

2016-2017 Officers



William Tang
President



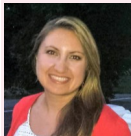
Mike Gilroy
President-Elect



Dan Carington
Vice President



Mark Leonard
Secretary



Deanna Adkison
Treasurer

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December Meeting

Tuesday December 13, 2016

Main Meeting:

Solar Heating—Hosted by ASPE

Tech Session:

TBD

Joint Meeting with ASPE

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

Where:

Lantana
43 Scanlon Dr. Randolph, MA 02368

Meal:

Creamy New England Clam Chowder
New Age Chicken Bleu
Warm Apple Tart

Time:

5:00 – 6:00 p.m. Social/Registration
6:00 – 6:45 p.m. Dinner
6:45 - 8:00 p.m. Announcements & Main Program

Cost:

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

Special thanks to our Sponsors:

Platinum:

Gold:

RST Thermal
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Silver:

• Victaulic

- Daikin
- R.T. Forbes
- Trane
- HTS New England
- Leonhardt Company

Event Sponsors:

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- Siemens
- TRO
- WSP

Please register online at www.ashraeboston.org.

RSVP by 12:00 PM on Friday, December 9th.

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

Thank You



PRESIDENT'S MESSAGE

By: William Tang

We had our 2016 – 2017 technical tour at one of Boston's newest sports venue, the Warrior Ice Arena at Boston Landing, also known as the Bruins' Practice Rink. I am delighted that the event attracted over 140 attendees, including many new faces. I hope this trend continues. I want to thank our corporate sponsors for helping to keep the cost down for our attendees and for helping to keep our events free for our student members. I also want to thank Nancy Gould and Nicholas Chiarelli of WSP | Parsons Brinckerhoff for providing an overview of the Warrior Ice Arena project and Peter Comeau, Gino Whooley of RECCO, and Benoit Rodier of CIMCO for providing the technical tour. A special thanks to WSP | Parsons Brinckerhoff for sponsoring the evenings' social hour.

In an effort to improve future events, our Chapter Technology Transfer Committee Chair, Dan Carington, sends a survey after each meeting. Please take a few minutes to complete the survey. We value your feedback.

Several members from our Chapter are involved with the ASHRAE technical committees that help chart the direction of ASHRAE. I encourage more of our members get involved by attending national events such as the [2017 winter conference](#) which will be held from Jan 28 – Feb 1, 2017 in Las Vegas, NV. Registration is available now, please visit www.ashrae.org for more information.

Our next event is a joint meeting with ASPE at Lantana in Randolph, MA. I hope to see many of you at the meeting.

Happy Holidays!



EDITOR'S NOTE

By: Deanna Adkison

Materials for the January newsletter are due by **December 16, 2016**.

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.

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

Title of presentation: Solar Heating – Hosted by ASPE

Speaker Bio:

Mr. Brian Cumming



Brian graduated with a Mechanical Engineering degree from the University of Colorado in 2001 and worked in the automotive industry for a number of years managing large projects.

Brian has worked in the solar industry for 7 years, designing systems for residential and large commercial applications, writing and implementing solar thermal training programs and working with customers to develop and understand solar technologies. In this time he has designed some of the largest solar thermal systems in North America including Shouldice Hospital, West Point Academy, Oregon State Hospital and The Cliff House.

PRESENTATION OUTLINE

- Introduction to Kingspan
- Thermal collector basics
- Flat plate collectors
- Evacuated tube collectors
- Commercial systems
- Designing commercial systems
- Component overview
- Commercial installations



November Meeting Recap

By: Andrew Krenning



The 2016/2017 ASHRAE Boston Chapter meeting and tour was held at the new Bruins training center Warrior Ice Arena in Boston, MA. The event was kicked off by a great networking and social hour presented by our event and drink sponsors. For the third month in a row, we had great turnout and new faces in attendance looking to network with fellow members of the HVAC community as well as get a chance to tour the new ice rink facility. The meeting was officially kicked off by ASHRAE Boston Chapter President William Tang who welcomed everyone in attendance. William introduced Mr. Steven Rosen as this year's recipient of the Boston ASHRAE Hall of Fame. This award recognizes Chapter Members who have gone above and beyond in their efforts within the engineering community and ASHRAE. This month's meeting was also Young Engineers in ASHRAE night presented by Joe Dussault and Student Activities night presented by Yuka Narisako. They both got up and gave an update on upcoming activities for their

respective groups and how you can get involved.

