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## SEPTEMBER MEETING

**When:** September 15, 2020  
5:30 — 7:45 pm

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

**Details:** Main Meeting (6:45—7:45) **1.0 PDH**  
Presenter: Lew Harriman  
Topic: Thermal Imaging for Buildings

Tech Session (5:30—6:30) **1.0 PDH**  
Presenter: Mike Woolsey  
Topic: Large Passive Building HVAC—The New England Experience

## BOSTON CHAPTER OFFICERS 2020-2021



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## September Meeting - Tuesday September 15th, 2020

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

**Tech Session** **Presentation :** Large Passive Building HVAC—The New England Experience  
**1.0 PDH** **Presenter Bio:** [Mike Woolsey](#) first became interested in building energy use during the oil embargo of the 1970s. Ongoing curiosity about building systems led to a career in the HVAC industry that launched in 1985, while he was still completing his BSME degree from Washington University in St. Louis. Now a Certified Passive House Designer, Mike specializes in product and system applications, market management and business development and has presented on ventilation topics in the United States and abroad at hundreds of seminars. An active member of ASHRAE, Mike is a voting member of ASHRAE SPC 227P Passive Building Design Standard, and was previously a voting member of SSPC 170 Ventilation of Health Care Facilities. Mike currently serves as Business Development Manager in the Commercial Ventilation group of Swegon North America, a wholly owned subsidiary of Swegon AB, with 1500 employees and annual sales of over US\$600M worldwide.



Mike Woolsey  
Swegon

**Presentation Overview:**

1. Understand the benefits of energy recovery ventilators in general, with special focus on their benefits to the Passive House project.
2. Understand the properties of energy recovery ventilators that are most valuable on Passive House projects.
3. Understand the limits of energy recovery ventilators when applied on Passive House projects.
4. Understand the integration of energy recovery ventilators in the Passive House design, with case studies.

**Main Meeting** **Presentation:** Thermal Imaging for Buildings  
**1.0 PDH** **Presenter Bio:** [Lew Harriman](#) is the Director of Research & Consulting at Mason-Grant. Much of his work over the last 40 years has concerned humidity and moisture control in buildings and industrial processes, along with related phenomena which are affected by humidity and moisture, such as indoor mold, HVAC systems and the drying rates of materials and structures.



Lew Harriman  
Mason-Grant

Lew has served as a National Peer in the Construction Excellence Program of the Public Buildings Service of the U.S. General Services Administration. He is well-known as a writer and lecturer in North America, Europe and Asia. Lew is a Fellow and Life Member of the American Society of Heating, Refrigerating and Air Conditioning Engineers (ASHRAE), and in 2018 he was inducted into the Indoor Air Quality Hall of Fame by the Indoor Air Quality Association. Lew is the author of The Dehumidification Handbook published by Munters Corporation, and was the lead author and project manager for both the ASHRAE Humidity Control Design Guide and The ASHRAE Guide for Buildings in Hot & Humid Climates. He also wrote the California Builder's Guide to Avoiding Mold Risk, and served as the Chair of ASHRAE's Presidential Committee on Indoor Mold. He is an active member of ASHRAE's Technical Committee 1.12 - Moisture Management in Buildings.

**Presentation Overview:**

1. Thermal Imaging: The Basics
2. Three facts about thermal imaging and buildings
3. Examples of useful (and less-useful) images
4. Case Histories using thermal cameras for building investigations

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

## President's Message

Hello everyone, I am excited to be welcoming you back to another year of ASHRAE!

Our past president, Mark Leonard, lead us through some very difficult times closing out the end of last year and I intend to pick up where he left off and keep moving with strength through this upcoming season. We owe him our gratitude in starting some meaningful initiatives within the chapter organization and taking charge in ensuring we dealt with the uncontrollable circumstances that came up in the spring. Thank you, Mark, for all your hard work and dedication!

As president this year, I intend to make sure that you continue receiving the same quality of technical presentations that you have become accustomed to at our monthly meetings. During our planning meeting it was decided that all our upcoming technical sessions and main meetings will be held virtually through GoToWebinar until 2021. At that point, we will reevaluate and plan according to the current guidelines to see if in person meetings are an option at that time. We are holding dates at our usual meeting locations for the 2021 meetings in hopes of meeting in person again at some point this year. Thank you to all the hard working volunteers that have been coordinating behind the scenes throughout the summer to make sure we were able to start right away in September with our first virtual meeting. Please make sure to register and do not hesitate to ask me, or any of our other volunteers, any questions you might have about the upcoming year.

The Chapters Regional Conference (CRC) for Region 1 was held virtually this year August 13-15. Although it lacked the very social environment we are used to, the virtual meetings were well attended, and it was good to reconnect with many of the other chapter's volunteers. We are always looking for new volunteers within the Boston Chapter, please reach out to me if you would like to get involved. We have another strong and supportive group this year that I believe will continue to make Boston a very successful chapter.

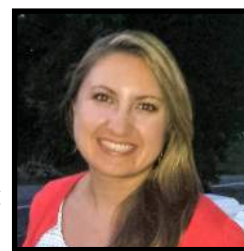
I hope to "see" you all at our first virtual meeting on September 15<sup>th</sup> via GoToWebinar. We have excellent topics on Large Passive House Building and Building Investigations Using Thermal Imaging Cameras. Read the previous page for more info on these upcoming presentations. Registration will be done online through the link on the previous two pages of this newsletter.

Please email me at [c001@ashrae.net](mailto: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  
(Fitzmeyer & Tocci)  
Boston Chapter President

### Welcome New Chapter Officers

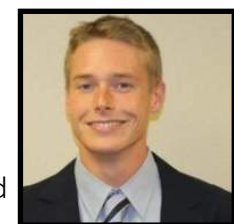
There are two new names and faces for our Chapter Officers. Please help us welcome Vineet Nair as our new chapter secretary. Not only does Vineet hold multiple positions (secretary and sustainability chair) in our local Boston Chapter, he also serves on multiple technical committees with ASHRAE Society.

- Vineet Nair, LEED AP BD+C, is an Engineer at CRB Consulting Engineers, Inc. Vineet holds a Bachelor's degree in Mechanical Engineering from University of Mumbai and a Master's degree in Sustainable Systems from Rochester Institute of Technology.
- Vineet serves as a provisional corresponding member on ASHRAE technical committees 9.11: Clean Spaces, 9.10: Laboratory Systems and 2.8: Building Environmental Impacts and Sustainability.

Vineet is joined by William Fisher who is the new Boston chapter treasurer. Will also serves as our Government Affairs Chair and is a member of the Board of Governors. Both Vineet and Will's contact information can be found on the last page of the newsletter. Welcome Vineet and Will!



Vineet Nair



Will Fisher

# COVID-19 (CORONAVIRUS) PREPAREDNESS RESOURCES

From building managers to policymakers, everyone is looking for guidance with the proper handling of COVID-19. The Boston Government Affairs Committee (GAC) met with US and State senators to offer the experience and expertise of our ASHRAE membership. If you're interested in contributing to the efforts of ASHRAE GAC, contact Will Fisher at [c001GAC@ASHRAE.net](mailto:c001GAC@ASHRAE.net)

Useful Resources:

- [MassSave COVID-19](#)
- [ASHRAE Technical Resources](#)
- [ASHRAE Position Document on Infectious Aerosols](#)

Will Fisher  
Government Affairs  
[c001gac@ashrae.net](mailto:c001gac@ashrae.net)



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Manufacturers' Representatives & Distributors



**S. J. GINNS ASSOCIATES, INC.**  
Manufacturers Representative Heating & Air Conditioning Equipment

# Tighe & Bond

The **HVAC Project Engineer** will join our Building Services Team in our Westwood, MA office and will work on multi-disciplinary projects with staff from our eleven northeast regional offices.

At **Tighe & Bond**, we pride ourselves in fostering a learning environment where our employees can grow and thrive. Our friendly company culture is small enough to celebrate personal milestones and recognize individuals for their contributions and we are committed to the well-being of our employees, the communities where we work, and the environment in which we live.

## Qualifications:

- BS degree in Mechanical Engineering; PE license required
- 10+ years of experience preferred
- Familiarity with all different types of HVAC systems
- Exposure to designing mechanical systems in a variety of industries including Healthcare, Municipal, Commercial, Higher Education, Laboratory, and Industrial applications;
- Proficient in Revit and AutoCAD MEP
- Knowledge of ASHRAE Standards and building codes
- Experience with construction administration tasks

## HVAC Project Engineer

Location

**MA-Westwood**

Division

**Building Services**

## Responsibilities:

- Develop mechanical system concepts and perform HVAC load calculations using Trane Trace
- Develop mechanical air, hydronic, and steam system drawings, details and schematic diagrams
- Size and select mechanical system equipment
- Perform field surveys of existing mechanical systems
- Prepare technical specifications
- Mentor junior staff
- Prepare mechanical system evaluations, studies, and reports
- Review equipment submittals and respond to contractor questions during construction
- Work on interdisciplinary teams and coordinate design with other disciplines
- Work on multiple projects and meet project requirements and deadlines

Our best-in-class compensation and benefits package includes competitive salaries, profit sharing, an employee wellness program, a generous health care plan, life and disability insurance, flexible spending accounts, ESOP, 401(k) plan, PTO, internal training and professional development, and a tuition reimbursement program.

**Tighe & Bond** is a growing, well-established, employee-owned, engineering and environmental consulting firm with 400 employees. A Top 10 New England ENR design firm, Tighe & Bond was recognized by Civil Engineering News and Zweig Group as one of the “Best Firms” to work for in the country. Our team of engineers, scientists, planners, and other professionals provide creative solutions for critical challenges that impact buildings, sustainability, water resources, the environment, and climate change from eleven offices across Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and New York. The firm offers employees an inviting mid-size company culture, and an opportunity to develop a rewarding career that can have an impact on the environmental development of the Northeast region.

**Tighe & Bond** is an equal opportunity employer and affords equal opportunity to all applicants and employees for all positions without regard to race, color, religion, gender, national origin, age, disability, veteran status or any other status protected under local, state or federal laws.

✓ [Apply Now](#)

# EVENTS CALENDAR

Date	Event	Location	Main Meeting	Tech Session
September 15, 2020	September Meeting	<a href="#">Online</a>	Low Harriman— Building Investigations Using Thermal Cameras 6:45—7:45 pm 1.0 PDH	Mike Woolsey—Integrating HVAC into Large Passive House Building Design 5:30—6:30 pm 1.0 PDH
September 16, 2020	September AEENE	<a href="#">Zoom</a>	Sustainable & Healthy Buildings 4:30—6:30 pm	
October	YEA Event	Online	TBD	
October 13, 2020	October Meeting	Online	Dr. Stephanie Taylor—IAQ & Humidification Distinguished Lecturer	
November 10, 2020	November Meeting	Online	Paul Bemis—The Role of HVAC Systems in the Transmission of COVID-19	
December 8, 2020	December Meeting	TBD	Refrigeration 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— <a href="#">Complete List</a>
Boston Chapter Special Events	YEA Events
WiA Events	Other Societies Events

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

## Infinite Minded Leadership

September 15, 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. (His last session sold out in under an hour!)

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 Friday, August 28th at 12 noon (EST)**

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

**Register**

### 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](mailto:northeastaire@gmail.com) if you have questions or want to purchase an employment ad.

# CANNONDESIGN

CannonDesign has an exciting opportunity for a Senior Mechanical Engineer based in our Boston office. If your skills and experience are a match for the position described below, we'd love to hear from you.

## ABOUT OUR FIRM

We are an integrated global design firm that unites a diverse team of architects, engineers, constructors, builders, strategists, researchers, and industry specialists driven by a singular goal – to help solve our clients' and society's greatest challenges.

## ABOUT THE ROLE

Successful candidates will direct the integrated design of HVAC systems for healthcare, research, education and commercial projects from conceptual design through construction, commissioning, and project close out.

## WHAT YOU WILL DO

- Perform and direct complex design of HVAC Systems including mechanical rooms, controls, ductwork, piping and equipment selection for large scale buildings.
- Ability to work independently in all Mechanical disciplines with no oversight or guidance.
- Oversee, guide, mentor and provide technical leadership to designers and engineering team.
- May serve in the QAQC process and an independent reviewer
- Interface effectively with clients and members of the design team.
- Prepare construction drawings and specifications for of HVAC systems from schematic through the construction document phases.
- Manage production staff and provide direction to them for preparation of construction documents.
- Select and specify mechanical equipment such as boilers, chillers, and air handling units.
- Design rooms to house these systems and coordinate with other disciplines.
- Review and accept selective shop drawings for compliance of specifications and contract documents.
- Interface effectively with clients and members of the project team and participate in meetings with Owners, Architects, Construction Managers and Contractors.
- Conduct staff development activities including work planning, budget development, scheduling in conjunction with the Project Manager.
- Perform independent site inspections.
- Lead or participate in commissioning or retro-commissioning activities.
- Represents company in project activities; directs activities of project team members; represents company in business development and marketing activities.

## ABOUT YOUR QUALIFICATIONS

- Qualified candidates must have a Bachelor of Science in Mechanical Engineering or Bachelor of Architectural Engineering (Mechanical systems focus).
- Minimum of 10 years of related experience and PE required.
- Must have strong communication, teamwork and collaboration skills as well as an ability to engage effectively with clients.
- The ability to handle multiple projects is essential.

## ABOUT WORKING HERE

- We are relentless in our pursuit of client adoration (not simply satisfaction). Consistent delivery of the best service is what we are about
- We know you have a life outside of the office. That's why we offer the convenience of flexible scheduling, including the ability to work remotely on occasion
- We are committed to ensuring our practice is equitable for all employees, representative of the communities around us – and focused on the future of design We advocate for equity, diversity and inclusion efforts through the leadership of our Diversity + Inclusion Council, Women's Forum, and other community advocacy initiatives
- We're about communication and transparency here. If you want to talk to someone about an idea you have, or a challenge that needs addressing, we're ready for you.
- The NEXT Council is a group of dynamic, multi-faceted employees that collaborates closely with firm leadership. Together, council members act as a catalyst for our practice's evolution – a think tank for innovation, improvement and growth.
- Please note that candidates can only apply to our positions on our company Careers site. It's not uncommon for scammers to create positions that look legitimate on other sites; never enter your information or apply for CannonDesign positions on any platform. Should an issue arise that you feel we should be aware of, please contact us. Please provide your resume and portfolio when applying.

[Learn more >](#)

\*TO VIEW OUR FULL POSITION DESCRIPTION AND APPLY, VISIT OUR CAREERS SITE AT [WWW.CANNONDESIGN.COM/CAREERS](http://WWW.CANNONDESIGN.COM/CAREERS)

## 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 \$570 so far this year.

You can start helping ASHRAE reach our goals by donating online at [www.ashrae.org/donate](http://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



## Boston Chapter Awards from ASHRAE Society for 2019-2020

- Research Promotion Awards:
  - Silver Treasury Ribbon—\$5,000—\$9,999 Chapter Investment
  - Top 5 Runner-up: Goal, Challenge Goal - Top five by chapter size runner-up for Goal and Challenge Goal
  - Chevron—Endowment—A new endowed Foundation gift was set up or a minimum of \$3,000 was given towards a previously existing fund
  - Chevron—Apex—a new high has been set consistently for the past 5 years
  - Certificate of Achievement awarded to Deanna Adkison—Goal, High Five & Challenge Goal—Given for matching or exceeding the Goal and the Challenge Goal as well as setting a new high in dollars raised by the chapter in the last 5 years



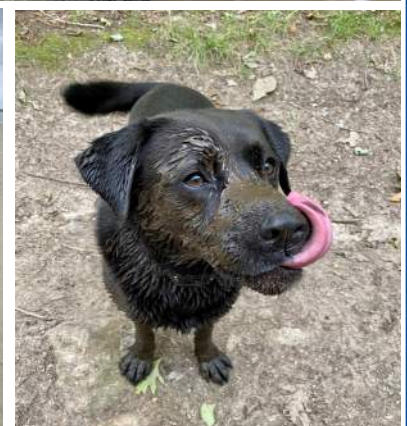
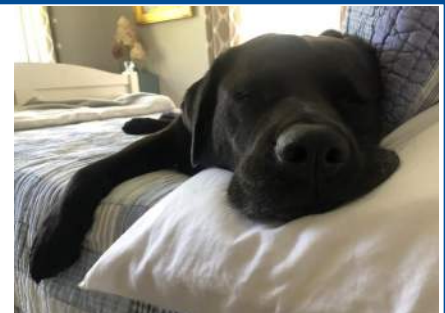
Congratulations to CMTA who won the Boston Chapter Technology Award for their project Harvard University Massachusetts Hall. Good luck competing for the Region I Award!

