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OCTOBER MEETING

When: October 13, 2020
5:30 —7:45 pm

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

Details: Main Meeting (5:30—6:30) **1.0 PDH**
Presenter: Dr. Stephanie Taylor, MD
Topic: Engineers Are the Physicians of the Future

Tech Session (6:45—7:45) **1.0 PDH**
Presenter: Thomas Klein, MBA
Topic: Isothermal Humidification

ASHRAE Learning Institute 2020 Fall Online Course

Post COVID-19 Building Reopening Course Among New Training Offerings

ATLANTA (August 21, 2020) – ASHRAE Learning Institute (ALI) has opened registration for its [2020 Fall Online Instructor-led Course Series](#). The series which begins on September 10 and concludes on December 15, features 18 new or updated courses.



October Meeting - Tuesday October 13th, 2020

- Location** GoToMeeting Virtual Webinar—Registration Link [Here](#)
- Time** 5:30—7:45 pm
- 5:30—6:30 pm Main Meeting **1.0 PDH**
 - 6:30—6:45 pm Break / Intermission / Main Meeting Run-Over-Time
 - 6:45—7:45 pm Tech Session **1.0 PDH**

Main Meeting **Presentation :** Engineers Are the Physicians of the Future
1.0 PDH **Presenter Bio:** Dr. Stephanie Taylor graduated from Harvard Medical School in Boston, Massachusetts, and worked as a pediatric oncologist and cellular biologist for several decades.

Alarmed by the high number of patients acquiring infections during their inpatient treatment, she became convinced that the hospital built-environment played some role in these problems. Realizing that she knew little about the design and management of buildings and mechanical systems, she returned to school in 2005 to obtain a Master's degree in Architecture and then spent several years designing hospitals.



Dr. Stephanie Taylor, MD
Taylor Healthcare Consulting

Dr. Taylor, now the CEO of Taylor Healthcare Consulting, works nationally and internationally as a research leader to better understand how the design and operation of hospitals, offices, schools and all occupied buildings can help people thrive, not merely survive.

She has published in Nature, Science and other peer reviewed journals, is a Distinguished Lecturer for ASHRAE and a columnist for Engineered Systems magazine. She received the, "Women To Watch in the HVAC Industry" award in 2019. She is also a member of the ASHRAE Environmental Health Committee and the ASHRAE Epidemic Task Group.

Presentation Overview:

Dr. Stephanie Taylor will discuss the proper humidity range for design of building HVAC systems and how increased humidity levels may help to lower the rate of infectious disease transmission.

Tech Session **Presentation:** Isothermal Humidification

1.0 PDH **Presenter Bio:** Thomas Klein, MBA is the Eastern Regional Manager for Condair Inc. (formerly Nortec Humidity) and holds an MBA from Penn State University in International Business and Logistics. With over three decades of experience and employment with some of the most known and respected consumer and industrial corporations in the world, including 3M, GE and Beiersdorf AG, he brings a passion to help his clients and end customers uncover needs and solve problems for the benefit of all parties. He is well versed in a multitude of applications and utilization of humidification, energy reduction and evaporative cooling within HVAC, Data Center and industrial markets.



Thomas Klein
Condair Inc.

Presentation Overview:

1. Why Humidify
2. Types of Isothermal Humidifiers
3. Steam Transport/Transmission
4. What Happens at the Point of Humidification
5. Humidity Control of the System

Notes To RSVP [CLICK HERE](#)
Meeting is free to all attendees

President's Message

Hi Everyone,

Thank you all who attended our first virtual meeting on September 15! We had excellent presentations on "Large Passive House Building HVAC The New England Experience" presented by Mike Woolsey and "Building Investigations Using Thermal Cameras" presented by Lew Harriman.

We are looking into an outdoor fall event for the Diversity in ASHRAE (previously Women in ASHRAE) group. Stay tuned for more updates on this, we will send out invitations to everyone through the website as soon as the plans are finalized.

Our October virtual meeting is coming up fast on October 13. More information is available within this newsletter or on the website. It will be the same format as the previous meeting, and both the technical session and main meeting are PDH approved, so be sure to let us know if you require PDH credit when you register. 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,



Deanna Adkison
ASHRAE Boston Chapter President



Deanna Adkison
(Fitzemeyer & Tocci)
Boston Chapter President

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, Allison Bookstein, at northeastaire@gmail.com if you have questions or want to purchase an employment ad.

New Member Welcome!

On behalf of everyone at Boston ASHRAE, please help us in welcoming the newest members of our Chapter!