Nancy Gould and Nicholas Chiarelli of WSP Parsons Brinckerhoff Boston, who were both involved with the project, came up and gave a great presentation. Both Nancy and Nicholas talked about some of the finer details of the project around the HVAC systems and how they function. They also talked about the challenges that arose during the design and construction of the facility and how the design team worked through them to complete a very successful project. At the conclusion of the presentation, everyone was invited to tour the facility in smaller groups to get a good behind the scenes look at the HVAC and refrigeration systems. Mr. Peter Comeau, CEO and Co-Owner of RECCO out of Woburn, MA who was the installing contractor for the refrigerant ice system talked about the unique systems in this project and how it all came together during the tour. Overall the design and construction team associated with the project did a great job talking about the project and giving us a tour of this great new Bruins practice facility and community ice rink. If anyone is interested in more



information on the rink, Bruins practice schedule, leagues or open skate times please visit their website at

www.warrioricearena.com.



Please visit our calendar of events on our website to save the dates in your calendar. Don't forget to follow us on twitter @ASHRAEboston and on LinkedIn for all the latest news and event updates.



BOG Meeting Minutes

By: Mark Leonard

Meeting started at 4:25 PM

General Business

- October BOG meeting minutes were approved
- ASHRAE Boston Chapter (ABC) to make donation to RP in D. Diorio's name
- Will Tang motioned for Chapter to contribute towards the Boston Endowment Fund. Motion was seconded and approved by all
- Will Tang noted DAC Sales (Rick McGinley) donated to RP
- Chapter to no longer pursue Chapter Opportunity Fund
- Mike Gilroy noted draft application for 2016-2017 Hall of Fame near completion. Draft to be proofread then distributed amongst BOG for review and comment. Hall of Fame inductee announcement to be made at future meeting.
- Committee chair article deliverables were discussed
- Phil Hammond from WIT attended BOG meeting seeking assistance from the Chapter to help promote WIT's graduate continuing education courses focused on design/construction.
 - Courses seem to target construction industry more so than design/engineering industry
 - Mr. Hammond interested in promoting WIT continuing education in ASHRAE newsletter, if possible
 - Yuka Narisako suggested Phil speak at the April meeting which promotes student activities as these meetings are well attended by students
- It was noted that an HVAC 101-type course would be attractive and beneficial to the HVAC industry. A reference was made to the HVAC course previously offered by Northeastern as a good example.
- PAOE point update was provided
- A proposal was made to hold a brewery tour at Nightshift on a Thursday in April 2017 for the Boston ASHRAE Chapter
- Joe Dussault emailed members seeking new YEA committee chair for next year; noted Leadership Weekend as good opportunity for future chair.
- Next YEA event at Lahey Hospital on 11/16/16. An email was sent to members and an announcement was made at the November meeting

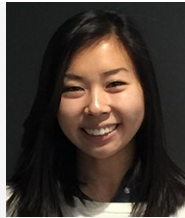
November Meeting

- Will Tang inducted Steve Rosen to Hall of Fame
- Will Tang introduced WSP Project Engineers and gave overview the evening's flow
- Night consisted of 5 tours starting at 6:30 PM, approximately 30 min. each, tours staggered by 15 min., 3 representatives from RECCO Refrigeration Equipment Company and CIMCO to be present to field questions from audience.
- Expected attendance was discussed
- Meeting registration fees were discussed and outstanding invoices were noted
- Current Chapter account balances were discussed
- November meeting costs were discussed
- Yuka Narisako made an announcement at November meeting to promote YEA
- The next Women in ASHRAE event date was announced at November meeting (12/8/16); event location TBD

December Meeting

- December meeting is a joint meeting hosted by ASPE in Randolph, MA
- Boston ASHRAE Chapter to promote meeting
- Transportation was noted as challenge; chapter to review carpool options

Meeting adjourned at 5:18 PM



STUDENT ACTIVITIES

By: Yuka Narisako

As the school semester heads into finals season, I'd like to thank all of the ASHRAE Boston student members who attended last month's Student Night at the Warrior Ice Arena. We had students representing Massachusetts Maritime Academy, Northeastern University, and Massasoit Community College. I'd like to see the attendance increase at our next Student Night scheduled for April 11, 2017. Mark your calendars!