## SEPTEMBER PET OF THE MONTH!

### Taz!

Full disclosure, Taz is my dog, me as in Allison Bookstein, the newsletter editor. So I was completely biased to pick him but I could since no one else submitted their pets this month! Taz is a rescue who is approximately 4 years old and was rescued 3.5 years ago. He often lives up to his namesake, the Tasmanian Devil. He loves counter surfing for butter sticks, cuddling, playing, swimming, and mud bathing! We tested his DNA and he is 3/8 Lab, 1/4 Boxer, 1/4 Chow, and 1/8 mutt. He has gotten into two fights with porcupines and lost both times. I am utterly obsessed with all dogs (and animals) and I hope he inspires you to submit your pets for pet of the month this year!

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



## History Special Feature

By: Eric Edman - BR+A



Eric Edman  
Historian

Many of you may not know that our fun loving chapter is #001 within Region #01. Region #01 is composed of 15 chapters from all six New England states, New York, and Northern New Jersey.

Annually, all 15 chapters get together to talk ASHRAE at the Chapters Regional Conference (CRC). Exciting stuff, I know! Normally, the historian from each chapter would bring something wicked old to put on display. Over the years we have all displayed some creative things. Since 2020 is anything but normal, we held a virtual CRC meeting for the historians and our attendance actually increased! I know, really cool. A bunch of old guys talking about Stoichiometric combustion right-WRONG.

All historians were challenged to submit a historical photograph. Yours truly went into an old building, and took a picture of a still operating fan from 1953! They laughed and said, no, we want a picture of what items you were going to bring if we were meeting in person. Luckily, I happened to have our old chapter banner- and a bunch of old duct-u-lators (I collect them) and submitted a photo of those. We did get 100 PAOE (Presidential Award of Excellence) points for that.

I was still interested in that old fan, still operating, with a newer motor, but still operating. The nameplate said, "Sturtevant Silentvane Model 550 Hyde Park, Mass." My curiosity got the best of me and I Googled the name. Up popped a link with the history of [B.F. Sturtevant](#), America's First Fan Company, founded in 1860. Something to note, a goal for the chapter historians this year is to increase chapter awareness that ASHRAE Society is celebrating our 125<sup>th</sup> anniversary. ASHRAE was founded in 1895. I happened upon an HVAC company that predates ASHRAE's founding while looking for something old to show to my fellow ASHRAE historians.

I was reading the history of the Sturtevant Fan Co. and am just amazed at the founder's abilities. Benjamin Franklin Sturtevant was born in Maine in 1833 and worked as a shoemaker. Using his mechanically inclined mind, he designed a practical shoe pegging machine that could replace the labor-intensive job of whittling wooden pegs by hand. Shoes in those days used wood pegs to attach uppers to the soles. At age 23, he left Maine with 20 cents and came to Boston in search of a financial backer for his shoe pegging machine. The shoe pegs made a lot of sawdust. The ever-industrious mind sought a way to help his employees who were bothered by the sawdust from the wood pegging. BF Sturtevant designed a machine that exhausted the wood dust away from the workers. Just like that, an industrial material handler fan was born. By 1866 the business had taken off and the fans were being

**How much *Air* to make a Flat-top Breathe?**

WE THINK YOU'LL BE AMAZED at the colossal quantities of "Air-at-Work" needed to keep that flat-top in fighting trim. First, there's air for the carrier's boilers - squeezing the last knot of speed from every drop of fuel-and supplied by Sturtevant Forced Draft Blowers roaring into the fire box. Add to this the vitalizing air below decks-getting top efficiency from men and equipment - whirled through a network of ducts by Sturtevant Ventilating Fans. Total up one day's work for the Sturtevant Fans on a 25,000-ton carrier of the Essex class,

and the air delivered weighs more than *three times* the ship's displacement - more than one billion cubic feet of air "breathed" every 24 hours!

Of course, these are no ordinary fans-but the new Sturtevant Victory Axiflos that save up to 40% in space, 15% in power, over fans formerly used. As they're going aboard fighting ships exclusively, we must ask you to wait-for the benefits that will come when the Victory Axiflo "Puts Air to Work" for you.

Aboard a CVF class carrier, Sturtevant Fans deliver air for forced draft, and ventilation of working and sleeping quarters-a total of 82,000 tons of air every 24 hours.

**Sturtevant**  
*Puts Air to Work*

When "Air at Work" lends a hand, your men and machines can work better, too. Sturtevant's war-proved experience is ready NOW-to expedite your postwar plans by using *engineered air* to heat, dry, air condition, ventilate, convey, control dust and fumes or burn fuel more economically.

B. F. STURTEVANT COMPANY  
HYDE PARK BOSTON 36, MASS.

B.F. Sturtevant Wartime Advertisement

## History Special Feature continued

used for forges, cupolas, boilers, combustion air for ashpits and more. The company moved out of Boston and into a factory in Jamaica Plain (and on to Hyde Park after that). Sturtevant added a steam engine to his fan to introduce large volumes of heated air throughout a space. Heaters and drying apparatuses with the fans provided complete heating and ventilating systems.

Have you ever heard the term “batten down the hatches”? Maybe some of you sailor types know that hatches on ships are used to scoop air into the bowels of the ship. During storms sailors used to literally batten down the hatches so water wouldn’t get in. When the hatches were closed, the air below deck became stale quickly.

Sturtevant saw a way to ventilate the cores of ships with his fans and ducts, and by 1879, the USS Richmond was the talk of the US Navy. They had ventilation! The chief engineer even proclaimed, “The Richmond is the most healthful, completely ventilated ship under the US flag or any other”.

My hats off to you, Mr. Sturtevant! I can only think how happy people were with the advent of ventilation below decks to help remove the stench of vomit, body odor, etc.

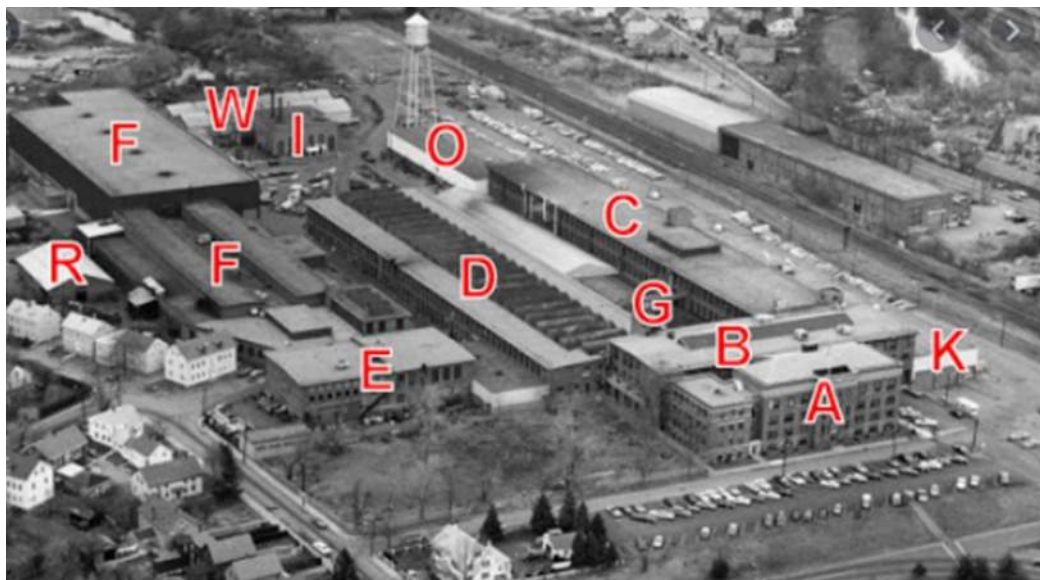
Sturtevant was still not done. By 1886 he had adapted his fans to mechanically draft the steam engines on Navy ships, this greatly increased steam output on the USS Alliance. With the boosted performance the Navy was able to reduce the amount of time sails were required and saved a ton of weight by removing two of the six boilers. Navy history was made right here in Boston. B.F. Sturtevant became the primary supplier of air handling equipment to the US Navy thereafter and through WW2. From Pearl Harbor to VJ Day in WW2 the Sturtevant factory produced over 40,000 fans used for everything from submarines to the USS Essex aircraft carrier (see photo on previous page). Teamwork. Love it.