- Michael Browne
- David McGann Jr.
- Kevin Baines
- Daniel Melish
- Dr. Jurgen Michael Lobert
- Pradeep Mulage
- Justin Walsh
- Glen Fox Jr.
- Yelena Konstansky

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

EVENTS CALENDAR

Date	Event	Location	Main Meeting	Tech Session
October TBD	DiA Event	TBD	Hopeful in Person Outdoor Event	
October 7, 2020	AEENE Meeting	Online	A Conversation with Ben Myers of BXP	
October 13, 2020	October Meeting	Online	Dr. Stephanie Taylor—Healthcare IAQ, Distinguished Lecturer (5:30—6:30) 1.0 PDH	Thomas Klein—Isothermal Humidification (6:45—7:45) 1.0 PDH
November 10, 2020	November Meeting	Online	Paul Bemis—The Role of HVAC Systems in the Transmission of COVID-19	
December 8, 2020	December Meeting w/ ASPE	Online	Refrigeration Fundamentals—Allison Bookstein 1.0 PDH	Piping Fundamentals
January 12, 2021	January Meeting	TBD	TBD	
January 2021	DiA Event	TBD	TBD	
February 9, 2021	February Meeting	TBD	Steve Tafone—Controls Fundamentals	Eric Edman—Chapter History
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 most up to date information!

[Boston ASHRAE Facebook](#)

[Boston ASHRAE Twitter](#)

[Boston ASHRAE LinkedIn](#)



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

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



AHR[®]

E X P O

CHICAGO

2021



The AHR Expo, ASHRAE and AHRI have made the difficult decision to postpone the January 25-27, 2021 dates. The Show has been offered dates 7 weeks later and we are cautiously optimistic about conducting the Show in person March 15-17, 2021. We are exploring the feasibility in hopes that the State of Illinois will grant their blessing for us to host the Event in the most safe and successful way possible. Please stay tuned for a final decision on or before October 15th. Thank you to the entire HVACR Community for your continued support and patience!

[Learn more](#)



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COVID-19 (CORONAVIRUS) PREPAREDNESS RESOURCES

The ASHRAE Epidemic Task Force Provides Guidance For Polling Place HVAC Systems.

HVAC&R systems play an important role in minimizing the spread of harmful pathogens, and ASHRAE is ready to provide technical resources and answer questions. For the complete bulletin visit this link, [Guidance For Polling Place HVAC Systems](#)



DOE Plans 10 Virtual Sessions for the Solar Decathlon

The U.S. Department of Energy (DOE) is hosting a series of educational programs on various aspects of the [Solar Decathlon](#). For more information on these free webinars, click on the links below:

- [Solar 101 – How Solar Energy Works](#) | Wednesday, September 16, 2020, 1–2 p.m. EDT
- [Discovering Clean Energy Careers](#) | Wednesday, October 14, 2020, 1–2 p.m. EDT
- [A Virtual Hands-On Energy Workshop for Families](#) | Wednesday, November 18, 2020, 1–2 p.m. EDT
- [Solar Student Leaders of Tomorrow Showcase](#) | Wednesday, December 16, 2020, 1–2 p.m. EDT
- [Resilient Home 411: Strategies to Weather and Recover from Natural Disasters](#) | Wednesday, January 20, 2021, 1–2 p.m. EDT
- [Zero Energy Ready Homes: New and Growing Fast](#) | Wednesday, February 17, 2021, 1–2 p.m. EDT
- [The Future of Solar: A Tour of Cutting-Edge Solar Research with the U.S. Department of Energy](#) | Wednesday, March 17, 2021, 1–2 p.m. EDT
- [Solar Decathlon Build Challenge Team House Tour](#) | Friday, April 16, 2021, 1–2 p.m. EDT
- [Winning Solar Home - The DOE Solar Decathlon Build Challenge Winners](#) | Wednesday, May 19, 2021, 1-2 p.m. EDT

Will Fisher
Government Affairs
c001gac@ashrae.net



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>475</u>	<u>150</u>		<u>230</u>	<u>60</u>				<u>650</u>

Research Promotion

Dear ASHRAE Members,

Thank you for your support to help us exceed our fundraising goals for 2019-2020. Last year we raised \$29,482, Let's do it again! Our goal for 2020-2021 is to raise \$27,300 for ASHRAE Research Promotion. We have raised \$770 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
c001rp@ashrae.net



Refrigeration Column

How deep of a vacuum should an HVAC system have before charging?
As always, you should check the installation manual. This summer I installed a residential central air unit with R-410A, for a friend and the manual said to leave the vacuum pump on until it reached below 500 microns. 500 microns has been the standard since I started in the business (in the days of R11, R12 and R502). I later worked on a different piece of equipment, a mini-split heat pump that also used R-410A. This system required a vacuum of 200 microns. Moral of the story, read the manual before the installation instead of after the installation when it doesn't work correctly.

Steve Tafone
Refrigeration Chair
c001ref@ashrae.net



Steve Tafone
Suffolk Construction

OCTOBER PET OF THE MONTH!

