March Meeting
Wednesday, March 4, 2015
Main Meeting:
Smart Grid Case Study: The Smart Energy Solutions Program
Tech Session:
Heat Pipes for Energy Recover & Dehumidification
1 PDH Available
Joint meeting with AEE
Please see page 3 for more information.

Meeting Manager:
Dan Diorio
dan.diorio@bc.edu

Where:
Embassy Suites, Waltham

Meal:
Caesar Salad
Chicken Picatta
Bourbon Chocolate Bread Pudding

Time:
5:15—6:00 Tech Session
5:30—6:15 Social/Registration
6:15—7:00 Dinner
7:00 – 8:00 Main Program

Cost:
ASHRAE Boston Members: $40
Non–Members / Walk-Ins: $50
ASHRAE Student Members: Free

Please register online whether you are pre-paying with credit card or PayPal or paying with cash or check at the meeting at www.ashraeboston.org. RSVP by 12:00 PM on Thursday, February 26th.

Please note during registration if you plan to attend the Tech Session.

Please notify Erin Popa if you would like at vegetarian meal.

Credit cards are no longer accepted at the meetings.

Contact Erin Popa if you would like a vegetarian meal.

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

Thank You
Once again, thank you to everyone that made it to the February meeting. While meeting day was a sunny one, it came a day after yet another major storm blasted our area. Given the remarkable turnout, my guess is that the meeting provided a chance for everyone to take a break from shoveling out and to exchange some winter horror stories during the social hour.

If you haven’t already received the Boston Chapter Member Survey in your email, please be on the lookout for it shortly. This survey, the first in recent Boston Chapter history, will provide vital information needed to ensure that our programs, events, and services continue to make membership not only worthwhile, but also essential. The survey is short. It contains only a handful of pointed and strategic questions.

Below, I’ve outlined the types of questions you will find within the survey and their importance.

Out of the gate, you will be asked to indicate the number of monthly meetings that you typically attend during the ASHRAE season (September through May). This seems like a throwaway question, but it’s actually quite crucial. The Boston Chapter has over 1,000 members, but a well-attended monthly meeting has only 100 registrants. We want to be able to categorize the responses based on the survey responder’s meeting attendance tendencies.

The technical content and the topics that are presented are determined in a variety of ways. Speakers looking to promote a certain technology come forward, asking to present. Members, in passing, suggest topics they would like to see—in turn we seek out speakers to present these topics. Once a year, we select from ASHRAE’s pool of nationally known ‘Distinguished Lecturers’. We attempt to provide PDH credits for all of our monthly meetings. You will be asked about your satisfaction with the technical content of our monthly meetings and to provide suggestions if you have them.

Aside from a traditional facility tour in September, the monthly meetings hosted by the Boston Chapter of ASHRAE take place at the Embassy Suites in Waltham. In addition to being in a location that provides a quick getaway to attendees living north, south, and west of Boston, the Embassy Suites has plenty of free parking and affordably priced dinner and conference space. Having said that, it has been brought to our attention that there are members that are unable to attend meetings due to the fact that the Waltham location is not accessible by public transportation and is too far from downtown Boston, where many work and/or live. There are several questions in this survey that address the logistics and the location of the meetings at the Embassy Suites in Waltham.

Finally, you will be asked to answer a couple of straightforward questions about social events, alternative meeting times, and our Tech Sessions.

As President of the Boston Chapter, I invite and strongly encourage you to take 5 minutes to complete the survey. Your participation will be greatly appreciated. Each and every response will be considered and valued as we continue to strive to be the best ASHRAE chapter in the Society and one that provides unmatched benefits to its members.

Please email me anytime at dan.diorio@bc.edu. Aside from the member survey, I am always open and available for your suggestions and comments. See you all at the March meeting.

Materials for the April newsletter are due by March 20, 2015. Please submit employment/want ads in .pdf, .doc or .jpg format. A company logo may also be included. Please send me any ideas you would like to share or include in next month’s issue. Please see the website for additional information www.ashraeboston.org.

