



2017-2018 Officers



Mike Gilroy
President



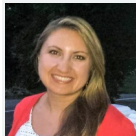
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March Meeting

Tuesday, March 6, 2018

Main Meeting:

**The European Approach to
Decrease Energy Use in
Buildings**

**Event Announcement – March
Meeting w/ ASHRAE Society President
Bjarne Olesen**

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

Where:

Metro Meeting Center
101 Federal St, 4th Floor
Boston, MA 02110

Meal Menu:

Metro Cafe Tossed Salad
BBQ Shredded Pulled Pork
Peach & Cream

Time:

5:30 - 6:30 PM Networking
5:30 - 6:15 PM Technical Session
6:30 - 7:00 PM Social/Registration/Dinner
7:00 - 8:00 PM Main Program

Cost:

ASHRAE Boston Members:	\$50
Non –Members / Walk-Ins:	\$60
ASHRAE Student Members with RSVP:	Free

Special thanks to our 2017-2018 Sponsors:

Platinum:

[HTS New England](#)

Gold:

[RST Thermal](#)

[Victaulic](#)

Investor Recognition:

[Jim Armstrong](#)

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Please register online at www.ashraeboston.org.

RSVP by 12:00pm (noon) Friday March 2nd, 2018.

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

Thank You



PRESIDENT’S MESSAGE

By: Mike Gilroy

As we look ahead to the 2nd half of our ASHARE year calendar, the Boston Chapter will continue to provide monthly technical meetings while mixing in some social events that were being planned behind the scenes in the Fall months. Our February Meeting will focus on Building Automation, with a technical session focusing on the development, contents, and current standing of ASHRAE 36P. Our Main Meeting will take a deeper dive into the state of Building Automation Systems and look to the future. We hope you can join us on February 13th!

As mentioned above, refer to below list of upcoming events:

March 22: Speed Networking and Officer Social

Come meet ASHRAE Chapter Members and Officers in an informal, “speed networking” event in the Seaport

April 10: ASHRAE Boston Product Show with Technical Sessions

April 19: ASHRAE CTTC Webcast

May 23: Brewery Tour at Night Shift!

A near annual event with some upgrades including a more technical tour.

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.

I look forward to seeing you at the next meeting!

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	Chapter PAOE Point Totals
1052	775	410	0	100	680	0	0	1965



Materials for the March newsletter are due by March 05, 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

March Meeting Information

Main Section Title of presentation: The European Approach to Decrease Energy Use in Buildings

Presentation Outline:



From the beginning of 2006 all new European buildings (residential, commercial, industrial etc.) must have an energy declaration based on the calculated energy performance of the building, including heating, ventilating, cooling and lighting systems. This energy declaration must refer to the primary energy or CO₂ emissions. The directive also states that the energy performance calculation must take into account the indoor climate, but gives no guidelines.

The European Organization for Standardization (CEN) has prepared a series of standards to cover the requirements for the indoor environment, energy performance calculations for buildings and systems, ways of expressing energy performance, inspection of heating-cooling-ventilation systems and conversion to primary energy. This paper presents the EPBD and related standardization. It also gives the status of the on-going implementation of the directive and discusses the issues related to the indoor and outdoor environment. Further activities to decrease energy use is a directive requiring increased use of renewable energy and energy labeling of energy consuming products are further actions.

The presentation will also show examples of activities in the US to increase energy efficiency and reduce energy use in buildings with focus on ASHRAE products and projects.

Speaker Bio:

Bjarne Olesen holds a Master's degree in civil engineering, 1972. Ph.D., Laboratory of heating and Air Conditioning, Technical University of Denmark, 1975. In the period 1972-1990 Research scientist at the Laboratory of Heating and Air Conditioning. Part time affiliated as product manager at Brüel & Kjaer 1978-1992. Senior Research Scientist, College of Architecture, Virginia Tech. in the period 1992-1993. Since 1993 until January 2004 Head of Research & Development at UPONOR-VELTA GmbH KG & Co., Norderstedt, Germany. Since January 2004 full professor in Indoor Environment & Energy at the Technical University of Denmark and director of the International Centre for Indoor Environment and Energy, Technical University of Denmark. Awarded the Ralph Nevins Award (1982), Distinguish Service Award (1997), Fellow Award (2001) and Exceptional Service Award (2006) from ASHRAE. Awarded the Medal of Honour from the German Engineering Society (VDI-TGA, 2005) and International Honorary Member of SHASE. The Society of Heating, Air-Conditioning and Sanitary Engineers of Japan. Vice president of ASHRAE and Honorary member of AICARR (Italian Society for HVAC). Is active in several ASHRAE-CEN-ISO-DIN standard committees regarding indoor environment and energy performance of buildings and HVAC systems. Has published more than 350 papers including more than 60 in peer reviewed journals.