Hugo!

Hugo is a 4 year old Maltese. His favorite toy is his soccer ball. You will usually find it in his mouth or beneath his head serving as a pillow! He loves to sleep in the sun or tucked under blankets.

When he isn't sleeping, he works as the toughest 9 pound watchdog on the block! Hugo served as the ring bearer in his parents wedding last month!

Nominate your pet by emailing a picture (or a few) and small bio to northeastaire@gmail.com!



Historical News

By: Eric Edman - BR+A



Eric Edman
Historian

Every year, ASHRAE society has some new goals for the chapters as a whole as well as goals for individual committees, including us historians. This season, we were challenged by ASHRAE Headquarters to promote the 125th anniversary of ASHRAE, and perhaps mix this into history. Promoting our founding, and our anniversary is a great idea, I will take that as a challenge to come up with historical items that are near and dear to us Bostonians. The challenge is on!

It makes me quite proud to belong to this esteemed organization and to represent all that it stands for. As a very famous person once said, ask not what ASHRAE can do for you, but what you can do for ASHRAE. I will challenge each of you to do something for ASHRAE this year. However small you may think, your contributions matter.

If we are 125 years old, and we do some quick math, ASHRAE started in 1894-95. To set the record straight, we actually started as other organizations -which went thru mergers to become ASHRAE in 1959-60. So... what was an engineer in this business doing in 1895?

Well, certainly not designing air conditioning systems. You probably were designing steam heating systems, and ventilation systems, so it sort of makes sense ASHVE started before ASRE. If you need help with the acronyms and our roots, you are going to have to email us.

For this month's special feature, I wanted to go back before 1895 and talk about something we all love. ICE. No, not the kind we slip on outside in winter. The kind that is in cube form and goes into a glass to chill your favorite adult beverage. We can all raise a glass, and toast a person who is dubbed the "Ice King". Who would have ever thought this person was a native Bostonian? Not me. Well, it is interesting how I stumbled into this month's feature but, lets focus on the story.

The "Ice King" title belongs to Mr. Fred Tudor. Mr. Tudor was born right here in Boston in 1783, and even died here in Boston in 1864. He is buried in the oldest cemetery right smack dab in downtown-yes, the Kings Chapel. Mr. Tudor had the fortune of being born into a wealthy family and had- by his own choice-

declined to go to Harvard University. At age 13, he focused on business- plain and simple. After a visit to the Caribbean, he came up with the bright idea of harvesting ice from New England and selling it in the Caribbean islands. Lucky for him, his family had a home in Saugus with a nice clear water pond for an ice supply. By the age of 23 (1806), Mr. Tudor bought himself a boat to haul ice to the island of Martinique. Although the



trip was three weeks long, he did manage to sell the remaining ice and he lost about \$4,000. He continued undeterred, and shipped another load to Havana (Cuba was once a direct port of call) and again lost money. But the idea was born. Mr. Tudor, and his ice company were learning; by 1816 they had an ice house in Havana and turned a profit! By 1825 Mr. Tudor was living the

<https://www.youtube.com/watch?v=K5kve4BCi0>

Historical News continued

high life and sales were doing well. He partnered with Nathaniel Wyeth who invented a horse drawn ice cutter which tripled production! By 1833, they found they could ship ice as far away as India. India remained the most lucrative market with Calcutta leading the demand. They even had ice shortages and you needed doctor's orders to get ice in India. Back here at home, many of you locals know Fresh Pond in Cambridge. Many of you suburbanites have dipped your toes in Walden Pond. Both ponds had railroads built to them to haul the harvested ice to ports in winter -and double duty- take swimmers to the cool ponds in summer. So, you could say built some of our local railroads were built because of the ice. You may appreciate that a ton of air conditioning is 2,000 pounds of water in solid form; not a light load by any stretch! Of course they needed trains to haul all that weight!

Certainly we all can understand that electric refrigeration and freezers had made all of this cutting ice from ponds unnecessary by about the 1930's. It remained quite stylish to get blocks of ice delivered up until the 1950's. My mother in law still has the ice box that she used to cool the old fashioned Coca Cola bottles her mom enjoyed up until she died in the early 1960's. I love looking at that old ice box, and knowing what it meant to so many. A cold drink on a hot day was a treat for everyone. It still is. History has not changed all that much at the core.

So that is this month's short story of a small piece of our local history. The rise and fall of an ice empire.

As an interesting side note, The Tudor Ice Company reopened in 2014 and they sell distilled water that you can freeze yourself. (The company formed from direct descendants too) I may just bring a big old block of ice to my mother in laws and put some select beverages in that old ice box next summer!

Mr. Tudor was one to give back. A quality I admire deeply. He realized the sawdust he used to keep his ice from melting took trees from nature, and none of you can think of New England as barren of trees. New England trees built our Navy, our factories, and our homes-many of which still survive. Many of you locals know the town of Nahant. It was once treeless. Mr. Tudor inherited his father's family grounds in Nahant, and constructed his summer cottage in the center of town. He started growing trees and planting them all over. He even offered trees to all in town for free if they planted them. Today, every tree you see on Nahant is thanks to the Tudor family and the Ice business. The family grounds today form the Nahant Country Club.

Next time you are dehydrated and then enjoy a frosty cold beverage with ice cubes, you can thank of the "Ice King" and how all this came to be from someone who never went to college and simply had a vision.

I'll say my hat is off to you Mr. Tudor, the world is definitely a better place thanks to you.

Eric Edman
c001his@ashrae.net



<https://www.youtube.com/watch?v=7abH1TnwD7k>



CELEBRATING 125 YEARS

Student Activities

By: Yuka Narisako

Hello ASHRAE Boston Chapter, and welcome back to our student members, whether on campus or remote!

This year, I will have Colin Boyd as a co-chair for the Student Activities Committee with the intent for him to take over as the Student Activities Committee Chair over the course of this academic school year. It is bittersweet but I am delighted that I can leave this role in capable hands.

In the same fashion as years previous, our annual ASHRAE Boston Chapter scholarships will be managed by the society, but the Boston Chapter BOG will still be ultimately responsible for the selection of our recipients. Scholarship information will follow in the November newsletter, so please stay tuned for any student enrolled in an engineering program that may be interested!

As is tradition, the ASHRAE Boston Chapter is anticipating handing out annual Student Branch Support Checks to our student branches. Please keep an eye out in your inbox for information regarding these checks if you are a student branch advisor.

The Boston Chapter is incredibly fortunate to have a strong network of experienced, helpful members, as well as student branch advisors who are engaged in their student branches. I look forward to being a helpful resource to more student members, and student branch advisors. I hope our student branches are will take advantage of ASHRAE as a professional and educational resource this year!

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



Yuka Narisako
Student Activities Chair

Infinite Minded Leadership Encore

October 6, 2020 at 2:30 pm CST
Cost: \$10 USD non-refundable

What game are you playing? Is it all about short term, quarterly outcomes or long-term transformational impact? Being tactical and clever allows you to meet corporate targets. Short term wins are important, required and can serve as stepping stones to bigger and more significant outcomes. The risk is if you get too caught up in the short game, you will have no long game. As a leader, at any level, and with title or without, are you aiming high enough and dreaming big enough? To be a difference maker and put a dent in the universe, you must aim high, really high. That means having an infinite vision. That of course means you will never fully arrive because infinity is not a destination. It's all about the journey, an iterative and ever-evolving one that you have the ability to shape and implement.

Ralph Kison will conduct his second YEA webinar on developing the mindset and behaviors of an infinite minded leader.

He will discuss how you can be an infinite minded leader by:

- Focusing on a cause and purpose that transcends hitting goals
- Being a transformational leader that creates willing followers
- Creating a community of Blue Water leaders who are "Challengers" that improve, innovate and regenerate their environment
- Leveraging the COVID crisis as an opportunity to advance while others retreat
- Building a team or an organization that is resilient and inspiring
- Having the courage to lead based on your convictions and values

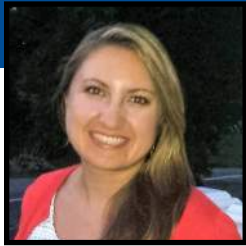


Registration opens Wednesday, September 23rd at 12 noon
(EST)

Registration is first come, first served. There are only 75 spaces available.

Register

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<p>Diversity in ASHRAE Erica Norquist Fitzemeyer & Tocci</p> <p>Amy Gebhardt Victaulic</p>	<p>Honors & Awards & Nominating Bob Persechini NV5 c001ha@ashrae.net</p>	<p>Reception Soren Ruvolo BR+A c001mem@ashrae.net</p> <p>Lucas Rowe Accuspec Inc. c001gacc@ashrae.net</p>	<p>Student Activities & Scholarship Yuka Narisako BR+A c001sa@ashrae.net</p>	<p>Willie Dawkins HTS</p>
<p>Golf Outing Will Mallia BR+A c001golf@ashrae.net</p>	<p>Membership Promotion Lucas Rowe Accuspec Inc. c001mem@ashrae.net</p> <p>Alex Gilman BR+A c001memc@ashrae.net</p>	<p>Refrigeration Steven Tafone Suffolk Construction c001ref@ashrae.net</p>	<p>Sustainability Vineet Nair CRB c001sus@ashrae.net</p>	<p>Corporate Sponsorships Bob Persechini NV5 c001ha@ashrae.net</p>