Let’s return to land, shall we? Let’s talk about the father of modern air conditioning. You may know from a past article this title really belongs to Dr. Gorrie. We often attribute this title to Willis Carrier; sure, Carrier had fame from cooling a printing plant in Brooklyn, but he needed air moving equipment to do that. Back here in Boston in 1906, Sturtevant was responsible for the first industrial cooling process installation at the Walter Baker Chocolate factory in Dorchester, Massachusetts. Thanks again Mr. Sturtevant. Who doesn’t love chocolate!

Sad to say the 1960’s rolled around and some cost cutting measures went the wrong way. Sturtevant sold out to Westinghouse who turned things around with utility power plant ventilation but the continued decline was written on the walls. In 1989 the Hyde Park Facility was closed. 130 years of Boston history came to an end.

Today, the buildings remain intact, and have been converted into mixed use apartments and high bay manufacturing. It may be well worth my while to take a trip over and see what remains of our amazing heritage. Thanks again Mr. Sturtevant. We are all deeply indebted to your contributions to mankind.

Eric Edman  
c001his@ashrae.net



Photograph of Sturtevant Factory in 1976, Letters Identify Buildings That Are Part of the Factory



## Historical News

By: Eric Edman - BR+A

“What does the historian do?”

I was asked this question by an eager younger member who actually just wanted to know more about the officers, the board of governors (BOG), the committees, and committee members and how ASHRAE, and ASHRAE Boston actually function.

I was once that young eager new guy who wanted to make a mark in the HVAC field, so I relished the opportunity to answer.

I’ve been in ASHRAE my entire professional life, and I really have to admit- this is a very good question. I’d bet big bucks we would all have differing views and differing ideas on how, and what ASHRAE is, and does.

That is okay actually. The fact that there is so much room within ASHRAE, and our chapter- for people to get involved is what I love about this group. Despite all of our differences, we really are a great chapter. The diversity is incredible. The options are endless. It is simply put, “wicked awesome”.

As for what your historian does.

Well, it’s sort of implied that I am someone who stores our records. I do that, but we do it electronically today so “paper” is just a thing of the past. I can say this is great since our small closet is chuck full of old paper records of things. The Society (our headquarters) actually has a printed manual of chapter operations and there are “things” in there that your favorite historian is supposed to do. Actually, I’m expected to come up with a game plan for the year. We call this MBO-or managing by objectives and much (not all) is repeated year after year. Since I’m not dead yet, I actually try my utmost to make this history stuff come alive and be fun. Fun stuff we remember, old boring stuff, well, into the closet it goes. I’m expected to host a history night once a year, and invite all our PP’s and LM’s. That’s past presidents and life members to you common folk. They all get an old fashioned letter in the mail from that crazy historian you elected.

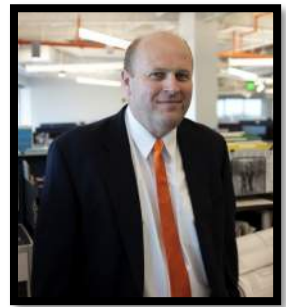
Besides all that, there are special things I am supposed to do to get PAOE points. Presidential Award of Excellence points. The person with the most PAOE points in their chapter -by meeting all their MBO’s- gets an all expense paid trip to Hawaii . Pretty cool huh? No such luck I’m afraid. Special things are worth more points, so, I did research into the history of our own chapter. I have to say I was forced to learn how to make my own power point presentation (I get no points for that). I have done some other research into the history of the father of air conditioning and other items brought to life by me on occasion at monthly meetings. I really try to add as much joviality into all this as well. Engineering can be quite boring. Sharing this with you guys is what keeps me going. Laughter is good medicine.

I’ll be happy to educate anyone who wants to know more. Actually, I could use a hand with history. If any of you want to be so bold as to get off your chair and help, we can talk. Even your heartfelt suggestions on research into things helps. I might add, if any of you have old pictures of ASHRAE events-share them please. special ideas- send ‘em in.

I will wish you all well for the ending of summer and gearing up for fall. I can only say how much I look forward to seeing all of you at monthly meetings. Until then...

Eric Edman

c001his@ashrae.net



Eric Edman  
Historian

Presidential Award of Excellence							ASHRAE Boston Chapter		
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>450</u>			<u>100</u>	<u>40</u>				<u>550</u>

Stay tuned next month to see the complete list of chapter awards and total PAOE points from the 2019-2020 year!

## ASHRAE Learning Institute Announces 2020 Fall Online Course Series

*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.

"ASHRAE's online course series successfully engages built environment professional through in-depth, practical instruction on a wide variety of topics," said Charles E. Gulledge III, P.E. "This course series is structured to expand knowledge and provide professionals with an exceptional level of understanding to address today's building challenges."



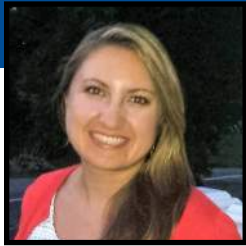
[Evaluating Your HVAC System's Readiness to Mitigate the Spread of SARS-CoV-2](#) expounds on the online ASHRAE COVID-19 details for reopening buildings and the Building Readiness Plan for HVAC systems. The course will focus on the re-occupancy of existing buildings through the evaluation of HVAC systems and how they can be altered to improve their ability to mitigate the transmission of a virus, like SARS-CoV-2 that creates the COVID-19 disease and how to potentially future proof them for the next epidemic.

Three-hour short courses are \$299 (\$224 ASHRAE Member), two-hour courses are \$198 (\$149 ASHRAE Member) and one-hour courses are \$99 (\$74 ASHRAE Member).

The following is the full fall online course series schedule:

Date	Topic
10-Sep-20	<a href="#">New - An Introduction to ASHRAE Existing Building Commissioning Process</a>
16-Sep-20	<a href="#">Updated - Air-to-Air Energy Recovery Applications: Best Practices</a>
22-Sep-20	<a href="#">New - Humidity Control: Avoiding Five Common Design Problems</a>
23-Sep-20	<a href="#">High-Performance Building Design: Application and Future Trends</a>
24-Sep-20	<a href="#">New - Advanced High-Performance Building Design: Key Concepts for Lifelong Building Sustainability</a>
30-Sep-20	<a href="#">New - Evaluating Your HVAC System's Readiness to Mitigate the Spread of SARS-CoV-2</a>
6-Oct-20	<a href="#">Variable Refrigerant Flow System: Design and Applications</a>
8-Oct-20	<a href="#">New - Health Impacts of Indoor Air Extraction, Ventilation, and Filtration – Same or Different?</a>
12-Oct-20	<a href="#">Updated - Fundamentals of Ultraviolet Germicidal Irradiation (UVGI) for Air and Surface Disinfection</a>
13-Oct-20	<a href="#">New - The Commissioning Process and Stakeholder Management</a>
14-Oct-20	<a href="#">New - Smart Grid Systems, Applications and Integration with the Built Environment</a>
20-Oct-20	<a href="#">New - Hospital HVAC – Infection Mitigation, Comfort, Performance</a>
22-Oct-20	<a href="#">Humidity Control II: Real-World Problems and Solutions</a>
9-Nov-20	<a href="#">Guideline 36: Best in Class HVAC Control Sequences</a>
17-Nov-20	<a href="#">Advanced Designs for Net Zero Buildings</a>
3-Dec-20	<a href="#">Updated - Laboratory Exhaust Stacks: Safe and Energy Efficient Design</a>
8-Dec-20	<a href="#">Updated - Successfully Managing the Risk of Legionellosis Using Standard 188-2018</a>
15-Dec-20	<a href="#">Avoiding IAQ Problems</a>

# BOSTON CHAPTER OFFICERS



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