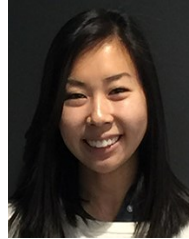
Technical Section Presentation Description:



Consulting engineering firms and architects must make early decisions to ensure that they meet current standards for building energy efficiency, such as those defined by ASHRAE or LEED V4. 3D simulation (CFD) now maximizes upstream project optimization efforts to achieve expected performance levels and maximize profits. The energy efficiency of a building is greatly influenced by the decisions made at the beginning of the project. Based on BIM models such as Revit, and with the agreement of some engineering consulting firms and architects, we propose to share with the audience 3D simulation projects (CFD) for the optimization of high-rise buildings and energy performance to address the following issues: Thermal comfort, flow velocities, air quality, the dissipation of pollutants or even help with the dimensioning of HVAC equipment.

Speaker Bio:

Jacques Luk-Cyr is one of 150 consulting engineers at Maya HTT based in Montreal. He has participated in dozens of CFD analysis projects in the field of energy efficiency for consulting engineering firms. He holds a Master's degree in Mechanical Engineering from the Massachusetts Institute of Technology (MIT) and a Ph.D. at École Polytechnique de Montréal.



STUDENT ACTIVITIES

By: Yuka Narisako

Applications for the Cheryl Rossini Future Engineers Scholarship were due **February 16th**!

This scholarship is a wonderful financial opportunity to college underclassmen and high school seniors who are pursuing an engineering degree and I highly encourage students to apply! If you are or know any high school seniors who will be attending a college or university in the greater Boston area to study engineering, or a college freshman or sophomore currently studying engineering , please let them know of this great opportunity!

Please see the scholarship website [here](#) for more information. We will be announcing scholarship recipients in the upcoming weeks. Thank you to all our members who helped spread the word, and of course a big thank you and good luck to our applicants!

Please contact me at 001sa@ashrae.net with any questions!

<h3>ASHRAE BOSTON UPCOMING EVENTS</h3>	<h3>BOSTON AREA UPCOMING EVENTS</h3>
<p>Visit https://ashraeboston30.wildapricot.org/resources/Documents/Save%20the%20Date%205.pdf for more information.</p>	<p>AFE Boston Chapter 33 www.afechapter33.org</p>
<p>ASHRAE Speed Networking and Officer Social When: Thursday, March 22, 2018 5:30 PM What: Come meet ASHRAE Chapter Members and Officers in an informal, “speed networking” event in the Where: Seaport</p>	<p>IFMA Boston Chapter www.ifmaboston.org</p> <p>BOMA Boston Chapter http://www.gbrec.com/boma/</p>
<p>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</p>	<p>Sustainable Performance Institute http://www.sustainable-performance.org/</p> <p>AFE Chapter 74-Worcester Area-Central MA www.afe74.org</p>
<p>ASHRAE CTTC Webcast When: Thursday, April 19, 2018 Where: TBD</p>	<p>USGBC Massachusetts Chapter www.usgbcma.org</p>
<p>Brewery Tour at Night Shift! When: Wednesday, May 23, 2018 Where: Night Shift Brewer - 87 Santilli Hwy, Everett, MA 02149</p>	<p>AEE New England Chapter www.aeenewengland.org/</p> <p>IBPSA Boston Chapter http://ibpsa-boston.com/</p>



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

February – Networking Event at Good Life

March 29th – Annual Cornhole Tournament

ASHRAE YEA Night TBD

2nd Technical Tour TBD

Fraunhofer CSE Tour

Our first technical tour at Fraunhofer Center for Sustainable Energy Systems went very well. Kurt Roth gave members a presentation on the buildings different types of Mechanical systems. The presentation included a history of the project, overview of design and construction and lessons learned. The question and answer section allowed YEA members to learn more about the latest methods of design and construction.

As seen in the photos below, the tour included the lab space and mechanical rooms. YEA members were able to examine the chiller, radiant flooring, displacement ventilation, radiant chilled panels as well as other mechanical systems.



