET OF THE MONTH!

Teddy!

Theodore “Teddy” Dussault is a pure bred short haired dry mouth Saint Bernard. We call him Teddy Bear. The description is deceiving because he definitely still drools and there isn’t a lack of hair on the floors in the house.

We traveled to PA to get him right at the start of quarantine and from the start he has been a blessing to our family. He brought energy, purpose, and love to our home when we needed it most. He was born on January 20th, 2020. When we picked him at 8 weeks old and 26 pounds. Now, he’s 10 months old and 136 pounds. He’s truly a gentle giant. He loves to dig holes and lay in the mud.

He loves to snuggle and always wants to be part of the fun. If he hears laughter in another room, he comes running in to join the fun. His favorite position is on his back with all legs flopped open. He will basically sleep anywhere. He loves being in the car and is always trying to jump in with us when we leave the house. If he

doesn’t come along with us, he sits on the couch looking out of the window.

He’s the mayor of the dog park. When he arrives he’s sure to say hello to all humans and dogs alike. His favorite toy is his king size Kong because it’s stuffed with his favorite food, peanut butter. No other toy has lasted long enough to become a favorite. He moved into our hearts just as quickly as he moved into our house.



Thank you Connie and Joe Dussault for sharing Teddy with the readers of NorthEastAire! Nominate your pet by emailing a picture (or a few) and small bio to northeastaire@gmail.com!



By ASHRAE Proactive Diversity Task Group

The Board of Directors approved a Diversity Commitment for the Society at the Orlando 2020 ASHRAE Winter Conference in February (see “ASHRAE’s Diversity Commitment” below).

ASHRAE Presidential Member Darryl Boyce, P.Eng., Fellow/Life Member ASHRAE, and 2020–21 ASHRAE President Chuck Gullede, P.E., Fellow ASHRAE, formed the Proactive Diversity Task Group in June 2020 to recommend detailed programs and initiatives that will seek to eliminate all forms of discrimination and social injustice, and proactively drive diversity, through all levels within ASHRAE.

The Task Group, which includes appointees from underrepresented groups in ASHRAE, is meeting regularly to formulate an action plan to embed an inclusive approach to diversity within ASHRAE. The Task Group’s efforts will build on ASHRAE’s current commitments to diversity and inclusion by exploring when and why the ASHRAE culture may be marginalizing underrepresented groups and reexamining our policies, programs and procedures against current law and best practices.

The Task Group established five goals for the initiative (following a facilitated work session with the board in August of 2020):

1. Communicate a compelling rationale for diversity and inclusion in engineering, the HVAC&R industry and ASHRAE.
2. Develop an understanding of the diversity profile of those in engineering, the HVAC&R industry and ASHRAE relating to education, training, employment and membership.
3. Understand and remove barriers to diversity and inclusion through programs, education and advocacy.
4. Identify metrics and then measure and report on impact.
5. Lead the way in demonstrating good diversity in practice.

Building a stronger culture of equality, diversity and inclusion in ASHRAE will help the Society be more creative, innovative, and resilient, drive group performance and improve member and staff retention. The aim is to remove barriers experienced by underrepresented groups and strongly articulate the need for participation of those groups in ASHRAE. The Society’s call to action will start with ASHRAE’s membership and staff, extend through the HVAC&R industry and engineering profession and finally to promoting STEM education programs to children, schools and educators.

We need to support an inclusive culture that will inspire, attract, train and retain more women, disabled, LGBTQ+ and younger people from all socioeconomic and ethnic backgrounds to engineering, HVAC&R employment and ASHRAE membership. Of particular importance is using our student branches to attract and retain interested and committed members.

Creating diversity is one focus, but of equal importance is nurturing a culture of inclusion in which regardless of abilities, disabilities or health-care needs, all are respected and appreciated. Achieving this will challenge everyone at all levels of ASHRAE to consider how their behavior supports this vision and, if necessary, change to become more inclusive of collaborators, members and staff. If ASHRAE’s culture is not inclusive, members will leave and discourage others from participating.

The Black Lives Matter movement and other events drawing attention to social inequalities led ASHRAE leaders to consider how ASHRAE is proactively supporting its Diversity Commitment. Over the coming months the Task Force will further promote how diversity and inclusion (D&I) can positively impact the strength of ASHRAE and the industry. The Task Force will introduce initiatives to improve ASHRAE’s D&I culture over the long term and benchmark our results.

The Task Group consists of Tim McGinn (chair), Robin Bryant, Sheila Hayter, Russell Lavitt, Dunstan Macauley, Andres Sepulveda and Tanisha Meyers-Lisle (staff). The Task Group is soliciting your input on our D&I objectives. We are giving members the opportunity to respond to an anonymous online survey on the subject. The link to the survey is <https://www.surveymonkey.com/r/VQ7XJWX> and will be active until December 9, 2020.

We have also set up an online form where you can anonymously submit comments and suggestions and share your aspirations on how ASHRAE and the industry can advance toward a more equitable model where people are treated fairly. The link for submitting comments is <https://www.ashrae.org/communities/committees/feedback-on-ashrae-s-culture-of-diversity-and-inclusivity>.

ASHRAE Boston Diversity Highlight

The Boston Chapter is highlighting diversity in ASHRAE this month and in the months to come. We are starting by sharing stories from people in one of the largest minority groups in our chapter, women. There are many more diverse people represented in our chapter that we want to highlight in upcoming months. We would love to hear from you if you represent a diverse group, please reach out to c001dia@ashrae.net! You might hear from me in the coming months to see if you are interested in sharing your story as a diverse member of ASHRAE.

Amy Gebhardt & Erica Norquist
c001dia@ashrae.net

We are starting off our Boston Chapter Diversity Member Spotlight by asking a few women:

1. Why or how did you get into the industry?
2. What opportunities has being involved in ASHRAE provided?
3. What is your insight or something you would like to share about being a minority in the AEC Industry?

Yuka Narisako



1. I studied HVAC systems as an Architectural Engineering student at Penn State, which led me to an internship at BR+A in Boston. The rest is history!
2. I've built a network of highly supportive colleagues from different engineering firms, construction management companies, and

manufacturer's representatives. It's amazing to take a huge industry and connect with so many people. Through my time as Student Activities committee chair, I've had the opportunity to travel and meet other Student Activities chairs from across the country and hear how they are making a positive impact on their respective Student Branches.

3. It's intimidating at first to walk into a room where you are a minority, especially when you first start out in the industry. I do believe there is some pressure to outperform because you are a minority and you need to prove yourself. It's important to recognize, though, that when you are participating in a meeting or conference call you are there because you bring knowledge to the table, unrelated to your personal identification as a minority member.

people in the industry and feel like I belong. There are many learning opportunities at the monthly meetings with the presentations. Being involved in the committees has helped me improve my soft skills and confidence in participating in meetings. It was intimidating (and still can be) going into project meetings when I was the only female at the table. I think ASHRAE has helped a lot with the anxiety of being in a crowd where I don't know anyone and has helped me find my voice.

3. Don't be afraid to be yourself. I think the more authentic you are, the more you feel comfortable, and the better your work will be. Try to know your strengths and weaknesses and be vocal about what you want and don't want out of your career. If you really like doing X but not Y, then don't just go about doing Y because you feel like you have to. I love this industry because there are so many different hats you can wear and paths you can take, but you need to have an idea as to where you are going in order to get there. Try to seek someone out who is in a position that you want for yourself in 5 years, ask them to be your mentor. Having someone to guide you along the way will help you get where you want to be.

Deanna Adkison



1. I have always had a big math fan since early in life then in high school I became interested in architecture. One of the prerequisites to the architecture class was a drafting class which included an introduction to engineering, mainly mechanical. During that portion of the class we had to design and build simple machines. I realized there was a lot of satisfaction in coming up with a

concept, designing it, building it, and having it WORK! There is a problem solving stage between building something and having it function that took patience and perseverance and I found that I enjoyed that stage. This ultimately led me to pursuing a degree in mechanical engineering. While in school, I found a job as an administrative assistant at a bridge contracting company. Little did I know, this taught me some valuable tools and gave me some insight into the construction industry. Long story short, all of the things I enjoyed and learned while going about my educational and professional path merged at some point and I found myself in the HVAC design world.

2. ASHRAE has provided me a way to be more involved in the industry and has been invaluable for networking. Especially earlier on in my career, it was nice to start to socialize with

Erica Norquist

1. I attended college at Wentworth Institute of Technology, where I was required to do two co-ops as part of my Mechanical Engineering curriculum. For both co-ops, I worked at Fitzmeyer and Tocci Associates as a Mechanical Design co-op on the HVAC team and instantly was engaged in the environment and culture. The environment valued teaching and development and took great pride in their program. I was able to learn how to use my mechanical knowledge from school and use that in a professional environment, which drew me toward pursuing this industry post-graduation. After graduating from Wentworth in 2019, I began my full-time career at F&T as a Mechanical Designer.
2. I began getting involved in ASHRAE within the first few months of my professional career through Deanna Adkison, Project Manager, at F&T. From this relationship, I've had many incredible opportunities to network with people from other parts of the industry and grow my knowledge from the education opportunities. As part of the Women in ASHRAE/Diversity in ASHRAE committee I've been fortunate to get to know some very talented and successful women in the field, which has helped me see opportunities where this field could take me.
3. Talk about your identities with your colleagues and network with other people that share the same identities as you! Both as a female engineering student and young engineer in a male dominated field, [imposter syndrome](#) has made me second guess my talents. I'm so fortunate to work with a supportive HVAC team at F&T and be part of an overall work environment that always reassures me that I belong and can thrive in this field. This combined with networking amongst such talented women in the industry has made a strong impact on me early on in my career and has given me confidence in my skillset and ability to grow in my career in engineering.



Amy Gebhardt

1. Long story short, I grew up in California and ventured to play softball at Lafayette College in Easton, PA. I majored in Biology with the intent to go pre-med, and well, clearly went another route. I had heard great things about Victaulic as a highly accredited company in Lehigh Valley, especially from the Lafayette engineering community. I applied for an inside sales position and was hired to support the New England sales team. After 3 years, I wanted to try outside sales and low and behold, a position was open in Boston. I am coming up on two years as the New England Engineering Sales Specialist for Victaulic.
2. Starting off in a new city with a new job was challenging, especially as a sales representative where relationships are key. Luckily, my predecessors were involved in ASHRAE and I quickly joined in my humble beginnings to try to establish myself in the industry. I visited an ASHRAE board meeting early on and volunteered to assist with meetings/events. I was quickly "thrown in" and took on more responsibilities, including planning the (COVID-19 Canceled) ASHRAE Product Show. I am currently on the Board of Governors and assist with Diversity in ASHRAE. Through these experiences, I have been very fortunate to meet a variety of people in the AEC world. My network and knowledge of HVAC has grown significantly due to ASHRAE and the generosity of introductions from many colleagues. I am happy to now call many of these people my friends.
3. I knew as a female entering a male-dominated industry that I would face gender-biased challenges and stereotypes. For example, in just my first week, I heard that as a woman I was a poor investment (because I might have kids) and that I needed to know the technical material in order to earn respect from the start. Statements like these present emotional, technical, and social challenges that I have to learn to navigate and respond to, which my male counterparts do not. These are simply unfortunate gender biases that still exist today, and rather than disengage, I use these challenges as motivation to always be prepared, proficient, and open to learn more. I enjoy exceling at what I do and being a critical part of my team's success, and I hope to set an example for other young women interested in joining the industry.

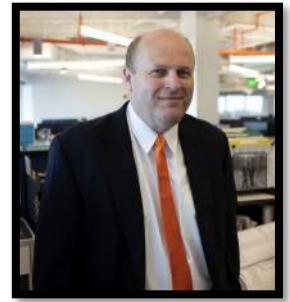


History Special Feature

Hello and a very Happy Holiday season to all of you.

It is with our sincere wishes that all of you enjoy some quality time with your loved ones during the holidays.

We wanted to re-remind all of you that this is our 125th Anniversary of ASHRAE. The year 1895 was the formal start of things for this group of esteemed professionals. Many of you know our roots. We started as heating and ventilating engineers (ASHVE)- with Boston claiming the title as chapter 001, within region 01. Well in case you doubted you now you know for sure- we are number one.



Eric Edman
Historian

Our goal for this year was to bring to you items from our early history. Things you probably did not know about. History that shaped who we are, and how we got here. We wanted to focus on things that started pre-1895 to help many of you appreciate things from a historical perspective.

One of those big things most of us enjoy around the holidays is chocolate. As it turns out, the oldest chocolate factory in the US started right here in Boston. In case you did not know, the company is “The Bakers Chocolate Co.” That is wonderful, but how does HVAC fit into all this? Well...as the story goes, a young Irishman named John Hannon took to the idea of making chocolate at the mills along the Neponset River in Dorchester around 1765. The Baker family who owned the mills financed the young man who started the business and ran it for 15 years. The Baker family took over in 1780, They grew the business and made it the household name it still is today. Chocolate was one of those weather dependent things that just can not be made when it is warm, so the mill made other things in the summer and chocolate in the winter.

