

2017-2018 Officers



Mike Gilroy
President



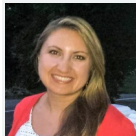
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Vice President



Christine Reinders
Secretary



Deanna Adkison
Treasurer

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April Meeting

Tuesday, April 10, 2018

Who: ASHRAE Boston Chapter

What: New Product & Energy Show

2018

16th Biennial Product Show 2018

Please see **page 3** for more information.

Where:

Lantana's
43 Scanlon Dr,
Randolph, MA 02368

- 1 Booth – \$1,000.00
- 2 Booths – \$1,900.00
- 3 Booths – \$2,700.00
- 4 Booths – \$3,600.00
- Big Rig Trailer Spot - \$2,000 (limited to 1 spot)
- Outside Parking Lot Spot - \$500 (limited to 8 spots)

Exhibitors - [click here](#) to register for a booth!

Exhibitors - [click here](#) to register for an

Special thanks to our 2017-2018 Sponsors:

Platinum:

[HTS New England](#)

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Gold:

[Victaulic](#)

Investor Recognition:

[Jim Armstrong](#)

[Lance Brown](#)

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[Eric Edman](#)

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[John Iacopucci](#)

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[Justin Mole](#)

[Bob Persechini](#)

[Christine Reinders-Caron](#)

[Steve Tafone](#)

[William Tang](#)

[Jeffrey Zajac](#)



Please register online at www.ashraeboston.org.

If you have any questions, you may contact Christopher Pietrocarlo, Attendance Chair, at ashraebostonattendance@outlook.com.

Thank You



PRESIDENT'S MESSAGE

By: Mike Gilroy

Thanks to all who attended our February meeting and thank you to our main meeting presenter, Andrew Krenning from Siemens (some of you may recognize him from the January Main Meeting Presentation...). Also, a big thanks to Jim King and Bill Gnerre from Interval Data Systems (IDS) who put together a stellar presentation for our technical session on ASHRAE 36P and the inner workings of an ASHRE Conference and creation of standards.

Our March meeting features ASHRAE Society President, Bjarne Olesen, Ph.D.. Mr. Olesen will be presenting on Energy and the Indoor Environment. Our technical session will include a CFD presentation focus on the use of CFD for Indoor Environment evaluations. We are extremely lucky to host these presenters and hope you have enjoyed the technical lineup that we've put together this year.

At our March meeting, we will also be welcoming AEE New England members as part of our yearly ASHRAE / AEE Joint Meeting.

Please feel free to contact me should you have any questions or concerns with regards to ASHRAE Boston Chapter. You can email me at coo1@ashrae.net. Your feedback is important to continued improvement at the Chapter level.

Later in March, we will be hosting a "Speed Networking" night in the Seaport. The event was created to promote inter-Chapter networking in the hopes of learning more about our attendees and engaging more to assist with Chapter Operations. Come out to meet other Chapter Members, Officers, the BOG, YEA, TOY, WiA, etc.! All are welcome.

As we look forward to April, we will be hosting our Product Show at Lantana's in Randolph, MA. This event occurs every other year, with tremendous support from our local equipment vendors and reps. Please stop in the early evening to take in one (or more) of the technical session and follow it up by walking the floor at the Product Show

Presidential Award of Excellence									
Boston Chapter - 2017-2018									
Chapter Members	Membership Promotion Points	Student Activities Points	Research Promotion Points	History Points	Chapter Organization Points	Chapter Technology Transfer Points	Grassroots Government Affairs Points	Electronic Communications Points	Chapter PAOE Point Totals
1052	850	535	790	270	1470	325	150	50	4440

April Meeting Information

New Product & Energy Show 2018

FREE ADMISSION AND FREE DINNER - [CLICK HERE](#) TO REGISTER (or register at the door)

16TH BIENNIAL NEW PRODUCT & ENERGY SHOW 2018 - BOOTH RESERVATION

Who: ASHRAE Boston Chapter and any who wish to attend! **When:** Tuesday, April 10th, 2018 running from 3:00pm to 8:00pm with dinner available from 6:00pm to 8:00pm.

What: New Product & Energy Show with Technical Seminars: **Where:** The Lantana, 43 Scanlon Drive, Randolph, MA 02368.

Presenter Name	Presenter Affiliation	Room	Time Slot	Topic
Mark Ehrenzeller	Frank I. Rounds	Regis	3:00 - 4:00 pm	Designing Steam Systems and their Components
TBD		Mediterranean	3:00 - 4:00 pm	Passive House building standard compared to LEED & Beq and energy use and consumption
TBD		Essex	3:00 - 4:00 pm	Fire rated duct systems
TBD		Cailey	3:00 - 4:00 pm	Cold Climate VRF Heat Pump Design – Designing Air Cooled Heat Pumps as the primary heat source in New England - Lessons Learned from the 2015 Polar Vortex and 2018 “Bomb Cyclone”
TBD		Mediterranean	5:00 - 6:00 pm	ASHRAE 36P (tbc)
Dennis Nierman	Ebtron	Cailey	5:00 - 6:00 pm	Demand Control Ventilation – Control Strategies and Technologies
TBD		Essex	5:00 - 6:00 pm	The Changing Paradigm of DOAS
TBD		Regis	5:00 - 6:00 pm	VAV System Optimization (tbc)

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- 2 Booths – \$1,900.00
- 3 Booths – \$2,700.00
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- Big Rig Trailer Spot - \$2,000 (limited to 1 spot)
- Outside Parking Lot Spot - \$500 (limited to 8 spots)

Exhibitors - [click here](#) to register for a booth!

Exhibitors - [click here](#) to register for an outside trailer spot!

*Note: We will make every effort to accommodate your booth location request. Please submit alternate locations. Booths are reserved on a first come, first serve basis. Payments by check or online **MUST** be received to reserve available booth locations.*

Payment must accompany online application.

Make checks payable to "ASHRAE Boston Chapter" for indoor booth registrations.

Make checks payable to "ASHRAE Research Promotion – Boston Chapter" for outdoor trailer viewing spots.

Deadline for registration is Thursday, March 29, 2018

Mail Checks to: Deanna Adkison

197 E Lothrop St.

Beverly, MA 01915

...See next page for continuation...

Outside trailer viewing spots – to benefit ASHRAE Research Promotion

Outside trailer demo areas will be available again this year, with the purchase of at least (1) inside booth. Demo areas outside (8) regular parking spots \$500 each, the long big rig section \$2,000. If you are interested in one of these spaces please contact either Teri or Dan to reserve a spot.

Contact info:

Teri Shannon

Co-Chair, ASHRAE Product Show

Ph: 207-233-1207

Email: tshannon@dac-hvac.com

Dan Diorio

Co-Chair, ASHRAE Product Show

Ph: 617-877-3036

Email: daniel.diorio.2@bc.edu

ASHRAE Boston Chapter – Employment Ads

The NorthEastAire is published monthly, September through June. It is posted on the Chapter website at www.ashraeboston.org. A link is sent each month to all members of the Chapter, currently over 1000.

Newsletter Rate: \$400 for 1/2 page, \$800 for full page

Website Rate: \$300 per calendar month

Discount for Both Newsletter & Website: \$630 - 1/2 page in newsletter and website (10% discount)
\$935 - full page in newsletter and website (15% discount)

Format: Word format, company logos in .jpg or .gif

Deadline for April Newsletter: April 02, 2018

Any questions, please contact Sophia Scoon, Newsletter Editor at or northeastaire@gmail.com



Materials for the April newsletter are due by **April 02, 2018**.

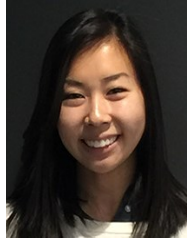
Please submit employment/want ads in .pdf, .doc or .jpg format. A company logo may also be included. Feel free to send any ideas you would like to share or include in next month's issue.

For additional information, refer to our website at www.ashraeboston.org.

EDITOR'S NOTE

By: Sophia Scoon

For more information, please e-mail northeastaire@gmail.com



STUDENT ACTIVITIES

By: Yuka Narisako

We are very excited to receive plenty of highly qualified applicants for the annual Cheryl Rossini Future Engineers Scholarship. We will be announcing the recipients for the scholarship in the April newsletter – stay tuned!