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 social night at the Good Life. Additionally, ASHRAE offers a leadership weekend for future ASHRAE leaders. This year's leadership weekend will be held in Seattle, MA on March 23-25. 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 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



HISTORICAL NEWS

By: Eric Edman



We are quite pleased so many of you have enjoyed the short 5 minute historical talks prior to main meetings.

Last month we talked about the history of steam and how it started with the industrial revolution and a need for water removal in coal mines. How an 8 year old child with imagination worked with an “old guy” to improve something that turned out to change the world.

How little did any of us know how our world changed with the introduction

of steam, steam boilers, and a whole revolution of central heat. The impact it had around us, in our workplaces, in our government, and in world conflicts, without us ever noticing it.

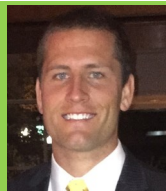
Think about your role in this industry.

Thank you, and as always, the historical committee looks forward to seeing you at all future meetings.

PS

I will make a short pitch for the Product Show.

Make an effort to attend, take a friend. ASHRAE is fun with friends.



Webmaster's Notes

By: Kevin Doty

On August 19th, 2017, The Boston Chapter was recognized with the “Websitation of Excellence” award for the 2nd straight year at the Region I CRC in Long Island, NY. Thank you to everyone for your feedback throughout the past year. As always, comments and suggestions can be sent to c001web@ashrae.net.

Please make sure to add admin@ashraeboston.org to your “safe sender” list to prevent emails from going to your

GGAC

By: *Jeremy Caron*

FY2018 Federal Funding

As of the writing of this newsletter the Federal Government is shut down. If a funding solution is not devised by Congress soon further updates will be provided to ASHRAE Boston Chapter members regarding impacts to ongoing business of the chapter and its members.

REMINDER: U.S. Department of Energy Requests Input on Energy Conservation Standards

The U.S. Department of Energy (DOE) is evaluating the potential use of a market-based mechanism such as an averaging, trading, fee-based or other type of market-based policy mechanism for the U.S. Appliance and Equipment Energy Conservation Standards (ECS) program. DOE is soliciting input on this approach, and published a [Request for Information](#), with comments due on or before **February 26, 2018**. For more information and to submit comments, please click [here](#).

Funding to Address Natural Disasters Damage

Funding to provide aid to areas hit by recent natural disasters has also become a component of budget negotiations. More than \$50 billion in disaster aid has already been appropriated by Congress to assist communities who were affected by these recent hurricanes and wildfires. In December, the House voted in favor of an \$81 billion disaster aid package. The Senate did not vote on the measure before adjourning for the rest of 2017.

NIBS Hazard Mitigation Report

The [National Institute of Building Sciences](#) released the [Natural Hazard Mitigation Saves: 2017 Interim Report](#) on January 11, which investigated the benefits of taking preventative measures and actions to protect communities from natural disasters. Sponsored by FEMA, HUD, EDA, ICC, IBHS, NFPA and the AIA, the report found that for every \$1 spent on "mitigation projects" the federal government would save \$6.

Recommendations Sent to GSA from Green Building Advisory Committee

The High-Performance Building Adoption Task Group of GSA's independent Green Building Advisory Committee sent to the U.S. General Services Administration (GSA) a [letter](#) with recommendations to accelerate the adoption of high-performance Federal buildings. The letter also provides detailed information regarding the costs and benefits of making these investments and an overview of current policies for retrofitting federal buildings. **ASHRAE Presidential Member Kent Peterson** serves as the Co-Chair on the High-Performance Building Adoption Task Group of GSA's Green Building Advisory Committee, which developed these recommendations.

Society News

ASHRAE LEARNING INSTITUTE RELEASES 2018 ONLINE INSTRUCTOR-LED COURSE SCHEDULE

Media Contact:

Allen Haynes
404.446.1677
ahaynes@duffey.com

ATLANTA (Feb. 20, 2018) – ASHRAE Learning Institute (ALI) has added three new courses to the 23 offerings in its 2018 online instructor-led course schedule.

The course “Latest in High-Performance Dedicated Outdoor Air Systems (DOAS),” taking place on March 20, covers the latest in DOAS application, design, and control for this very popular means to providing ventilation for a building, particular for low-energy, max tech and zero energy buildings. This course supplements material presented in the *ASHRAE Design Guide for Dedicated Outdoor Air Systems (DOAS)*.

“Save 30% while Complying with ASHRAE Standard 90.1-2013,” to be held on May 8, provides guidance on the use of ASHRAE/IES Standard 90.1, which is used by many state and local jurisdictions. Key updates for each of the major building systems are presented, including HVAC system, lighting system, building envelope, service water heating, and power.

The course “Understanding and Designing Chilled-Beam Systems,” to be held on May 15 and Nov. 8, provides a review of HVAC fundamentals as they relate to chilled-beam system design and how to properly identify and control equipment and components that optimize design. Chilled-beam systems save on cooling and transport energy by decoupling most or all of the space sensible loads from the air-distribution system and removing them with water, more efficient heat transfer medium in some applications.

Through the instructor-led online courses, industry experts present three-hour sessions on such other HVAC&R topics areas as commissioning, energy efficiency, HVAC applications and specialized HVAC environments. Participants will receive access to a recorded version of the courses for which they are registered for continuing reference.

To register, visit www.ashrae.org/onlinecourses. The following is the full 2018 course schedule:

Commissioning

- Commissioning Process in New & Existing Buildings - Two-Part Course, April 23 and April 30
Energy Efficiency
- IT Equipment Design Evolution and Data Center Operation Optimization, March 22

....CONT....

- Designing Toward Net-Zero Energy Commercial Buildings, April 5
 - Building Demand Response and the Coming Smart Grid, July 9
 - Humidity Control I: Design Tips and Traps, Aug. 21
 - Humidity Control II: Real-World Problems and Solutions, Aug. 28
 - Energy Modeling Best Practices and Applications - Two-Part Course, Oct. 2 and Oct. 4
- HVAC Applications**
- Latest in High-Performance Dedicated Outdoor Air Systems (DOAS), March 20
 - Air-to-Air Energy Recovery Applications: Best Practices, April 10
 - Understanding and Designing Chilled-Beam Systems, May 15 and Nov. 8
 - Design of Affordable and Efficient Ground Source Heat Pump Systems, June 12
 - Optimizing Indoor Environment: Increasing Building Value - Two-Part Course, June 18 and June 19
 - Variable Refrigerant Flow System: Design and Applications, July 18 and Nov. 28
 - Designing and Operating High-Performing Healthcare HVAC Systems, Sep. 18
 - High-Performance Building Design: Applications and Future Trends, Oct. 29
 - Variable Refrigerant Flow System: Design and Applications, Nov. 28
- Standards and Guidelines**
- Save 30% while Complying with ASHRAE/IES Standard 90.1-2013, May 8 and Nov. 6
 - Complying with ASHRAE Standard 90.1-2016: Appendix G, May 10
 - Fundamental and Application of ASHRAE Standard 55, May 23
 - Successfully Managing the Risk of Legionellosis Using ASHRAE Standard 188-2015, Sept. 12
 - Fundamental Requirements of Standard 62.1-2013, Dec. 18



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, co01rp@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

Co01rp@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?

Memorial Honorarium 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".



Boston Chapter of ASHRAE Biennial New Product & Energy Show 2018

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

Dan Diorio
Co-Chair Product Show

tshannon@dac-hvac.com dan.diorio@bc.edu

SCHEDULE

Tuesday, March 27, 2018

- 7:30 AM -8:00 AM Registration
- 8:00 AM -8:30 AM **Intro, IECC, User's Manual, Scope:** Larry Spielvogel, PE, Past 90.1 Chair
- 8:30 AM - Noon **Building Envelope:** Joseph Deringer, AIA, SuPerB, Past 90.1 Envelope Chair
- 12:45 PM -1:30 PM **Building Envelope:** Joseph Deringer, AIA
- 1:30 PM - 3:45 PM **Lighting:** Carl Watson, PE, Consulting Engineer & Code Official
- 3:45 PM - 5:00 PM **Energy Modeling & App G:** Michael Tillou, PE, Atelier Ten, 90.1 ECB Committee

Wednesday, March 28, 2018

- 7:30 AM - 8:00 AM Registration
- 8:00 AM - 8:30 AM **Intro, IECC, User's Manual, Scope:** Larry Spielvogel, PE, Past 90.1 Chair
- 8:30 AM - Noon **HVAC Systems:** Mack Wallace, PE, Jacobs/WiseWatt LLC, 90.1 Mechanical Committee
- 12:45 PM - 3:00 PM **HVAC Equipment:** Dick Lord, UTC Carrier, 90.1 Vice-Chair, 90.1 Mechanical Committee
- 3:15 PM - 4:00 PM **Service Water Heating:** Mack Wallace, PE
- 4:00 PM - 5:00 PM **Compliance:** Ernie Conrad, PE, Consulting Engineer, 90.1 Compliance Committee

Nearby Hotels

Courtyard Philadelphia South at Navy Yard
Use Promo Code: CJ9

Residence Inn Philadelphia Airport
Use Promo Code: CJ9



The Philadelphia Chapter of ASHRAE is offering a comprehensive, in-depth and unique two-day program covering ANSI / ASHRAE / IES Standard 90.1 (2007) Energy Standard for Building (except Low-Rise Residential Buildings). A program of this magnitude and depth is not available anywhere else. Registration is open to everyone interested, and especially members of AIA, IES, IALD, USGBC, and CSI.

All presenters are the people who write and enforce the 90.1 standard. This is the only current energy option to the 2009 IECC in Pennsylvania and is the foundation for all later versions. Do not confuse this with presentations by other groups on later versions not adopted or required.

Location Penn State at The Navy Yard
Building 661
4960 S. 12th Street
Philadelphia, Pa 19112
Parking is FREE

Public transportation is available via the Broad Street Subway Line and a free shuttle bus from the last subway station, AT&T Station. The Courtyard by Marriott Philadelphia South at the Navy Yard is a few blocks away.

Cost \$155.00 per person, per day
Lunch, snacks, refreshments and handouts are included.

Full time students and full time code officials are eligible for a discounted rate of \$100 per day.

Standard and Users manuals for requested years are available for purchase at the discounted rate of \$70.00 per book. The books are available at this drastically reduced price only if paid in advance with the conference registration.

PDH Credits Eight (8) PDH credits are offered per day.

Register Register and make your book selections at <http://ashraephilly.org/meetinginfo.php?id=69&ts=1517883031>



For more information, contact
Judd Vail at jvail@csande.net or 484-873-3974
or Hope Silverman at hope@mmco1.com or 610-971-2169.



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.

William Tang
co01rp@ashrae.net

Mike Gilroy
co01@ashrae.net

Dan Carington
co01pe@ashrae.net

Mark Leonard
co01vp@ashrae.net

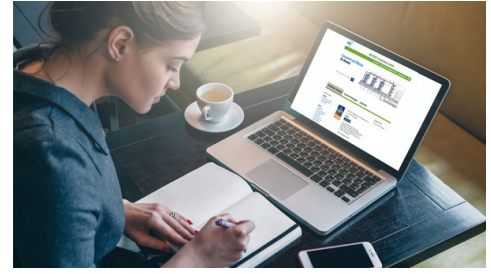
Bob Persechini
rpersechini@rdkengineers.com

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Course Catalog

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2017-2018 Meeting Schedule

Date	Main Meeting/ Tech Session	Speaker	PDH Credits	Location/ Special Night
February	BAS Controls	TBD	TBD	Embassy Suites 550 Winter St. Waltham
Tuesday February 13, 2018	Tech Session: ASHRAE Guideline 36P (Control Sequences)	TBD	TBD	Joint Meeting with I2SL
March	The European Approach to Decrease Energy Usage In Buildings	Bjarne Olesen	TBD	Metro Meeting Centers 101 Federal St. Boston
Tuesday March 6, 2018	Tech Session: Meeting Current Standards For Energy Efficiency	Jacques Luk-Cyr	TBD	Joint Meeting with AEE
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

President

Mike Gilroy,
BR+A
617-925-9255
coo1@ashrae.net

Secretary

Christine Reinders
Cannon Design
coo1sec@ashrae.net

Treasurer

Deanna Adkison
AKF Group
617-535-8236
coo1tr@ashrae.net

President-Elect

Dan Carington
BR+A
617-925-8236
coo1pe@ashrae.net

Vice President

Mark Leonard
BR+A
617-925-8322
coo1vp@ashrae.net

BOARD OF GOVERNORS

2017-2020

Bob Persechini
RDK Engineers
617-345-9885
rpersechini@rdkengineers.com

Lance Brown
BVH
LanceB@bvhis.com

Chris Pietrocarlo
BR+A
cpietrocarlo@brplusa.com

William Tang
BR+A
617-254-0016
wkt@brplus.com

2016-2019

Darcy Carbone
Stebbins Duffy, Inc.
617-957-2567
coo1bog2@ashrae.net

Christine Reinders
CannonDesign
617-517-6204
coo1bog1@ashrae.net

Steve Tafone
Suffolk Construction
978-774-1057
coo1bog10@ashrae.net

2015-2018

Daniel Diorio
Boston College
617-552-8772
coo1bog4@ashrae.net

Jim Liston
Columbia Construction Co.
978-664-9500
coo1bog6@ashrae.net

Justin Mole
Cannon Design
coo1bog7@ashrae.net

Erin Popa
BR+A
617-925-8205
coo1bog5@ashrae.net

COMMITTEES

Attendance

Chris Pietrocarlo
BR+A
ashraebostonattendance@outlook.com

CRC Delegate

William Tang
BR+A
617-254-0016
coo1@ashrae.net

Membership Promotion

Will Cunningham
BR+A
coo1mem@ashrae.net

Professional Development

Mark Leonard
BR+A
617-925-8322
mleonard@brplusa.com

Sustainability

Lance Brown
BVH
LanceB@bvhis.com

Chapter Program

Mark Leonard
BR+A
617-925-8322
coo1cttc@ashrae.net

Golf Outing

Jim Liston
Columbia Construction Co.
978-664-9500
jliston@columbiacc.com

Nominating

Bob Persechini
RDK Engineers
617-345-9885
coo1nom@ashrae.net

Publicity

Erin Popa
BR+A
617-925-8205
coo1pub@ashrae.net

Special Events

Erin Popa
BR+A
617-925-8205
Teri Shannon
ashraebostonspecialevents@outlook.com

Chapter Technology Transfer

Dan Carington
BR+A
617-925-8236
coo1cttc@ashrae.net

Grassroots Government Activities

Christine Reinders
Cannon Design
Creinders@cannondesign.com

Research Promotion

William Tang
BR+A
617-254-0016
coo1rp@ashrae.net

Refrigeration

Steven Tafone
Suffolk Construction
978-774-1057
coo1ref@ashrae.net

Website

Kevin Doty
Victaulic
coo1web@ashrae.net

CRC Alternate

Mike Gilroy
BR+A
617-925-9255
coo1pe@ashrae.net

Historian

Eric Edman
BR+A
617-925-8325
coo1his@ashrae.net

Mike Gilroy

BR+A
617-925-9255
mpg@brplusa.com

Mike Gilroy

BR+A
617-925-9255
mpg@brplusa.com

WiA

Deanna Adkison
AKF Group
617-535-8236
dadkison@akfgroup.com

CRC Alternate

Mike Gilroy
BR+A
617-925-9255
coo1pe@ashrae.net

Honors & Awards

Will Cunningham
BR+A
coo1ha@ashrae.net

Newsletter Editor

Sophia Scoon
Jacobs
coo1ne@ashrae.net

Student Activities

Yuka Narisako
BR+A
coo1sa@ashrae.net

YEA

Nick Roth
NE Applied Products
coo1yea@ashrae.net

ASHRAE RESEARCH

Investors Who
Care About
Tomorrow

ASHRAE Boston Chapter Contributors

Corporate Research Contributors		
Victaulic	Mr James E Armstrong	Mr William Cunningham
BR+A	Mr Robert J Persechini	Mr Eric M Edman
HTS New England	Mr Michael P Gilroy	Mr Chris Pietrocarlo
RST Thermal	Mr Daniel P Diorio	Ms Deanna Jean Adkison
Trane	Mr Jeffrey Zajac	Mr Karl R Hudson
	Mr Justin J Mole	Mr John A Iacopucci
Personal Research Contributors		
Ms Sarah E Maston, PE	Mr Lance Brown	Mr Joel Gordon, PE
Mr Gary M Elovitz	Mr Daniel P J Carington	Gary Wilkins
Mr Majid Seghatoleslami	Mr Steven J Tafone	Mr David Bennett III
Mr James R Generelli	Mr William K Tang	Mr Eric M Edman
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.

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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

Deanna Adkison

Fitzmeyer & Tocci Associates, Inc.

300 Unicorn Park Drive, 5th Floor, Woburn, MA 01801

(P) 781.285.2262d

adkison@f-t.com