Student Chapter Support Checks have been issued to our Student Branches. Please let me know if your Student Branch has not received your check yet. These funds are to be used for students to participate and engage in ASHRAE and the HVAC&R industry.

Once again, I encourage our student members to take advantage of the generous scholarships offered to student members through ASHRAE, both at a society level and a Boston Chapter level. Please refer to the Student Activities page on the ASHRAE Boston Chapter website for [application information](#) regarding the Cheryl Rossini Future Engineers Scholarship Application. The Society also has 33 scholarships available for the 2017-2018 academic year, and are encouraged to apply at www.ashrae.org/scholarships.

Please feel free to reach out to me at coo1sa@ashrae.org with any questions you might have. Happy holidays!

Presidential Award of Excellence

Boston Chapter - 2016-2017

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
1107	745	560	310	440	825	125	50	3055

Employment Ads

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

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

Deadline for January Newsletter: December 16th, 2016

Any questions, please contact Deanna Adkison, Newsletter Editor at 617-535-8236 or northeastaire@gmail.com



It's never too early to start thinking about your submission for the ASHRAE Technology Award competition. All you have to do is be an ASHRAE member, have an innovative or energy efficient design, and fill out the application. *Note that this program is not limited to consulting engineers/firms only; contractors can also submit projects as long as they had a Professional Engineer on their team. There are more and more design build/assist projects around today so don't be afraid to submit your projects!*

The ASHRAE Technology Awards program recognizes, on an international scale, successful applications of innovative design, which incorporate ASHRAE standards for effective energy management, indoor air quality, and good mechanical design.

The purpose of the ASHRAE Technology Awards is threefold:

- To recognize ASHRAE members who design and/or conceive innovative technological concepts that are proven through actual operating data.
- To communicate innovative systems design to other ASHRAE members.
- To highlight technological achievements of ASHRAE to others, including associated professionals and societies worldwide, as well as building and facility owners.

All current members of ASHRAE may submit entries. Entrants must have had a significant role in the design or development of the project.

ASHRAE Technology Award applications are accepted in each of the following categories:

1. Commercial Buildings (New, Existing)
2. Institutional Buildings (New, Existing)
 - Educational Facilities
 - Other Institutional
3. Health Care Facilities (New, Existing)
4. Industrial Facilities (New, Existing)
5. Public Assembly Facilities (New, Existing)
6. Residential (New, Existing)

This competition also serves as a means for the passing on of new technology to future engineers. If you have a design that you think is worth sharing go ahead and submit your design!

The CTTC RVC establishes schedules, as applicable, for each region. Chapter entries are usually due in late February - early March (contact CTTC Chapter Chair). Regional entries must be submitted by chapters to the RVC by approximately May 15 (exact time set by RVC). The RVC must submit entries from the regional competition to ASHRAE Headquarters by September 1.

For more information the "Technology Award Program Overview, Requirements, Judging Criteria and Helpful Hints" are available on ASHRAE's website at the following link <https://www.ashrae.org/membership--conferences/honors--awards/technology-awards-program-overview> Good luck everyone that participates!

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HISTORICAL NEWS

By: Eric Edman



The historical committee wishes all of you a happy holiday season and an eventful and prosperous 2017. It has been a wonderful 2016 for all of us to serve you.

Eric Edman
Reddy Tupakala
Thanh Huynh

Our group received some creative suggestions for historical topics. We will write one of these up, and publish it for the January edition. There are no other major news announcements to be noted.

We always look forward to seeing you at our monthly meetings.

Eric and the committee

ASHRAE BOSTON UPCOMING EVENTS

Visit <https://ashraeboston30.wildapricot.org/resources/Documents/Save%20the%20Date%205.pdf> for more information.

December Meeting

When: December 13, 2016
Where: Lantana, Boston

January Meeting

When: January 10, 2017
Where: Embassy Suites, Waltham

ASHRAE YEA Social Event

When: January 12, 2017 7:00-9:00pm
Where: Good Life Boston

February Meeting

When: February 15, 2017
Where: Metro Meeting Centers

BOSTON AREA UPCOMING EVENTS

AFE Boston Chapter 33
www.afechapter33.org

IFMA Boston Chapter
www.ifmaboston.org

BOMA Boston Chapter
<http://www.gbreb.com/boma/>

Sustainable Performance Institute
<http://www.sustainable-performance.org/>

AFE Chapter 74-Worcester Area-Central MA
www.afe74.org

USGBC Massachusetts Chapter
www.usgbcma.org

AEE New England Chapter
www.aeenewengland.org/

IBPSA Boston Chapter
<http://ibpsa-boston.com/>



MEMBERSHIP PROMOTION

By: *Dan Carington*

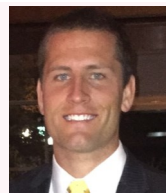
Hello Members, hope everyone had enough to eat for Thanksgiving. The year is almost over, it is currently December already. Membership Promotion Night is coming up in January 10, 2017 at the Embassy Suites in Waltham. Bring a nonmember and have them experience the Boston ASHRAE member hospitality.

Anyone interested in becoming a member will be able to find membership pamphlets at the sign in table. You can also join ASHRAE Boston chapter via the web by going to <https://www.ashrae.org/membership--conferences/join-now/how-to-join-ashrae>

Please help me welcome our new members since October by giving them a warm welcome;

- | | | | |
|------------------------|------------------------|----------------------|-----------------------|
| Mr Andrew C Brown | Mr Ryan W Griffin | Mr Richard Weathers | Mr Patrick Colb |
| Mr Zhaohui Sun | Mr Joseph Merullo | Mrs Viveka Devadas | Mr Zachary Baron |
| Mr Colin E Skinner | Miss Rayya A Karaa | Mr Niholas Botsch | Ms Dariana Brazil |
| Ms Monica Chilcot | Mr Kervin Claude | Mr Western T Dennett | Mr Kevin Donato |
| Mr Joshua Daugherty | Mr Patrick O'Rourke | Ms Lauren Fitch | Mr Ryan Gagnon |
| Mr Cal Garufo | Mr Kyle Hanson | Ms Melissa Harris | Mr Christopher Gorman |
| Mr Robert Hines | Mr Timothy Hird-Devlin | Mr William O'Rourke | Ms Erica Overstreet |
| Mr Michael S Pantos Jr | Mr Alex C Pettenati | Mr Justin Pickering | Miss Brianna Pingree |
| Mr Daniel Quinn | Mr Andrew Salas | Mr Connor Schoening | Mr Ryan Martin |
| Mr Matthew Monahan | Mr Liam Sluvin | Ms Emily Yen | Mr Jose Sotlitren |
| Mr Jake Spinetto | Mr Bryan Stier | Mr Thomas Sylvester | Mr Benjamin Vermeulen |
| Mr Patrick Wall | Mr Joshua Wallace | Mr Michael Warmica | Ms Eleanor Hoyt |
| Mr Siddharth Pannir | | | |

Welcome, we are so looking forward to seeing you at our next Boston ASHRAE event. Any comments or questions, please feel free to contact me at dcarington@brplusa.com



Webmaster's Notes

By: *Kevin Doty*

Did you know? The website also acts as a membership management software. We have well over 1,000 contacts in our database. The monthly meeting emails you receive are automated and sent out via the website.

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 coo1web@ashrae.net



RESEARCH PROMOTION

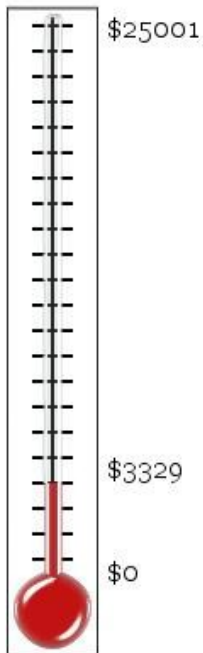
By: Stacie Suh

Dear ASHRAE Members,

As always, I would like to extend my sincerest thanks to you for your support of ASHRAE Research last year. It's because of your support that we were able to fund more than \$14 Million dollars worth of research. More than 80 research projects world wide received support from ASHRAE because of your investment. We've begun the 2016-2017 Campaign already and I hope we can once again count on your support of ASHRAE Research this year. The Boston Chapter goal for 2016-2017 is \$25,001, Region I goal \$188,000 and society goal is \$2.6 million.

We have raised \$3329 so far, we need your help to get to half our goal by end of December 2016.

Thank you to following Donors:



Dr Benjamin S Weil
 Mr Robert J Persechini
 Mr Robert J Barstow, PE
 Mr Warren E Hudson
 Kirschner Associates Inc
 Ms Stacie Suh
 Mr William K Tang
 Ms Deanna Jean Adkison
 Mr Michael P Gilroy
 Mr Mark Leonard
 Ms Darcy A Carbone
 Mr Lance Brown
 Mr Jeffrey Zajac
 Boston ASHRAE Chapter
 Mr John M Swift, Jr
 Mr Daniel P J Carington
 Mr John F Coffey, Jr

Mr Steven J Lappin
 Mr Edward Dullea
 Mr Anthony H Castelle
 Victory Heating & Air Conditioning
 Ms Christine Reinders-Caron
 TNZ Energy Consulting
 Mr James E Armstrong
 Mr Stephen Lahti
 RECCO
 Mr Christopher M Wysoczanski

Green Footprints Commissioning

Mr Steven L Rosen

Mr Karl R Hudson

Mr Richard D McGinley

As always, you may also make your investment online at www.ashrae.org/donate. If you are interested in donating in other method than online, please let me know.

Your contribution will automatically go toward helping the Boston Chapter reach our RP goal for 2016-2017.

If you'd like a list of research projects being conducted in the region or about specific topics, please let me know.

Here are few links that you might find useful.

- Also you can find more information on resource promotion, please go to <https://www.ashrae.org/standards-research-technology/ashrae-rp>.
- If you are interested in important dates and deadlines for research projects please click on <https://www.ashrae.org/standards-research-technology/research>.
- These Research Project Final Reports document the results of the research project, and are approved by the sponsoring Technical Committee. ASHRAE members have free access through the Members-Only Research Projects Final Reports site.
- If you are interested in submitting solicited research project, go to <https://www.ashrae.org/standards-research-technology/research>.
- If you are interested in donating to ASHRAE Resource, go to www.ashrae.org/donate

Again, Thank You for your continued support of these vital projects – it's greatly appreciated.

Please contact me with any questions at stacie.suh@dxseng.com.

Stacie Suh /RP Chair 2016-2017

[Email](#)



By: Steve Rosen

Grassroots Government Advocacy Committee.

Federal Activities

U.S. EPA Issues New Refrigerant Leak Management Rules

WASHINGTON, D.C.—The U.S. Environmental Protection Agency (EPA) has issued new rules that update the safe handling requirements that currently apply to ozone-depleting refrigerants, and extend them to refrigerant substitutes such as hydrofluorocarbons (HFCs) that previously were exempted from the venting prohibition of the Clean Air Act. The new rules, which come into effect on Jan. 1, 2017, lower the leak rate thresholds that trigger the "duty to repair" refrigeration and air-conditioning equipment containing 50 lb or more of refrigerant. Specifically, the industrial process refrigeration threshold is lowered from 35% to 30%, commercial refrigeration equipment is lowered from 35% to 20%, and comfort cooling equipment is lowered from 15% to 10%.

GGAC Regional and Chapter Activities

EWeek 2017

Engineers Week (EWeek) 2017 will be held February 19-25, 2017. This year as in past years, GGAC is encouraging our Chapters to obtain proclamations from elected officials (Mayors, Legislatures, Governors, Provincial officials, etc.). Information, draft proclamations and cover letters will be posted soon on the GGAC website. Mark your calendars now and watch for more details soon.

New York City Mandates Benchmarking, Lighting Retrofits for Midsize Buildings

NEW YORK—Mayor Bill de Blasio recently signed a package of bills that set energy and water benchmarking, lighting retrofitting and submetering requirements for midsize buildings in New York City. The first bill requires midsize building owners to report benchmarking data on their whole building energy and water use to the City. The second bill requires midsize building owners to install submeters in nonresidential tenant spaces and report energy use to the tenant. The third bill requires owners of midsize buildings to retrofit the lighting systems in nonresidential spaces to comply with the New York City Energy Code by 2025. The mayor's office says the bills are expected to reduce greenhouse gas emissions by nearly 250,000 metric tons, and spur retrofits in 16,000 buildings. New York defines a "midsize" building as one between 25,000 ft² and 50,000 ft².

Revised Standard 90.2 Open for Public Review

ASHRAE and IES are revising Standard 90.2 with a goal of making it 50% more efficient than the 2006 International Energy Conservation Code, which serves as the industry benchmark. "Key to accomplishing this objective is delivery of an accurate, flexible performance-based tool to enable user creativity in meeting the performance objectives. The new standard contains detailed rules governing the energy modeling and analyses needed to determine compliance with the performance objectives," said Theresa Weston, chair of the Standard 90.2 committee. ASHRAE/IES Standard 90.2-2007R, *Energy Efficient Design of Low-Rise Residential Buildings*, provides a mechanism by which any residential building design can be easily evaluated against performance objectives. By establishing a clearly-defined rules set for energy performance modeling, users can easily assess various designs, material options, orientations and other variables to evaluate predicted energy performance, according to Weston. The revised standard is open for public comment until Dec. 19.

Addenda to Standard 189.1 Open for Public Review

An addendum that would change the commissioning requirements in ASHRAE/IES/USGBC/ICC Standard 189.1, *Standard for the Design of High-Performance Green Buildings, Except Low-Rise Residential Buildings*, to increase its ability to support achieving high performance green buildings is among the 11 addenda that are open for review. Addendum *aq* updates the standard's requirements for building systems commissioning. "We want to update the standard to reflect experience gained in applying the existing requirements as well as to keep current with trends and terminology in the evolving commissioning industry," said committee chair Andrew Persily. Other addenda under review cover topics such as treatment of waste materials; lighting power density requirements for exterior parking areas; testing, installation and commissioning of air curtains; and life-cycle assessment of buildings. Eight addenda are open for review until Dec. 4. The other three are open until Dec. 19.

Your Boston GGAC committee welcomes your articles and event suggestions!

Please contact Christine Reinders, Stacie Suh or Steve Rosen.

stacie@stebbinsduffy.com
creinders@CANNONDESIGN.COM
srosen@RDKEngineers.com



By: Joseph Dussault

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

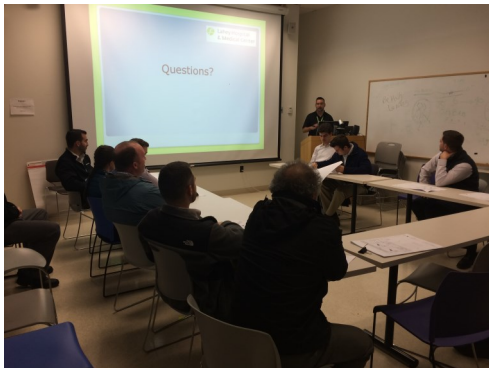
January – Networking Event at Good Life

March – Annual Cornhole Tournament

April – ASHRAE YEA Night

Lahey Technical Tour

Our second technical tour at Lahey Medical Center went excellent! Charles Viveiros (Lahey) and Paul Cantrell (Lahey) gave YEA members a detailed presentation on the 3 MW reciprocating cogeneration plant that provides electricity, steam and hot water to the hospital. YEA members participated in the question and answer section of the presentation, and got a chance to review all of the CHP components.



Tom Watson (Suffolk) and Michael Slejzer (Lahey) gave YEA members a presentation and tour on the new ED Addition Project. The tour included a walk-thru of each space and an

explanation on the input from the hospital end users that helped drive the design.



YEA members met at Tavern in the Square Burlington after the tour for networking with peers.

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 let me know. Additionally, ASHRAE offers a leadership weekend for future ASHRAE leaders. This year's leadership weekend will be held in Denver, CO on March 3, 2017. 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>

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 co01yea@ashrae.net.

FREE SUNDAY RIVER & SUGARLOAF DISCOUNT SKI VOUCHERS, SAVE \$10 PER TICKET

The Boston Chapter is participating in the Sunday River/Sugarloaf corporate voucher program again this year. Each voucher entitles you to purchase up to four discounted lift tickets at either ski resort by presenting an ASHRAE membership card, picture ID, and voucher. The discount is \$10 per ticket for all age groups. Contact Ed Waldman, ewaldman1@verizon.net, and the voucher will be e-mailed to you. You can make as many copies as you like.. There is no charge for the vouchers and there are no blackout dates. Complete rules below:

How To Use Vouchers

1. Bring your corporate voucher to any participating resorts ticket window.
2. Present your voucher, photo ID, and valid ASHRAE membership card to the ticket seller. In the absence of the individual member, immediate family members defined as spouse and children, must present some form of ASHRAE identification, plus a photo ID in order to receive the discount.

Each person expecting the corporate pricing must be present with the corporate voucher holder at the time of ticket purchase. The ticket seller will take the voucher in exchange for up to 4 lift tickets.

Winter Season 2016/2017 Corporate Voucher

Present your **Corporate Voucher**, photo ID (driver's license, etc.) and valid company ID (company ID, business card, pay check stub, letter on company letterhead) to the ticket seller. In the absence of the individual directly employed by or member of the participating company, immediate family members, defined as spouse and children, must present the **Corporate Voucher**, some form of corporate identification (business card, pay stub, or letter from employer), plus a photo ID. Young children do not need a photo ID to receive the corporate discount.

Corporate Program Pricing: **\$10 OFF**



**American Society of Heating,
Refrigeration & A.C.
Engineers**



Corporate Voucher is valid for 4 ticket vouchers.

Boyer Reward Points are given to the company participating in the corporate program and cannot be redeemed by the individual participants

<http://sugarloaf.com/the-mountain/daily-report>

<http://www.sundayriver.com/TheMountain/MountainReport/index.asp>

Changes to Commissioning Requirements Proposed for Green Building Standard

ATLANTA – Changes to the commissioning requirements in Standard 189.1 that would increase its ability to support achieving high performance green buildings are open for public input.

Published by ASHRAE, the Illuminating Engineering Society (IES), the U.S. Green Building Council (USGBC) and the International Code Council (ICC), ASHRAE/IES/USGBC/ICC Standard 189.1, *Standard for the Design of High Performance Green Buildings*, contains minimum requirements for the siting, design and construction of high performance green buildings in support of reducing building energy use, resource consumption and other environmental impacts, and maintaining acceptable indoor environments.

Eleven addenda to Standard 189.1 currently are out for public review. For more information or to submit a comment, visit www.ashrae.org/publicreviews

Proposed addendum *aq* updates the standard's requirements for building systems commissioning. Committee chair Andrew Persily said the requirements are being changed for several reasons.

“We want to update the standard to reflect experience gained in applying the existing requirements as well to keep current with trends and terminology in the evolving commissioning industry,” he said.

In addition to addendum *aq*, addenda *ap* and *as* are open for review until Dec. 19.

Addendum *ap* updates the normative references in Section 11 and the informative references in Appendix G, primarily to reflect the latest publication dates in referenced standards.

Addendum *as* updates the acoustical requirements based on new technical requirements as well as review of the International Green Construction Code, Acoustical Society of America documents, Facilities Guideline Institute healthcare guide and the U.S. Green Building Council's LEED. The changes include a requirement that room background noise levels be controlled by calculation instead of by prescribing several interrelated features, allowance of either a prescriptive or testing approach for building envelope and interior assemblies, requirements for mechanical equipment and noise to adjacent properties by equipment and addition of a new section on acoustical testing.

In addition, seven addenda are open for public comment until Dec. 4, 2016. They are:

- Addendum *ae* addresses plans for the treatment of waste materials originating from the development of a building project site.
- Addendum *ag* creates a new definition for plants that are suitable for inclusion in this standard.
- Addendum *ah* revises the lighting power density (LPD) requirements for exterior parking areas.
- Addendum *ai* adds requirements for testing, installation and commissioning of air curtains when they are installed in building entrances.
- Addendum *aj* revises the bi-level motion control requirements to better align with addendum *as* to ASHRAE/IES 90.1-2013, *Energy Standard for Buildings Except Low-Rise Residential Buildings*.
- Addendum *al* modifies the provisions for electric vehicle charging infrastructure.
- Addendum *ak* updates the standard's life cycle assessment of buildings.
- Addendum *am* modifies the roof heat island mitigation section that was changed via addendum *i*.

ASHRAE, founded in 1894, is a global society advancing human well-being through sustainable technology for the built environment. The Society and its more than 56,000 members worldwide focus on building systems, energy efficiency, indoor air quality, refrigeration and sustainability. Through research, standards writing, publishing, certification and continuing education, ASHRAE shapes tomorrow's built environment today. More information can be found at www.ashrae.org/news.

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2016-2017 Meeting Schedule

Date	Main Meeting/ Tech Session	Speaker	PDH Credits	Location/ Special Night
September	Lessons Learned	Steve Tafone	1.0	Embassy Suites 550 Winter St. Waltham
Wednesday September 21, 2016	N/A		N/A	Research Promotion/Membership Promotion
October	Net Zero Energy Building	Conor McGuire	1.0	CBRE Amenity Center 100 High St. Boston
Tuesday October 18, 2016	Tech Session: Coil Freeze Protection	Cooney Coil	TBD	Past Presidents & History
November	Tour of Bruins' Training Facility		-	Warriors Ice Arena 80 Guest St. Boston
Tuesday November 8, 2016	N/A	N/A	N/A	Student Activities/ Young Engineers in ASHRAE/Women in ASHRAE
December	Solar Heating - Hosted by ASPE	TBD	TBD	Lantana 43 Scanlon Dr. Randolph
Tuesday December 13, 2016	Tech Session: TBD	TBD	TBD	Joint Meeting with ASPE
January	Steam Design	Kevin Foley	TBD	Embassy Suites 550 Winter St. Waltham
Tuesday January 10, 2017	Tech Session: Montreal Protocol Refrigerant Updates	Trane	TBD	Research Promotion/Membership Promotion
February	Space Pressurization	Jim Coogan	TBD	Metro Meeting Centers 101 Federal St. Boston
Wednesday February 15, 2017	Tech Session: Proper Venting of Fuel Fired Appliances	Frank I Rounds	TBD	Joint Meeting with I2SL
March	Demand Reduction - Hosted by AEE	TBD	TBD	TBD
Wednesday March 1, 2017	Tech Session: TBD	TBD	TBD	Joint Meeting with AEE
April	Attract, Retain & Promote Women in the HVAC Industry	Ginger Scoggins	TBD	Metro Meeting Centers 101 Federal St. Boston
Tuesday April 11, 2017	Tech Session: Back to Basics - Psychometrics	Ginger Scoggins	TBD	Student Activities/Young Engineers in ASHRA/Women in ASHRAE
May	Installation of Officers		N/A	TBD
Tuesday May 9, 2017				
June	Golf Outing	Jim Liston	N/A	Halifax Country Club, Halifax, MA
Monday June 5, 2017				Research Promotion

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