In April the ASHRAE Boston Chapter will be hosting the Product Show at the Lantana. We encourage our student branch members to attend and network with hundreds of industry professionals! The Product Show only happens every other year, so this is an opportunity that cannot be missed! If interested in having a booth for your student branch at the Product Show, please contact Teri Shannon at tshannon@dac-hvac.com for more information! Lastly, I wish our student members a safe and enjoyable spring break!

Please contact me at coo1sa@ashrae.net with any questions.

ASHRAE BOSTON UPCOMING EVENTS	BOSTON AREA UPCOMING EVENTS
Visit https://ashraeboston30.wildapricot.org/resources/Documents/Save%20the%20Date%205.pdf for more information.	AFE Boston Chapter 33 www.afechapter33.org
New Product Show & Energy Show When: Tuesday, April 10, 2018 9:00 am - 8:30 PM Where: Lantana's - 43 Scanlon Dr, Randolph, MA 02368	IFMA Boston Chapter www.ifmaboston.org BOMA Boston Chapter http://www.gbrec.com/boma/
ASHRAE CTTC Webcast When: Thursday, April 19, 2018 Where: TBD	Sustainable Performance Institute http://www.sustainable-performance.org/
Brewery Tour at Night Shift! When: Wednesday, May 23, 2018 Where: Night Shift Brewer - 87 Santilli Hwy, Everett, MA 02149	AFE Chapter 74-Worcester Area-Central MA www.afe74.org USGBC Massachusetts Chapter www.usgbcma.org
ASHRAE 53rd Golf Outing When: Monday, June 04, 2018 Where: Granite Links - 100 Quarry Hill Dr, Quincy, MA 02169	AEE New England Chapter www.aeenewengland.org/ IBPSA Boston Chapter http://ibpsa-boston.com/



YEA

By: Nick Roth

YEA Members!

Below is a proposed schedule of events for YEA this year, if you have suggestions or ideas please let me know! There is also a lot going on with YEA at the national level, please feel free to ask questions about these events

March 22nd – Speed Networking with ASHRAE

March 29th (Thursday)– Annual Cornhole Tournament

May/June – Outdoor Networking Events

ASHRAE YEA Night TBD

connections with those active in ASHRAE. More information can be found here:

<https://www.ashrae.org/membership--conferences/leadership-u>

I am looking forward to being a part of YEA this year. Please feel free to reach out to me anytime if you have any questions at bostonyea@gmail.com

Cornhole Tournament

Come join us at the Baseball Tavern on Thursday March 29th for the annual YEA cornhole tournament. This event is always the highlight of the YEA calendar. It is a great opportunity to socialize and get to know fellow members whether you are a current member or looking to join.

Getting Involved

We are always looking for YEA members to get more involved in our chapter. If you are interested in learning more about YEA, please join us at our YEA Cornhole Tournament on March 29th. Additionally, ASHRAE offers a leadership weekend for future ASHRAE leaders. The next available leadership weekend will be held in the Fall. Future newsletters will have additional info. Topics will include leadership, networking, communication, and professional development. More information can be found here:

<https://www.ashrae.org/membership--conferences/young-engineers-in-ashrae/yea-leadership-weekend>

ASHRAE Leadership U is another program offered through ASHRAE. Have you ever wondered what ASHRAE Officers do at the ASHRAE Winter & Annual Conferences? Here is your chance to find out! Through Leadership U (offered by the YEA Institute), a handful of YEA members are selected for each conference to be matched up with Society Officers and participate in all of their events and board meetings, including social activities. Leadership U not only allows you to experience a conference like an Officer, but it is also a great opportunity to network and form



HISTORICAL NEWS

By: Eric Edman



History

As you read the news in this newsletter, the April Product Show will be fast approaching. As a point of history, the very first product show was held in April of 1984. I happened to be a student member at the time, and volunteered to assist people for the day to carry in products. Little did I know what sort of things the future held for me within this business. I'll have to make a comment that I have heard from many outside our region that attend.. The Boston ASHRAE show is one of the best little local shows that they attend. I would agree with that statement. After 18 shows, we have done an incredible job in making this a fun, educational, and beneficial event to all who attend. We will encourage you to attend. You will not go home without learning something.

The March meeting will be a highlight of the year with the society president in our midst. We have made this special with an invitation to all our past presidents, and life members. These guys have seen so many changes in our industry and to have them attend is about the best historical gift one could ask for. From my viewpoint, this is what makes Boston such a special chapter to belong to.

As always, we look forward to greeting you at a meeting. If there is something of historical nature you think interesting, share it with us. We will do some leg work and share the story with others. Your ideas really do help us.

All our best
Your historical committee.



Webmaster's Notes

By: Kevin Doty

Currently, the [Product Show](#) homepage is our most active page on the website. Here you can find the booth layout, presentation lineup, and general registration information.

Please make sure to add admin@ashraeboston.org to your "safe sender" list to prevent emails from going to your spam folder.

Please feel free to send comments and suggestions to co01web@ashrae.net



CTTC

By: Mark Leonard

David L. Chandler | MIT News Office
February 22, 2018

Urban heat island effects depend on a city's layout

The way streets and buildings are arranged makes a big difference in how heat builds up, study shows.

The arrangement of a city's streets and buildings plays a crucial role in the local urban heat island effect, which causes cities to be hotter than their surroundings, researchers have found. The new finding could provide city planners and officials with new ways to influence those effects. Some cities, such as New York and Chicago, are laid out on a precise grid, like the atoms in a crystal, while others such as Boston or London are arranged more chaotically, like the disordered atoms in a liquid or glass. The researchers found that the "crystalline" cities had a far greater buildup of heat compared to their surroundings than did the "glass-like" ones. The study, published today in the journal *Physical Review Letters*, found these differences in city patterns, which they call "texture," was the most important determinant of a city's heat island effect. The research was carried out by MIT and National Center for Scientific Research senior research scientist Roland Pellenq, who is also director of a joint MIT/ CNRS/ Aix-Marseille University laboratory called $\langle MSE \rangle^2$ (MultiScale Material Science for Energy and Environment); professor of civil and environmental engineering Franz-Josef Ulm; research assistant Jacob Sobstyl; $\langle MSE \rangle^2$ senior research scientist T. Emig; and M.J. Abdolhosseini Qomi, assistant professor of civil and environmental engineering at the University of California at Irvine.

The heat island effect has been known for decades. It essentially results from the fact that urban building materials, such as concrete and asphalt, can absorb heat during the day and radiate it back at night, much more than areas covered with vegetation do. The effect can be quite dramatic, adding as much as 10 degrees Fahrenheit to night-time temperatures in places such as Phoenix, Arizona. In such places this effect can significantly increase health problems and energy use during hot weather, so a better understanding of what produces it will be important in an era when ever more people are living in cities.

The team found that using mathematical models that were developed to analyze atomic structures in materials provides a useful tool, leading to a straightforward formula to describe the way a city's design would influence its heat-island effect, Pellenq says.

"We use tools of classical statistical physics," he explains. The researchers adapted formulas initially devised to describe how individual atoms in a material are affected by forces from the other atoms, and they reduced these complex sets of relationships to much simpler statistical descriptions of the relative distances of nearby buildings to each other. They then applied

them to patterns of buildings determined from satellite images of 47 cities in the U.S. and other countries, ultimately ending up with a single index number for each — called the local order parameter — ranging between 0 (total disorder) and 1 (perfect crystalline structure), to provide a statistical description of the cluster of nearest neighbors of any given building. For each city, they had to collect reliable temperature data, which came from one station within the city and another outside it but nearby, and then determine the difference. To calculate this local order parameter, physicists typically have to use methods such as bombarding materials with neutrons to locate the positions of atoms within them. But for this project, Pellenq says, "to get the building positions we don't use neutrons, just Google maps." Using algorithms they developed to determine the parameter from the city maps, they found that the cities varied from 0.5 to 0.9.

The differences in the heating effect seem to result from the way buildings reradiate heat that can then be reabsorbed by other buildings that face them directly, the team determined. Especially for places such as China where new cities are rapidly being built, and other regions where existing cities are expanding rapidly, the information could be important to have, he says. In hot locations, cities could be designed to minimize the extra heating, but in colder places the effect might actually be an advantage, and cities could be designed accordingly. "If you're planning a new section of Phoenix," Pellenq says, "you don't want to build on a grid, since it's already a very hot place. But somewhere in Canada, a mayor may say no, we'll choose to use the grid, to keep the city warmer."

The effects are significant, he says. The team evaluated all the states individually and found, for example, that in the state of Florida alone urban heat island effects cause an estimated \$400 million in excess costs for air conditioning. "This gives a strategy for urban planners," he says. While in general it's simpler to follow a grid pattern, in terms of placing utility lines, sewer and water pipes, and transportation systems, in places where heat can be a serious issue, it can be well worth the extra complications for a less linear layout.

This study also suggests that research on construction materials may offer a way forward to properly manage heat interaction between buildings in cities' historical downtown areas. The work was partly supported by the Concrete Sustainability Hub at MIT, sponsored by the Portland Cement Association and the Ready-Mixed Concrete Research and Education Foundation.

Society News

ASHRAE LEARNING INSTITUTE RELEASES 2018 ONLINE INSTRUCTOR-LED COURSE SCHEDULE

ASHRAE Standard 90.1-2016 Receives Determination from U.S. Department of Energy

Media Contact:

Allen Haynes
404.446.1677

ahaynes@duffey.com

ATLANTA (Mar. 2, 2018) – ASHRAE received a final determination issued by the U.S. Department of Energy (DOE) Building Energy Codes Program stating that ANSI/ASHRAE/IES Standard 90.1-2016, *Energy Efficiency Standard for Buildings Except Low-Rise Residential Buildings*, would achieve greater energy efficiency in commercial buildings subject to the code. Standard 90.1-2016 was published in October 2016.

The standard achieved this determination through DOE analysis indicating that buildings meeting 90.1-2016 (as compared to the previous 2013 edition) would result in national energy cost savings of approximately 8.2 percent, as regulated by the model code.

“Standard 90.1 has been a trusted source of guidance on energy efficiency requirements to built-environment professionals for more than 40 years” says Bjarne W. Olesen, 2017-2018 ASHRAE President Bjarne W. Olesen, Ph.D. “DOE’s final determination serves to reinforce the standing of 90.1 as the U.S. commercial building energy efficiency standard.”

The follow are DOE’s estimates of national savings in commercial buildings:

- 8.3% energy *cost* savings
- 7.9% *source* energy savings
- 6.8% *site* energy savings

This 2016 version of 90.1 is the 10th edition published since the original standard was first published in 1975 during the energy crisis of the United States. Standard 90.1 provides the minimum requirements for energy-efficient design of most buildings, except low-rise residential buildings. It offers, in detail, the minimum energy efficiency requirements for design and construction of new buildings and their systems, new portions of buildings and their systems, and new systems and equipment in existing buildings, as well as criteria for determining compliance with these requirements.

States are required to certify that the provisions of its commercial building code regarding energy efficiency have been reviewed and, as necessary, updated codes to meet or exceed the updated edition of Standard 90.1.

More information on DOE's determination, along with supporting analysis and public comments received, is available at energycodes.gov/determinations.



Research and Promotion

By: William Tang

I am excited to announce that the ASHRAE Boston Chapter Board of Governors has approved the motion to establish an endowment for the Boston Chapter Future Engineers Scholarship, and ASHRAE Foundation will manage the endowment. We need your support to build principal in the Boston Chapter Endowment! Please see below how you can support your ASHRAE Boston Chapter. As always, please contact me should you have any questions, coo1rp@ashrae.net.

Visit the website - <https://xp20.ashrae.org/secure/researchpromotion/rp.html>

Fill the donation form by entering a donation amount in either ASHRAE Research, Endowed Research via ASHRAE Foundation, ASHRAE Scholarship or all three.

William Tang

[Coo1rp@ashrae.net](mailto:coo1rp@ashrae.net)

Amount entered here funds current ASHRAE research projects

Amount entered here goes to the named research endowment. An annual return of 5% funds future research.

Amount entered here goes to the named scholarship endowment. An annual return of 5% funds future scholarship awards.

Invest in ASHRAE and Help Shape our Future

I would like to financially support ASHRAE's mission, programs, and member services indicated below: (indicate the amount you wish to contribute in U.S. dollars to any or all resources below)

U.S.\$ ASHRAE Research ASHRAE Research Canada

U.S.\$ ASHRAE Learning Institute and educational programs

U.S.\$ Endowed Research via ASHRAE Foundation.

* By checking the box, I indicate that I understand that these are endowed funds and permanently restricted for the support of ASHRAE Research.

Existing Fund Name (If known): **Boston Chapter**
[Click here to see existing endowments](#)

U.S.\$ ASHRAE Scholarships (endowed scholarship support)
 Select One **select "Other"**

If "Other" is selected, please enter the name of the Scholarship
Boston Chapter - Future Engineers Scholarship

U.S.\$ ASHRAE General Fund

U.S.\$ Young Engineers in ASHRAE (YEA) Support

U.S.\$ **Total** contribution to be charged to credit card

Please check one:
 Personal Contribution Company Contribution Chapter Contribution
 (Honor Roll level contributions listed in ASHRAE's October Journal Issue start at \$100.00 for individuals and \$250.00 for companies.)

Payment Method (Note - all fields are required)

Charge my gift to:

Name as Appears On Card:

Credit Card Type:

Credit/Charge Card Number:

Expiration Date:

By completing this transaction, you agree to ASHRAE's Privacy Policy

Contributor Information Fields in red are required



Research and Promotion

By: William Tang

Conti....

Donor Contact
information

Donor Name (Individual / Company to be Recognized):		*
ID # (if known):		
Chapter (if known):		
Address 1:		*
Address 2:		
City:		*
State or Province:	Select State/Province	
Zip Code:		
Country:	United States	*
Phone:		
E-mail (to receive confirmation):		*

Option to make the
donation in honor/memory
of a person or company

Would you like to make this gift in Memory or Honor of an Individual?	
<input type="radio"/> Memorial <input type="radio"/> Honorarium <input checked="" type="radio"/> No, thank you.	
Fields with a star (*) below are required if 'In Memory Of' or 'In Honor Of' is selected.	
Name of person to be recognized:	
Send Gift Acknowledgement to:	
Relationship to Person Being Remembered:	
Acknowledgement Address 1:	
Acknowledgement Address 2:	
Acknowledgement City:	
Acknowledgement State or Province:	Select State/Province
Acknowledgement Zip Code:	
Acknowledgement Country:	United States

Select "Submit".



PLEASE JOIN US!

Attendance & Dinner are FREE!
Dozens of HVAC Product Booths &
Displays!

PDH-Approved Seminars!
New & cutting-edge technology!

DATE: APRIL 10TH
TIME: 3PM - 8PM

THE LANTANA, 43 SCANLON DR, RANDOLPH, MA

REGISTER NOW AT
WWW.ASHRAEBOSTON.ORG

RSVP BY APRIL 1st!

For more info, contact:

Teri Shannon - tshannon@dac-hvac.com

Dan Diorio - dan.diorio@bc.edu

TECH SESSIONS:

3PM - 4PM

- Fire-Rated Duct Systems
- Passive House Building Standard
- Cold Climate VRF Design
- Steam Systems & Steam Component Design

5PM - 6PM

- VAV System Optimization
- ASHRAE 36P
- Demand Control Ventilation - Control Strategies & Technologies
- The Changing Paradigm of DOAS

The New Product & Energy Show 2018

Date: April 10, 2018

The Officers and Board of Directors of the Boston Chapter of ASHRAE are pleased to extend an invitation to your organization to participate / exhibit at the 16th Biennial Product Show to be held at Lantana's in Randolph, MA on April 10, 2018.

This show has always been well attended in the past, not only by the general ASHRAE membership, but also by others who work in this field, including Facility Engineers, Hospital Engineers, Building Owners and Mechanical Contractors. The local New Product & Energy Show targets a specific audience where you can talk to the customers who matter to you. Admission is free to all attendees.

When: Tuesday, April 10, 2018

Time: Show: 3:00 PM – 8:00 PM
Dinner: 6:00 PM – 8:00 PM
Seminar:

Where: Lantanas, 43 Scanlon Drive, Randolph, MA

16th Biennial New Product & Energy Show 2018 - Booth Reservation

- 1 Booth – \$1,000.00
- 2 Booths – \$1,900.00
- 3 Booths – \$2,700.00
- 4 Booths – \$3,600.00
- Big Rig Trailer Spot - \$2,000 (limited to 1 spot)
- Outside Parking Lot Spot - \$500 (limited to 8 spots)

Reserve online now at www.ashraeboston.org/productsshowhome.

*Note: We will make every effort to accommodate your booth location request. Please submit alternate locations. Booths are reserved on a first come, first serve basis. Payments by check or online **MUST** be received to reserve available booth locations.*

Payment must accompany online application.

Outside trailer demo areas will be available again this year, with the purchase of at least (1) inside booth. Demo areas outside (4) regular parking spots \$500 each, the long big rig section \$2,000. If you are interested in one of these spaces please contact either Teri Shannon or Dan Diorio to reserve a spot. Proceeds to benefit ASHRAE Research Promotion.

Make checks payable to "ASHRAE Boston Chapter" for indoor booth registrations.
Make checks payable to "ASHRAE Research Promotion – Boston Chapter" for outdoor trailer viewing spots.

Deadline for registration is Thursday, March 29, 2018

Mail Checks to:
Deanna Adkison
197 E Lothrop St.
Beverly, MA 01915

- BOOTHS:** Single – 8 feet wide x 6 feet deep
Double – 16 feet wide x 6 feet deep
A pre-printed sign will be attached to the backdrop with your company name.
- a. Draped booths will be set up labeled prior to your arrival.
 - b. Tables 72" x 30" will be available upon your advanced request.
 - c. Electricity is available only upon your advanced request. No heavy electrical loads will be permitted. **Please bring your own extension cords.**
 - d. Water and drains are **not** available.
 - e. Internet connections available at an additional charge through Lantana's.

FOOD: A complimentary buffet dinner will be available to all attendees of the show.

SEMINARS: ASHRAE has reserved the facility for the entire day. Rooms are available for seminars from 3:00 p.m. to 6:30 p.m. Please contact Mark Leonard at MCL@brplusa.com if you are interested in providing a seminar. An outline of the seminar material will need to be submitted prior to approval. The seminars are intended to be educational and not commercial in nature.

Thank you for your interest and participation in the Boston Chapter – ASHRAE Product Show.

Please visit www.ashraeboston.org for more information and updated booth layout of exhibitors.

Sincerely,

Teri Shannon
Co-Chair Product Show
tshannon@dac-hvac.com

Dan Diorio
Co-Chair Product Show
dan.diorio@bc.edu



ANNUAL CORPORATE SPONSOR PROGRAM

Support the ASHRAE Boston Chapter by becoming a Sponsor and shining the spotlight on your organization!

EVENT BEVERAGE SPONSOR \$1500

- Donation of \$300 in your company name to ASHRAE Research – Boston Chapter Endowment
- Company name listed in the ASHRAE Insight and earn Honor Roll Corporate Status
- Company name display and recognition on name badges at the sponsored event
- One (1) complimentary tickets to the Annual Sponsor Recognition Event

SILVER LEVEL SPONSOR \$2000

- Donation of \$1000 in your company name to ASHRAE Research – Boston Chapter Endowment
- Company name listed in the ASHRAE Insight and earn Honor Roll Corporate Status
- Company name display on ASHRAE Boston Chapter website and monthly meetings for one year*
- Full-page ad in the Boston Chapter Roster & Product Guide for one year*
- Recognition on name badges at all events for one year*
- One (1) complimentary tickets to the Annual Sponsor Recognition Event

*ASHRAE Calendar Year – July 1 to June 30 of the following year

GOLD LEVEL SPONSOR \$3000

- Donation of \$1500 in your company name to ASHRAE Research – Boston Chapter Endowment
- Company name listed in the ASHRAE Insight and earn Honor Roll Corporate Status
- Company name display on ASHRAE Boston Chapter website and monthly meetings for one year*
- Full-page ad in the Boston Chapter Roster & Product Guide and half-page ad in the Boston Chapter newsletter – North-eastAire for one year*
- Recognition on name badges at all events for one year*
- Two (2) complimentary tickets to the Annual Sponsor Recognition Event
- Complimentary hole sponsor sign at the annual ASHRAE Boston Chapter Golf Tournament

PLATINUM LEVEL SPONSOR \$5000

- Donation of \$2500 in your company name to ASHRAE Research – Boston Chapter Endowment
- Company name listed in the ASHRAE Insight and earn Honor Roll Corporate Status
- Company name display on ASHRAE Boston Chapter website and monthly meetings for one year*
- Full-page ad in the Boston Chapter Roster & Product Guide and the Boston Chapter newsletter – NortheastAire for one year*
- Recognition on name badges at all events for one year*
- Four (4) complimentary tickets to the Annual Sponsor Recognition Event
- Company name on event name badge lanyards for one year*
- Complimentary hole sponsor sign at the annual ASHRAE Boston Chapter Golf Tournament

*ASHRAE Calendar Year – July 1 to June 30 of the following year

COMMITMENT FORM

I would like to become a sponsor for the ASHRAE Boston Chapter!

SPONSORSHIP LEVEL

Please check one

- PLATINUM \$5000
- GOLD \$3000
- SILVER \$2000
- EVENT \$1500

PAYMENT METHODS

PayPal – <http://ashraeboston.org/oursponsors>

Check – please mail the completed form and check to:

ASHRAE Boston Chapter
197 Lothrop Street
Beverly, MA01915
ATTN: Deanna Adkison

SPONSORSHIP CHECKLIST

Please submit the following when you register to become a sponsor

- Sponsorship Commitment Form completed
- Company ad in high-resolution ESP or JPG format to be place in the Roster & Product Guide and/or the NortheastAire.
- Company logo in high-resolution ESP or JPG format to be place on the pre-meeting presentation and/or the Boston Chapter homepage

Questions? Please contact any of the ASHRAE Boston Chapter Corporate Sponsorship Committee members.

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2017-2018 Meeting Schedule

Date	Main Meeting/ Tech Session	Speaker	PDH Credits	Location/ Special Night
April	Product Show 2018	See Program	See Program	Lantana's 43 Scanlon Dr. Randolph, MA 02368
Thursday April 19, 2018	ASHRAE CTTC Webcast	TBD	TBD	
May	Installation of Officers	TBD	TBD	TBD
Wednesday May 23, 2018	Brewery Tour at Night Shift	TBD	TBD	TBD
June	Golf Outing	Jim Liston	N/A	Granite Links 100 Quarry Hill Dr. Quincy, MA 02169 Research Promotion
Monday June 4, 2018				

OFFICERS

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Investors Who
Care About
Tomorrow

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RST Thermal	Mr Daniel P Diorio	Ms Deanna Jean Adkison
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	Mr Justin J Mole	Mr John A Iacopucci
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Ms Christine Reinders-Caron	Mark C Leonard	RST Thermal

CONTACT William Tang at coo1rp@ashrae.net

Mail Check (Payable to "ASHRAE Research") to:

ASHRAE RESEARCH
William Tang
c/o Bard, Rao + Athanas Consulting Engineers
10 Guest St. 4th Floor
Brighton MA 02135

**Your contribution puts us closer to achieving our goal.
Please send what you can today!**

Individual contributions of \$100 or more and Corporate contributions of \$150 or more receive this year's Commemorative Coin and Honor Roll Contribution status.

Name: _____

Company: _____

Address: _____

TEL: _____

INDIVIDUAL	\$25.00	\$50.00	\$100.00	\$200.00
CORPORATE	\$250.00	\$500.00	\$1,000.00	\$2,000.00

Other: _____

Other: _____



NorthEastAire

ASHRAE - BOSTON CHAPTER www.ashraeboston.org

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