For more information, please call or e-mail me at: (857) 221-5942, northeastaire@gmail.com
March Meeting Information

Main Program – Smart Grid Case Study: The Smart Energy Solutions Program

Main Program Information – Utilities are moving beyond the meter, presenting real time data to customers, and controlling equipment to reduce peak demand in load constrained areas. National Grid is conducting a smart grid pilot, Smart Energy Solutions which involves 15,000 meters with Distribution Automation, and Home Area Network (HAN) devices planned for 4,500 homes. The project encompasses varying rates that incentivize customers to reduce usage during peak events. An overview of the solution will be presented.

Meet the Speaker – Keith Miller is a Lead Project Manager with National Grid based in Waltham, MA. During his tenure at National Grid, Keith has managed R&D energy efficiency programs in Massachusetts and Rhode Island. He has been involved in the design, testing and installation of multiple Home Area Network (HAN) platforms. He has investigated demand response, reliability, and customer acceptance of HAN technologies. Most recently, Keith led the Home Energy Management (HEM) lab testing and managed the HAN deployment for the Smart Energy Solutions pilot in Worcester, MA.

Tech Session – Heat Pipes for Energy Recovery & Dehumidification

Tech Session Information - The presentation offers a review of how heat pipes work, for both heat recovery and dehumidification, and which applications can best utilize them. More specifically, the program will focus on advantages and disadvantages of heat pipes over alternative energy recovery devices and the affective use of wrap-around heat pipes. Materials and controls will also be discussed.

Tech Session Speaker Information - Drew Elsberry joined Heat Pipe Technology in 2014 as their Regional Sales Manager to cover the eastern half of North America, Puerto Rico and the Caribbean. He has a B.S. degree in Mechanical Engineering from Georgia Tech and over 13 years of HVAC experience as a sales engineer and regional sales manager. Mr. Elsberry is also a LEED AP and Past President of Florida West Coast’s ASHRAE Chapter.

ASHRAE BOSTON UPCOMING EVENTS

Visit www.ashraeboston.org/upcoming-events/announcements.html for more information.

January Meeting
When: January 13, 2015
Where: Embassy Suites, Waltham

February Meeting
When: February 10, 2015
Where: Embassy Suites, Waltham

March Meeting
When: March 4, 2015
Where: Embassy Suites, Waltham

April Meeting
When: April 14, 2015
Where: Embassy Suites, Waltham

BOSTON AREA UPCOMING EVENTS

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/
February Meeting Recap
By: Mark Leonard

The new home for our records is in safe storage!
The new 5’x10’ storage space is clean, dry, and heated to preserve things well for the future.
I would like to thank some very special people who helped our chapter in the moving and inventory process:
De’Jon Jackson, Timothy Dyett, Conor Rielly, Chris Hyatt, Mark Woodledge and Eric Smith.

The next step will follow society requests to scan all this information and make it available electronically. Further details will be announced as they become determined through meetings.

We had a wonderful opportunity to make a historical presentation at the February meeting. We hope those of you in attendance enjoyed the five minute walk through of our hundred plus years of achievements.

HISTORIAN COLUMN
By: Eric Edman

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COME JOIN THE ASHRAE BOSTON CHAPTER FOR OUR 50TH ANNUAL GOLF OUTING

WHEN: MONDAY, JUNE 1, 2015
WHERE: COUNTRY CLUB OF HALIFAX
HALIFAX, MA

We are appealing to your continued generosity for monetary contributions for the purpose of purchasing gifts to be awarded as golf and door prizes. In order to give the Prize Committee ample time to purchase these gifts, we would appreciate receiving your donations by May 22, 2015.

A donation of fifty dollars would be most welcome and more would be greatly appreciated! All donations will be publicly acknowledged by being published in the NorthEastAire newsletter.

We also welcome Hole Sponsorship. If you are interested in participating, please return the completed form (found in the following newsletter pages) with your contribution.

Very truly yours,
ASHRAE Golf Outing Committee
Bill Garvey, Chairman

ASHRAE Golf Outing Committee
c/o Bill Garvey
66 Morton St
Hanson, MA 02341
Email: wgarvey@rdkengineers.com
Monday, June 1, 2015

Location: Country Club of Halifax
Plymouth Street (Rte. 106)
Halifax, MA

Time: 1:00pm – 6:30pm  Golf Outing
6:30pm – 7:00pm  Social Half Hour
7:00pm  Dinner, Golf Prizes & Raffle

This is a reminder to all Members & Guests that Annual Golf Outing is approaching fast. The RSVP deadline is May 22, 2015 and we have foursomes available.

If you aren’t interested in golfing but would like to come for the dinner, we are taking RSVP’s for Dinner only.

There are Hole Sponsorships & Hole Contest Sponsorships available, please see the website for details.

If anyone attending the outing needs directions please email Bill Garvey at wgarvey@rdkengineers.com

For additional outing information please visit http://www.ashraeboston.org

**Meeting Fees**
$150.00 – Members who RSVP (playing golf)
$35.00 – Members who RSVP (Dinner only)

Day of Outing - No RSVP, No Golf

**Last Chance to RSVP for the golf outing is 12:00pm on Friday, May 22, 2015**

**Last Chance to RSVP for dinner only is 12:00pm on Friday, May 29, 2015**

Please only RSVP to Bill Garvey at wgarvey@rdkengineers.com

Upon receiving RSVP, a confirmation email will be sent back to confirm your reservation. If you have not received a confirmation email, you will need to attempt the RSVP again.

Thank you
HOLE SPONSORSHIPS

($200 EACH)
HOLE SPONSORSHIPS WIL INCLUDE A SIGN ON A HOLE

CONTEST HOLES:
($500 EACH)

CONTEST HOLE SPONSORSHIPS:
1. LONGEST DRIVE
2. CLOSEST TO THE PIN
3. STRAIGHTEST DRIVE

HOLE SPONSORSHIP ______________________________________________________

CONTEST HOLE SPONSORSHIP ______________________________________________

INDIVIDUAL SPONSORSHIP ________________________________________________

MAKE CHECKS PAYABLE TO A.S.H.R.A.E. BOSTON CHAPTER
Mail to: ASHARE Golf Outing
        C/o Bill Garvey
        66 Morton St.
        Hanson, MA 02341

NAME: __________________________________________________________________
ADDRESS: _______________________________________________________________

PHONE: __________________________
E-MAIL: _________________________
RESEARCH PROMOTION

By: Teri Shannon

Our Chapter’s RP goal this year is $21,800. Currently we are ahead of where we were last year at this time, but still only about 36% of our goal. We need your assistance in reaching our goal, so please consider a donation to ASHRAE RP.

Remember that 100% of the money donated to RP goes to Research!

As a reminder, ASHRAE is qualified as 501(c)3 and all contributions are tax deductible. Any amount is appreciated; for donors who give $100 or more, you will be listed in the annual ASHRAE Honor Roll of Investors publication. You can donate online at www.ashrae.org/contribute, or contact myself.

Donate Now!

Please fill out the form in this newsletter and mail it to me – we look forward to your Honor Roll level donation of $100. You can go to the ASHRAE Boston website at www.ashraeboston.org. Click on the Donation Form under Research & Promotion. You can also donate online at www.ashrae.org/contribute.

Mailing Address: ASHRAE Boston Chapter, C/o Teri Shannon, PO Box 576, W. Kennebunk, ME 04094

Please donate today help us reach our goal.

Donor Recognition

I would like to give a big thank you to the following members for making donations to RP in January:

Mr. Kenneth Crooks and Mr. Steven Rosen

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 April Newsletter: March 20, 2015

Any questions, please contact Stephanie Lafontaine, Newsletter Editor at 857-221-5942 or northeastaire@gmail.com

Gary Gardiner
HVAC Team Leader
Direct Recruiters, Inc.
(440) 996-0057
ggardiner@directrecruiters.com
www.directrecruiters.com

Manufacturer of commercial aftermarket HVAC continuous capacity modulation systems. Train, teach, present, communicate benefits of system implementation to engineers, contractors, end-user/owners, distributors. Travel up to 20%. Technical HVAC refrigeration and/or energy solutions sales or training experience required. Smaller company = great recognition. Fun place to work! Be a bigger fish in a smaller pond. Generous healthcare program, PTO, 401(k) w/match. Be in a new career opportunity in 4-6 weeks! 440.996.0057 Call me!
STUDENT ACTIVITIES

By: Dan Diorio

Hello YEA members! Thanks to everyone who came out for our Cornhole tournament at Baseball Tavern mid-February. It was a great time with great prizes! Any events you think would be a good fit for YEA? Don’t be afraid to speak up.

The next YEA Leadership weekend will be this spring in San Diego, CA March 27-29, 2015. I highly encourage anyone interested to apply, it is a great experience. There may still be a last minute opportunity to attend, so please contact me ASAP if interested! https://www.ashrae.org/membership--conferences/young-engineers-in-ashrae/yea-leadership-weekend

Looking to improve your HVAC technical skills? Applications are currently open for the HVAC Design Essentials Training Scholarship. YEA offers one full scholarship for attendance to the HVAC Design: Level I – Essentials training. Application deadline for the June 15-17 training in Atlanta is April 20. https://www.ashrae.org/membership--conferences/yea-scholarship-for-hvac-design-essentials-workshop

Questions? You can contact me (Justin) at jmole@cannondesign.com

Ok kids, the student attendance at the meetings have been down over the last couple of months. Let’s try and finish the year strong – there are only two technical meetings remaining on the schedule. Remember, student members attend the meetings and eat for free!

For those student members that belong to a Student Branch of ASHRAE, it’s time to show some appreciation for your Student Branch Advisor. They are the ones that tie it all together and make your student chapter membership so beneficial. Consider nominating your Student Branch Advisor for the Student Branch Advisor of the Year Award. The application is available on the Student Zone tab on the ASHRAE Society website. Technically, the nominees are submitted by me, the Student Activities Chair, so please let me know if you would like to consider your advisor for this award and we can begin the application process. Nominations are due by June 12.

Also on the ASHRAE Student Zone website, you will find information on the ASHRAE Society Scholarship Program. ASHRAE offers many different scholarships for students. Scholarships are awarded based on specific criteria and made available for the academic year following the application deadline beginning with the fall semester. There are scholarships available with applications deadlines of May 1. Don’t miss out on an opportunity to help pay some of those college bills!

Last month, your student chapter advisors received an invitation to an activity that I have been in the process of planning. I’ve recently completed a large and complicated mechanical project on campus that I believe you would be interested in seeing. We designed and built a brand new boiler plant into a dormitory that had previously been fed its heating hot water, underground, from an adjacent building. Now this building has its own stand-alone heating plant, with brand new high-efficiency condensing boilers. The concern of aging underground piping has gone away. The activity, which will include a short presentation on the project followed by a tour of the new plant, can be scheduled at your convenience. We’re flexible over here!

The Student Activities Committee needs help. I’d like to add two members to the committee and mold someone into taking over as the Chair next year. 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.
MEMBERSHIP PROMOTION

By: Dan Carington

As your Membership Promotion (MP) chair, please allow me to extend my sincere gratitude to all of the members who help keep ASHRAE strong! I would like to acknowledge three of those people for having helped me: Teri Shannon, last year’s Chapter President, Dan Diorio, current Chapter President and Mark Persechini, who recently came back to ASHRAE after a brief absence. They have been instrumental in helping me reach out to you, the members.

I would also like to welcome our new members since 12/1/2014:

Mr. Edward Dullea, Mr. Joseph Bliss, Mr. Jack Nelson, