October Meeting

Tuesday, October 13, 2015

Main Meeting:
Towards ZEB (Zero Energy Buildings)

Directions:
Metro Meeting Centers – Boston is located on the 4th floor of 101 Federal Street, a 31-story skyscraper in the Financial District of Boston. The building is also known as 75 – 101 Federal Street, because the single lobby joins two towers. Upon entering, locate the elevator banks for 101 Federal Street and take any elevator to the 4th floor.

Parking:
Preferred parking at 33 Arch Street Garage ($10 after 5:00 PM)

Meetings Manager:
Mark Leonard
MCL@brplusa.com

Where:
Metro Meeting Centers
101 Federal St.
Boston, MA

Meal:
Salad
Chicken pot pie
Cookies & brownies

Time:
5:15 - 6:00
5:30 - 6:15
6:15 - 7:00
7:00 - 8:00

Technical Session
Social/Registration
Dinner
Announcements & Main Program

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

Special thanks to our Sponsors:

Gold:
RDK Engineers

Silver:
Stebbings Duffy
RG Vanderweil
Daikin
Renewaire
Victaulic

Please register online at www.ashraeboston.org. RSVP by 12:00 PM on Thursday, October 8, 2015.

If you have any questions, you may contact Erin Popa, Attendance Chair, at ashraebostonattendanced@outlook.com.

Thank You

Statements made in this publication are not expressions of the Society or of the Chapter and may not be reproduced without special permission of the Chapter.
ASHRAE Boston Chapter had its first meeting at TD Garden in Boston. Please refer to meeting recap section written by Andrew Krenning for details of September meeting.

I would like to first thank Andrew McFadden for the amazing tours around TD Garden and secondly, I would like to thank all panel speakers, Andrew McFadden (Manager Facilities & Engineering), Dave Trumble (Cannon Design), Chris Trent (Siemens), Enis Pacavar (Sylvania Lighting Solution) and Pat McDonnell (Eversource). In addition, I would like to thank Regina Durga (Siemens) for great presentation of Facility Solutions for TD Garden and to all attendees at the September meeting. Special thanks to Siemens for making this event possible and a great success. :)

This month’s meeting will be held on October 13 at 101 Federal St in Boston. Please join us in welcoming main meeting speakers Per Heiselberg from Aalborg University in Denmark, Bjarne Wilkens Olsen from Technical University of Denmark and their guests. Please also join us for the technical session prior to the main meeting. We have a line up of great technical speakers for our October meeting.

Hop to see you all at the October meeting! I encourage all Boston members to bring along non-members to this event. We need your support to keep Boston Chapter growing and to share the good news with our local community.

ASHRAE Boston chapter has made available corporate sponsorship opportunities. Please contact Will Tang at wtang@brplusa.com for more information. We look forward to your sponsorships which will support Boston chapter greatly. A huge “Thank you” goes out to Daikin, RDK Engineers, RenewAire, RG Vanderweil, Stebbins Duffy and Victulic who are already part of the sponsorship program and supporting Boston Chapter.

I look forward to meeting all of you throughout the year. I would love to hear from you with any thoughts you might have in regards to ASHRAE Boston Chapter. You can email me at stacie@stebbinsduffy.com

Thank you

Stacie Suh
ASHRAE Chapter President

Materials for the November newsletter are due by **October 16, 2015**.

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

Please see the website for additional information [www.ashraeboston.org](http://www.ashraeboston.org).

**EDITOR’S NOTE**

**By: Deanna Adkison**

For more information, please e-mail northeastaire@gmail.com
The ASHRAE Boston Chapter kicked off the year with a great September chapter meeting at the TD Garden in Boston, MA. The evening started with members and guests networking in the Legends restaurant for cocktail hour. This time gave everyone an opportunity to catch up from the summer break while enjoying passed hor d’oeuvres and finger foods.

The meeting was kicked off by ASHRAE Boston President Stacie Suh who welcomed everyone to the first meeting of the new year and outlined the list of activities and meetings lined up for the year. She then introduced the main meeting guest speaker Regina Durga. Mrs. Durga is a Sr. Account Executive for Siemens Building Technologies with over 15 years in a variety of capacities in the energy industry. With her knowledge and involvement with the TD Garden, she presented on the recently completed Performance Contracting project. Mrs. Durga gave an overview of the project, information on some of the larger ECMs, project drivers and some challenges faced during construction.

After the presentation was completed, she turned it back over to Stacie Suh who led the panel discussion. The panel included Chris Trent - Siemens Energy Engineering Operations Manager, Enis Pacavar - Sylvania Lighting Solutions Energy Manager, David Trumble - Mechanical Engineer at Cannon Design, Pat McDonnell - Eversource Account Executive and Andrew MacFadyen - TD Garden Manager of Facilities and Engineering. The panelists were able to provide a lot of information and insight into the project, what role they played, how a performance contract works, how energy savings are guaranteed and what some of the major hurdles and success of the project were. One of the key takeaways from the evening was how important and critical a collaborative design and construction process is to the success of the project. It was clear that without this type of teamwork and all of the technology partners working together on a project of this size and complexity, the project would have not been as successful as it was.

The evening concluded with a facility tour lead by Andrew MacFadyen. The tour included a view at ice level of the fresh sheet that was completed earlier that week, one of the chiller plants and the two dehumidification units located on the roof. Another tour was lead by the Assistant Curator of the Hall of Fame who was able to escort a small group and share stories and information about various pieces of sports history that’s on display around the Garden.

A very special thanks to Siemens, the event sponsor, and all the volunteers for helping to arrange this great event. Hope to see everyone at the next meeting.
1. **Bio of each Main Presenter:**

**Per Heiselberg**, Professor Aalborg University, Denmark. Has for more than 25 years conducted research and teaching within energy-efficient building design, ventilation and air flow in buildings with special focus on the use of technologies like natural and hybrid ventilation, passive and natural cooling. Is currently leading EBC Annex 62 an international research cooperation on ventilative cooling.

**Bjarne Wilkens Olesen**, Professor, Ph.D, FASHRAE. Head of International Centre for Indoor Environment and Energy, Technical University of Denmark. ASHRAE Treasurer. He has worked more than 40 years with research related to the indoor environment and HVAC systems. Especially radiant heating and cooling systems in industry and at university level. 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 370 papers including more than 80 in peer reviewed journals.

2. **Bio of each Technical Session Presenter:**

**Guilherme Carrilho da Graça**, University of Lisbon, Portugal, is an Assistant Professor in Building Energy Systems (DEGGE, since 2010) and the owner of NaturalWorks Consultants. Since 2002 he as worked in high performance building design and simulation in the US, Brasil, Mozambique, Italy, France and Portugal. His main area of expertise is building energy simulation and natural ventilation design.

**Annamaria Belleri**, EURAC, Italy: Annamaria Belleri, Institute for Renewable Energy - EURAC, Italy: completed her PhD in Integrated Design methods for natural ventilation in 2014 and is currently working as senior researcher within the Energy Efficient Buildings group. She is involved in several international projects dealing with ventilative cooling strategies in buildings, such as IEA Annex 62 “Ventilative cooling” and FP7 “CommONEnergy” project.

**Per Heiselberg (same as above)**

3. **Technical Session Description:**

Ventilative cooling solutions are increasingly used in building design. The idea behind, typical principles and solutions are presented in the session. First the development of a tool to evaluate the climate potential of ventilative cooling as well as its application to a case study is presented and discussed. An example of the design methodology and tools used to design ventilative cooling of a high-rise office building in Lisbon is presented. Finally, the performance characteristics of diffuse ceiling supply - a novel air distribution system to supply very cold low-impulse air to a space – are presented.

4. **Main Presentation Description:**

The course will provide the participants with knowledge on ways to reach zero energy buildings by decreasing energy demand, use of energy efficient building technology (facades, heating, cooling, and ventilation) combined with renewable energy sources. They will learn about some activities in Europe and US to reach ZEB in the near future. Finally a deeper knowledge on existing energy efficient systems for heating, cooling and ventilation of buildings will be obtained.
Job Title – Marketing and Social Media Intern - Fall 2015

Are you excited about entrepreneurship in the Cleantech sector? Do you want to help organizations reduce their greenhouse emissions? Are you looking to work in an exciting start-up environment that has a product ready to go? Are you interested in working at the ground floor of a start-up just starting to sell and distribute their product?

CoolGreenPower creates a public benefit by providing solutions that reduce energy consumption and emissions while helping customers to save money. We provide these solutions to businesses, governments, and non-profits.

In May 2015, we launched our first set of products, COOLNOMIX® smart energy efficiency devices for commercial air conditioning and refrigeration which significantly reduce energy consumption while improving temperature control / comfort. Energy savings average 35% for air conditioning and 25% for refrigeration. We are looking to transform how the world discovers the great opportunities to save money while reducing emissions using our proven technology.

Our ideal candidate is someone who is developing a career in HVACR technologies, is energetic, loves social media and website creation. Someone who is thoughtful when interacting with online communities and building relationships. You should be someone who wants to learn and is willing to help as necessary in an entrepreneurial environment.

What You Will Learn:

- Experience maintaining and improving a commercial website, including B2B eCommerce
- Maintaining and expanding a social media presence for the business with tools such as Twitter, Youtube, LinkedIn, Facebook, Hootsuite etc.
- Interacting with HVACR media channels (eg, online, print) as a channel to grow our brands
- How to communicate with sales to produce great collateral and create compelling content
- Business experience from our dynamic leadership team who have more than 50 years of combined experience in building start-ups and in leadership positions in Fortune 500 companies
- How to interact with technology inventors to understand first-hand how their HVACR technologies work to save our planet and translating that to effective marketing material
- Entrepreneurship
Job Title – Operations and Technical Support Intern - Fall 2015

Are you excited about entrepreneurship in the Cleantech sector? Do you want to help organizations reduce their greenhouse emissions? Are you looking to work in an exciting start-up environment that has a product ready to go? Are you interested in working at the ground floor of a start-up just starting to sell and distribute their product?

CoolGreenPower creates a public benefit by providing solutions that reduce energy consumption and emissions while helping customers to save money. We provide these solutions to businesses, governments, and non-profits.

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Our ideal candidate is someone who is developing a career in HVACR technologies, is energetic, passionate about energy efficiency and desires hands-on experience with new energy efficiency HVACR technologies. You should be someone who wants to learn and is willing to help as necessary in an entrepreneurial environment.

What You Will Learn:

- How to identify and validate energy efficiency opportunities for commercial air conditioning and refrigeration systems
- How to interact with utilities, distributors, and resellers to help them understand how our products work technically to achieve energy efficiency outcomes (eg, energy savings, improved temperature control / comfort / product safety)
- How to support new and existing installers who are preparing to install, installing, or trouble-shooting an installation of our products
- How to communicate with marketing and sales to produce great collateral and create compelling content
- Experience from our dynamic leadership team who have more than 50 years of combined experience in building start-ups and in leadership positions in Fortune 500 companies
- How to interact with technology inventors to understand first-hand how their HVACR technologies work to save our planet and translating that to effective marketing material
- Entrepreneurship
HISTORICAL NEWS
By: Eric Edman

Some of you may recall we had an urgent request for storage space last year. We DO have a storage facility located in Brighton (Boston) which is open to anyone who wanted to visit. It is heated, dry and moderately cooled and does cost the Chapter a monthly rental fee.

My request to any of you is if you have free long term storage space (about 30 square feet) we would be interested in talking to you. You can certainly call me at any time.

Some of you may recall another request, we do have room for assistance in the History Group and we do want to thank two individuals who have already contributed time and talent towards History. If ANY of you have some small sort of desire to do something of a historical nature we will find room for you, and have fun doing it too. Go ahead, make my day. Call us.

A year ago we reported progress towards an electronic listing of all our historical possessions. We can report today that this is complete and in a somewhat searchable format. You can inquire about anything and we can look it up. Like the library, we are a service to you.

We look forward to your attendance at future meetings.

Eric
617-925-8325

Presidential Award of Excellence
Boston Chapter - 2015-2016

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<th>Chapter Members</th>
<th>Membership Promotion Points</th>
<th>Student Activities Points</th>
<th>Research Promotion Points</th>
<th>History Points</th>
<th>Chapter Organization Points</th>
<th>Chapter Technology Transfer Points</th>
<th>Grassroots Government Affairs Points</th>
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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:** $200 for 1/4 page, $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 November Newsletter:** October 16, 2015

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

Markup of House Energy Bill Postponed Due to Disagreements Over Climate Change, Building Energy Codes

Earlier this week, the US House Energy & Commerce Committee suddenly put the brakes on plans to mark up the North American Energy Security and Infrastructure Act of 2015. This is the same bill previously referred to as the House comprehensive energy bill or Architecture of Abundance legislation. The bill contains several provisions of interest to ASHRAE members, including support for workforce development, energy efficient federal data centers, a report on the energy and water savings potential of thermal insulation, energy efficiency in schools, and energy savings performance contracting.

The decision to postpone the markup results from a failure to reach agreement between Democrats and Republicans on issues such as climate change, the federal government’s use of fossil fuels, and building energy codes. While somewhat surprising, this is likely only a speedbump, as it is widely expected that the Committee will take up the bill later this month or early next. By that time, the two Parties will either decide to proceed with a bipartisan bill that may contain more controversial amendments offered during floor debate, or Republicans will choose to charge ahead with a bill more heavily laden with their priorities.

Hope remains strong for a bipartisan bill, as it was unanimously approved in July by the Energy and Power Subcommittee of the Energy & Commerce Committee.

DOE Reopens Comment Period for Rulemaking on Certain Air-Cooled Commercial Packaged Air Conditioning and Heating Equipment


Economic Impacts and Energy Savings Analysis of Energy Conservation Standards for Residential Non-Weatherized Gas Furnaces Completed by DOE

DOE has completed a provisional analysis of the potential economic impacts and energy savings that could result from promulgating amended energy conservation standards for residential non-weatherized gas furnaces (NWGFs) that include two product classes defined by input capacity and has published the data on its webpage. DOE encourages stakeholders to provide any additional data or information that may improve the analysis.

Continued on Next Page...
Continued from Previous Page

GGAC Regional and Chapter Activities

Legislative Sessions for 2016

Listed below are the dates legislatures will convene in 2016 for all 50 states plus the United States Congress and the District of Columbia City Council.

- Connecticut: February 1
- Maine: January 6
- Massachusetts: January 6
- New Hampshire: January 6
- New York: January 6
- Rhode Island: January 5
- Vermont: January 5
- US Congress: January 3

The Vermont Board of Professional Engineering voted 4-1 to reject a move to increase the educational requirement from a bachelor's degree to a master's degree at their May 7, 2015 meeting.

Over the past few months, the Board has received a tremendous amount of input from the public on this issue including a full-day public hearing two months ago that gave all interested parties the opportunity to voice their opinion without any time limits or constraints. Additionally, ASHRAE joined ASME and 10 other national societies in sending a letter of opposition to the proposed change. After careful consideration, the Board came to the determination that there is not sufficient reason or evidence to support any proposed legislation to increase the minimum education required for licensure to a Master's degree or equivalent.

ASHRAE New York Chapter Meets with Delegation from China

On August 26th ASHRAE NY members Jin Jin Huang, Charlie Marino, Jose Rodriguez, and Juan Carlos Toro met with 15 delegates from China's Energy Conservation Centers in a meeting organized by the National Association of State Energy Officials (NASEO). Discussion topics included energy efficiency policies and programs in place for New York City and across the United States. The delegation was interested to learn specifics related to ASHRAE Standard 90.1 and ASHRAE's energy audit methodology. The meeting was a success and future communications are a possibility.

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
steven_rosen@haa-engineers.com
I’ve hit the ground running in my new role as the Research Promotion Chair for 2015/2016! We’ve already received several contributions from Boston Chapter members this ASHRAE year! The Boston Chapter and ASHRAE Society truly thank those who have donated this year, and in the past. Please take a look at the last page of this newsletter for the most recent contributors.

A couple of weekends ago I attended the Centralized Training seminars for all of the Research Promotion Committee chairs. This was a remarkably informative 2 days for me. The RP staff from Society did a great job explaining all of the ins and outs about how donations are received, recognized, and where the funds go. It’s extremely important information as I embark on my 2015/2015 campaign.

The November Boston Chapter meeting will be a Donor Recognition Night. I’d like to personally invite all of last year’s contributors to attend and be recognized. I’ll be following up with phone calls as well, but please mark your calendar.

Donations to ASHRAE Research can be made in two easy ways. Donate online at ashraeboston.org or ashrae.org/contribute. You can also mail a check directly to me at:

Dan Diorio
Boston College – St. Clements Hall
140 Commonwealth Ave
Chestnut Hill, MA 02467

Feel free to contact me with any questions about donations. If there are ASHRAE members looking to help out with the committee or suggest fundraising ideas, please email me at any time at dan.diorio@bc.edu.
RDK ENGINEERS
Proud to be a sponsor for the ASHRAE Boston Chapter

MECHANICAL
ELECTRICAL
PLUMBING
FIRE PROTECTION
TECHNOLOGY DESIGN
COMMISSIONING
SUSTAINABILITY

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RDK understands how engineering affects people
www.rdkengineers.com
How is everyone doing in class? By now, you’re all probably ready for a break and a chance to socialize. The October meeting is in Boston and happens to be our first Student Night. I’m hoping to attract some of our student members that typically have a difficult time getting to Waltham. Please sign up early so I know you’re coming! As always, there will be plenty of future employers in attendance for you to mingle with.

Take a look at the Student Zone page on the ASHRAE Society website. It’s a great resource for information on the happenings with ASHRAE students. It contains updates on things such as Student Design Competitions, student activities planned for the Winter Meetings, and opportunities for scholarships and grants. For now, information regarding the 2016 Student Design Competition has been posted. I’d love to see some entries from the Boston area this year.

As I mentioned last month, this will be my last year as the Student Activities Committee Chair. I’m looking for the perfect replacement and would like to start training them for the position as soon as possible. If you or someone you know would be interested in running this fun and rewarding committee, please contact me at any time via email at dan.diorio@bc.edu or stop by and say hello at one of the monthly meetings.

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**ASHRAE BOSTON UPCOMING EVENTS**

Visit [www.ashraeboston.org/upcoming-events/announcements.html](http://www.ashraeboston.org/upcoming-events/announcements.html) for more information.

**October Meeting**
When: October 13, 2015  
Where: Metro Meeting Centers, Boston

**November Meeting**
When: November 10, 2015  
Where: Embassy Suites, Waltham

**December Meeting**
When: December 8, 2015  
Where: Embassy Suites, Waltham

**January Meeting**
When: January 19, 2016  
Where: Embassy Suites, Waltham

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**BOSTON AREA UPCOMING EVENTS**

**Women in STEAM Symposium**  
October 24th, 2015  
Email: SteamSymposium@akfgroup.com for more information

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

**AFE Chapter 74-Worcester Area-Central MA**  
http://chapters.afe.org/chaptersnew/index.cfm?chapterIndex=2

**USGBC Massachusetts Chapter**  
www.usgbcma.org

**IFMA Boston Chapter**  
www.ifmaboston.org/

**AEE New England Chapter**  
www.aeenewengland.org/

**IBPSA Boston Chapter**  
http://ibpsa-boston.com/
Proposed Facility Smart Grid Model Standard Reaches Globally: Open For Public Review

A proposed standard from ASHRAE and the National Electrical Manufacturers Association (NEMA) to create smart facilities supporting smart grids is part of an international effort. The proposed standard is open for public review from Aug. 7 until Oct. 6, 2015.

To read the draft standard or to submit comments, visit www.ashrae.org/publicreviews.

ASHRAE/NEMA Standard 201P, Facility Smart Grid Information Model, would provide a common basis for electrical energy consumers to describe, manage and communicate about electrical energy consumptions and forecasts.

Committee chair Steve Bushby said 201P also is being considered for adoption as an international standard through the International Organization for Standardization. In addition, the standard coordinates with and uses content from the International Electrotechnical Commission’s Common Information Model (CIM) standards. It also coordinates with the North American Energy Standards Board’s basic energy usage data model standard, informally known as Green Button, that facilitates consumer access to energy usage information for homes and commercial and industrial buildings.

“The effort to substantially modernize and transform electric grids around the world is an enormous undertaking that reflects both the size and importance of those grids,” Bushby said. “Viewed in its entirety, it is an intentional effort involving hundreds of organizations and companies and will impact billions of people. The standards infrastructure that will be needed to support this transformation may include over 100 standards by the time that is fully in place. This standard is one part of that infrastructure.”

The proposed standard defines an object-oriented information model to enable appliances and control systems in homes, buildings and industrial facilities to manage electrical loads and generation sources in response to communication with the smart electrical grid and to communicate information about those electrical loads to utility and other electrical service providers.

“Almost all electricity is consumed in a building of some kind – homes, retail establishments, offices, schools, factories, hospitals and the list goes on,” he said. “Standard 201P attempts to capture the breadth and diversity of these consumers by using the term ‘facility.’ A facility is any kind of building or collection of buildings and all of the electrical loads or local generation sources contained within them or controlled by the facility owner.”

The standard is part of ASHRAE’s supporting efforts for the Smart Grid Interoperability Panel, a private-public partnership initiated by the National Institute of Standards and Technology to speed development of interoperability and cyber security standards for a nationwide smart electric power grid.
Anyone with an engineering education, technical training, or working experience related to the area of heating, ventilation and air conditioning can join ASHRAE. As your Chapter Membership Promotion Chair (MP) I am so looking forward to help bring more of our peers to the Boston ASHRAE Chapter. Why join ASHRAE? Well, ASHRAE is a global network, ASHRAE members bring this big world of ours together through the exchange of technical information, writing of standards and through committee work and networking. When you join the Boston ASHRAE Chapter, you are making an investment in yourself. When you become active in the Society by giving your time and sharing your knowledge, you get even more out of that investment. With that said, I’d like to thank my co-chairs for helping me on this venture, Teri Shannon, Dan Diorio, Mark Persechini and Justin Mole. Also, like to thank our current President Stacie Suh.

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

Mr Phillip Fischer    Dr Qiao Hongtao    Mr John Decker Ringo
Mr Aaron Einck       Ms Yuka Narisako  Ms Eleanor Mullard
Mr John Anastasi     Mr William Joseph Mallia Prof Justin Dascoli
Mr Adam McKnight    Ms Allison Bookstein Mr David Binstock

Welcome, we are so looking forward to seeing everyone at our next Boston ASHRAE event.

As ASHRAE members you will receive the following as part of your membership:

ASHRAE Handbook, this reference manual is the most widely cited reference for HVAC&R technology in the world. Each year, one of the four volume Handbooks is updated and delivered to you, the members, to add to your library and knowledge base. The ASHRAE Journal is a monthly magazine that brings current trends and information to your desk in either print or digital format, your choice. The ASHRAE E-newsletters, again as your choice of either a print or digital form publication, helps you keep on top of what is going on in the Society and industry worldwide! You will receive 15% discounts on ASHRAE publications through www.ashrae.org/bookstore. Over 300 titles are available to you as well as ASHRAE Standards.

Come and network at our up and coming Boston ASHRAE meetings and events for an informational program featuring speaker or topic that are key to professionals in the industry. Become a volunteer in the Boston ASHRAE Committees and get a chance to participate and lead a group toward a common goal. All this is available to our members.

Remember this month is the first of (3) meetings at Metro Meeting Centers (MMC) located at 101 Federal Street, Boston, MA. MMC is accessible via public transportation and has reduced parking rates after 5:00 PM in the 33 Arch Street Parking Garage. So please come join us and bring a potential new member because October is one of two Membership Promotion nights this season.

Any comments or questions, please feel free to contact me at dpc@brplusa.com
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.

**November** – Building Tour

**December** – Networking Event at Scholars

**January** – Annual Cornhole Tournament

**February** – Joint event with Young Professionals in I2SL

**March** – Building Tour

**More Spring Events TBD – send your ideas!**

The first ever YEA Technical Weekend will be taking place at ASHRAE headquarters

**November 6-8 discussing the following:**

*Basics of High-Performance Building Design/
Understanding Standard 189.1-2011 for High-Performance Green Buildings*

Instructor: Thomas M. Lawrence, Ph.D., P.E.

*Advanced High-Performance Building Design*

Instructor: Jeff Ross-Bain, P.E., BEMP

The 2015 YEA Technical Weekend event will be held in Atlanta, GA from November 6-8, 2015. Registration is $400 and includes hotel accommodations for Friday and Saturday, meals during the event (dinner on Friday, all meals on Saturday, and breakfast and lunch on Sunday), and all necessary materials and resources. Airfare and any ground transportation costs are not included.

Find more info on the ASHRAE Website:


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**YEA International Leadership Weekend will take place December 11-13 in Goa India:**

Register now to join other YEA members in Goa for a weekend of networking, leadership coaching, and fun. This event is an opportunity for you—the future leaders of ASHRAE—to learn more about Society, develop soft skills and network with other young professionals. Any YEA member is encouraged to register. Topics that will be discussed include (see below for a tentative schedule):

- Understanding the big picture
- Personal goals that go way beyond work
- What managers & leaders actually DO
- How to stand out at work

What successful people have in common

More info can be found on the ASHRAE Website.

DOE Releases Common Definition of Zero Energy Buildings, Campuses and Communities; ASHRAE Commends Efforts

WASHINGTON, DC – Today the U.S. Department of Energy (DOE) reached a significant milestone in bringing the building community together by releasing a common definition of a zero energy building, or what is also referred to as a “net zero energy” or “zero net energy” building.

After leading an extensive stakeholder engagement process over the past year and a half, the Energy Department released its findings in the recently published A Common Definition of Zero Energy Buildings, which states that a Zero Energy Building is “an energy-efficient building where, on a source energy basis, the actual annual delivered energy is less than or equal to the on-site renewable exported energy.” This definition also applies to campuses, portfolios, and communities. In addition to providing clarity across the industry, this new DOE publication provides important guidelines for measurement and implementation, specifically explaining how to utilize this definition for building projects.

"Reducing energy use in buildings must be a major part of the solution as we work to combat the escalating costs and impacts of climate change," said Brendan Owens, chief engineer at the U.S. Green Building Council, which represents more than 13,000 member businesses and organizations from across the building community. "While we are making significant progress to save energy in buildings, this Zero Energy Building definition developed by DOE helps increase expectations and orient the buildings industry towards even greater achievements. USGBC applauds DOE’s effort to define zero energy buildings and we look forward to continuing to champion the cause of building efficiency and renewable energy applications to meet the ambitious goals of this definition."

In collaboration with the National Institute of Building Sciences (NIBS), DOE initiated a process last year to work with a large, diverse set of building industry stakeholders to develop its common definition of what it means to be a zero energy building. Thousands of project teams throughout the country are looking to push the envelope and achieve a zero energy building. In fact, the number of zero energy buildings doubled from 2012 to 2014 across 36 states, according to the New Buildings Institute. The growth of zero energy buildings has highlighted a lack of clarity and consistency across the industry on key definitional issues that increasingly were the source of market confusion, underscoring the need for DOE to help develop a commonly accepted definition and approach.

"NIBS and USDOE have created a set of clear and concise definitions for zero energy buildings that will help to narrow the broad array of terminology currently used in the industry," said Ralph DiNola, CEO of New Buildings Institute. “These consistent definitions will contribute to the growth of zero energy building construction across this country. NBI supports the definitions as a federal position and will promote this effort through the work we do leading programs, practices and policies to get to zero across North America.”

Generally speaking, a zero energy building produces enough renewable energy to meet its own annual energy consumption requirements, thereby reducing the use of non-renewable energy in the building sector. There are a number of long-term advantages of buildings meeting this goal, including lower environmental impacts, lower operating and maintenance costs, better resilience to power outages and natural disasters, and improved energy security.

“We applaud the Department of Energy’s continuing work to promote buildings that use less energy. For more than 150 years, AIA-member architects have worked to advance our quality of life through design,” said Elizabeth Chu Richter, FAIA, president of the American Institute of Architects (AIA). “From designing the next generation of energy-saving buildings to making our communities healthier and more vibrant, the 86,000 members of the AIA shape our future through their work. The quality of this future is wholly dependent on sustainable, resilient buildings that reduce the nation’s reliance on non-renewable energy sources. That is why the Department of Energy’s work is vitally important to the industry and nation as a whole.”

Continued on Next Page...
Reducing building energy consumption in new building construction or renovation can be accomplished through various means, including integrated design, energy efficiency retrofits, reduced plug loads and energy conservation programs. Reduced energy consumption makes it simpler and less expensive to meet the building’s energy needs with renewable sources of energy. By clarifying what it means to be a zero energy building, this definition will help more building owners determine if developing a zero energy building is right for them. By creating this common definition for zero energy buildings, building owners and project teams can now better focus their effort on implementing strategies to improve the performance of their buildings.

“The National Association of State Energy Officials (NASEO) commends the Department for taking this critically important step to help define Zero Net Energy,” said David Terry, executive director of National Association of State Energy Officials (NASEO). “For too long, uncertainty in the market place around this issue has been a barrier to many private and state efforts in the move toward Zero Net Energy buildings. This action supports existing state energy office efforts which have resulted in Zero Net Energy schools in Kentucky, state office buildings in Iowa, and new homes in many states. Providing standard definitions will help states and private sector partners expand the pace of Zero Net Energy construction.”

“IBPSA-USA welcomes the development of this industry-standard definition for zero energy buildings,” said Mike Wilson, Executive Director of IBPSA, the US Affiliate of the International Building Performance and Simulation Association. “We intend to promote the use of this definition by IBPSA-USA members, who play a vital role in the development of successful zero energy buildings through the application of building performance simulation.”

“For one hundred and twenty one years ASHRAE has been a national and global leader in standards development that fulfills our mission of serving humanity and promoting a sustainable world. We commend the Department of Energy on its efforts to seek consensus on the issue of energy efficiency in the built environment.” says David Underwood, president of ASHRAE. “The 53,000 world-wide members of ASHRAE have diverse interests in how to approach Zero Energy Buildings but all share a desire to move this goal forward. This definition of Zero Energy Buildings will certainly become one of the tools used by the world-wide marketplace to move towards a sustainable future.”


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 54,000 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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<tr>
<th>Date</th>
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| September   | TD Garden Dehumidification System Tour | Chris Trent - Siemens  
Pat McDonald - Eversource  
Andrew or Jason - DNC  
David Trumble - Cannon Design  
Enis Pacavar - Sylvania | MCL@BRPLUSA.COM | Mark Leonard | TD Garden Boston, MA |
| Wednesday   |                            |         |             |                 |                         |
| September 9 |                            |         |             |                 |                         |
| October     | Towards ZEB (Zero energy buildings) in Europe and Application of Radiant Heating and Cooling Systems | Per Heiselberg  
Bjarne W. Olesen | MCL@BRPLUSA.COM | Mark Leonard | Metro Meeting Centers, Boston—101 Federal St. |
| Tuesday     | Tech Session: Passive Cooling with Increased Night Ventilation in Low Energy Buildings | Guilherme Carrilho da Graça , Annamaria Belleri  
& Per Heiselberg | MCL@BRPLUSA.COM | Mark Leonard | Membership and Student Promotion Night |
<p>| October 13  |                            |         |             |                 |                         |
| November    | Net zero commercial buildings – how to design and maintain indoor air quality | Bill Turner HLTURNER Group | <a href="mailto:MCL@BRPLUSA.COM">MCL@BRPLUSA.COM</a> | Mark Leonard | Embassy Suites, Waltham |
| Tuesday     | Tech Session: Changing Refrigerant | Steve Tafone | <a href="mailto:MCL@BRPLUSA.COM">MCL@BRPLUSA.COM</a> | Mark Leonard | Research Promotion &amp; Donor Recognition Night Joint Meeting with IAQA |
| November 10 |                            |         |             |                 |                         |
| December    | ASHRAE SPC-188 Legionellosis: Risk Management for Building Water Systems | Tom Watson | <a href="mailto:MCL@BRPLUSA.COM">MCL@BRPLUSA.COM</a> | Mark Leonard | Embassy Suites, Waltham |
| Tuesday     | Tech Session: Remarkable Long Term Performance in an Open Water Cooling System | Ed Block | <a href="mailto:MCL@BRPLUSA.COM">MCL@BRPLUSA.COM</a> | Mark Leonard | Joint Meeting with ASPE |
| December 8  |                            |         |             |                 |                         |
| January     | ASHRAE Society President | David Underwood | <a href="mailto:MCL@BRPLUSA.COM">MCL@BRPLUSA.COM</a> | Mark Leonard | Embassy Suites, Waltham |
| Tuesday     | Tech Session: Bench Marking/Building Energy Reporting and Disclosure Ordinance (BERDO) | Michelled Ruda, Bryan Donovan | <a href="mailto:MCL@BRPLUSA.COM">MCL@BRPLUSA.COM</a> | Mark Leonard | Past President’s &amp; History Night |
| January 19  |                            |         |             |                 |                         |
| February    | Infrastructure Resiliency Design in Healthcare. Post Superstorm Sandy | Steven Friedman | <a href="mailto:MCL@BRPLUSA.COM">MCL@BRPLUSA.COM</a> | Mark Leonard | Metro Meeting Centers, Boston—101 Federal St. |
| Tuesday     | Tech Session: TBD | TBD | <a href="mailto:MCL@BRPLUSA.COM">MCL@BRPLUSA.COM</a> | Mark Leonard | Membership Promotion, Research Promotion &amp; YEA Night |
| February 9  |                            |         |             |                 |                         |
| March       | Case Histories of Both Productive and Problematic Interactions Between Architectural Designs and HVAC | Lew Harriman | <a href="mailto:MCL@BRPLUSA.COM">MCL@BRPLUSA.COM</a> | Mark Leonard | Metro Meeting Centers, Boston—101 Federal St. |
| Tuesday     | Tech Session: GroundSource Case Study | George HU | <a href="mailto:MCL@BRPLUSA.COM">MCL@BRPLUSA.COM</a> | Mark Leonard | Joint Meeting with AEE |
| March 8, 2016 |                            |         |             |                 |                         |
| April       | Product Show | Jeff Schultz | <a href="mailto:MCL@BRPLUSA.COM">MCL@BRPLUSA.COM</a> | Bill Garvey | The Lantana |
| Tuesday     | Tech Session: TBD | N/A | <a href="mailto:MCL@BRPLUSA.COM">MCL@BRPLUSA.COM</a> | Bill Garvey | Student &amp; YEA Night |
| April 12, 2016 |                            |         |             |                 |                         |
| May         | Installation of Officers | William Tang | N/A | Event Committee/WT | TBD |
| Tuesday     |                            |         |             |                 |                         |
| May 10, 2016 |                            |         |             |                 |                         |
| June        | Golf Outing | William Garvey | N/A | Golf Committee | Halifax Country Club, Halifax, MA |
| Monday      |                            |         |             |                 |                         |
| June 6, 2016 |                            |         |             |                 |                         |</p>
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<th>Company</th>
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<tbody>
<tr>
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## 2015-2016 BOSTON CHAPTER OFFICERS
### CURRENT BOARD OF GOVERNORS & CHAIRPERSONS

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<td>Stacie Suh, Stebbins Duffy, Inc.</td>
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<td>Treasurer</td>
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<td>617-925-9255</td>
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### COMMITTEES

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<tr>
<th>Attendance</th>
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<tr>
<th>Chapter Program</th>
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<tr>
<td></td>
<td>617-925-8322</td>
<td>508-861-3741</td>
<td><a href="mailto:lance@andelmanlelek.com">lance@andelmanlelek.com</a></td>
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<th>Chapter Technology Transfer</th>
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| Golf Outing | William Garvey, RDK Engineers | The New Product Show & Energy Show 2016 | Sustainability |
|-------------|--------------------------------|--------------------------------------|-----------------
|             | 781-910-9576 | Jeffrey Schultz, DPS Engineering | Siobhan Carr, MIT |

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TEL: _____________________________________________________

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.

<table>
<thead>
<tr>
<th>INDIVIDUAL</th>
<th>CORPORATE</th>
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| Other: ____________ | Other: ____________ |

NorthEastAire

ASHRAE - BOSTON CHAPTER   www.ashraeboston.org

Deanna Adkison
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