Well, things changed around 1906. One of our early engineering giants named Benjamin Sturtevant (Maine native turned Bostonian—see the [NorthEastAire September](#) History Special Feature to learn more about Sturtevant) helped develop a power plant for the entire mill complex and with the advent of power came the first brine chiller at the complex in 1907. The brine was circulated in pipes embedded in the structure to keep it cool all year long. We are uncertain who made that first chiller, it is possible it came from Carrier. Carrier and Sturtevant collaborated somewhat. Carrier made the cold, and Sturtevant moved the air. This incredible invention of cooling helped turn a weather dependent industry into a year round operation! Production soared and a major industry took off.

Finally, chocolate was able to be made all year long. The 200 foot tall boiler stack became a local landmark. The boiler plant and the power plant created opportunities for some other really cool inventions. How about some of the first electric vehicles? Yes, that is correct, electric vehicles. The chocolate factory had up to six all electric trucks used to move product around the factory. They purchased their first gasoline powered truck in 1914. Along

SWEET HISTORY: DORCHESTER AND THE CHOCOLATE FACTORY



Picture is the Pierce Mill around late 1870's as a postcard.

History Special Feature continued...

came 1917, and America entered the war. Bakers Chocolate made chocolate for the war effort. That's right—special WTW (Win the War) bars were made for those fighting in the war to end all wars in 1917. Chocolate came to be standard fare in a military ration. Many a story goes around about American GI's sharing their chocolate rations with children around the globe. The goodwill that spread can only be imagined, but holds true still today. HVAC helped make all that possible. Bakers' was one of many candy factories that stepped up production during WW2, and later donated—that is correct donated chocolate—in 1949 for the Berlin airlift chocolate bombers. My mother was one of those German civilian beneficiaries. We went to Berlin in 2018 and watched a brief movie at the Airlift museum. Bakers' crates also served as firewood. My mom recalled all of this and here I am writing about it in an HVAC trade article. We can talk about this in another article, but, we needed to remain focused on HVAC.

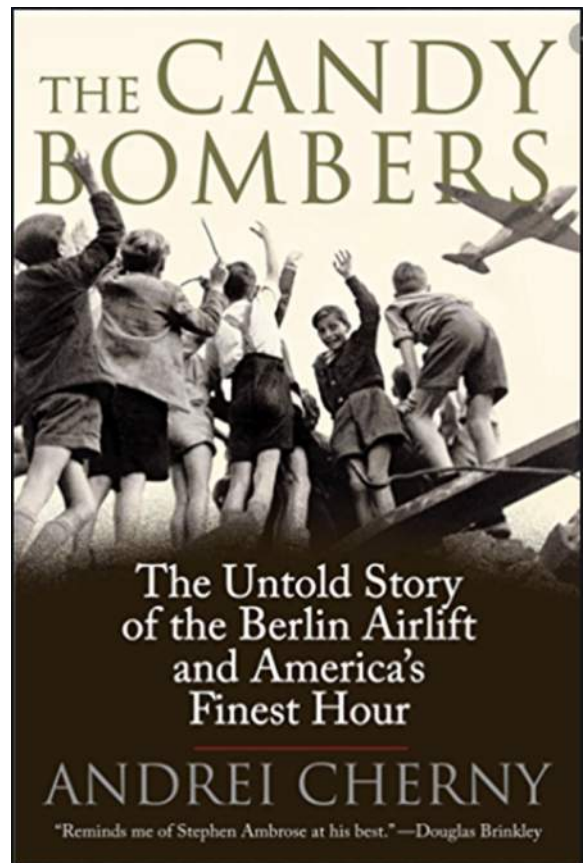
So, the next time you enjoy a Hershey Kiss, a Ghirardelli chocolate bar, some Bakers Chocolate or some other form of chocolate, you can bet your booties that HVAC is behind the success of yet another industry. You can also know that it all came about because of the Baker family, and what went on right here in Boston.

Did you know Boston ranked as an innovation city in 2017. The only American city to hold that title.

Bakers moved out of Boston to Dover, Delaware in 1965. The Baker complex was added to the National Register of historic places in 1980, and is a sprawling condominium complex along that stretch of the Neponset River. Perhaps you did not know this piece of Boston history and I hope you enjoyed the short story.

Wishing you a very happy holiday season

Eric Edman
c001his@ashrae.net



A great book if you are interested.

Research Promotion

Dear ASHRAE Members,

Our research promotion goal for 2020-2021 is to raise \$27,300 for ASHRAE. We have raised \$2,030 so far this year.

You can start helping ASHRAE reach our goals by donating online at www.ashrae.org/donate. 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
2020-2021 Research Promotion Chair
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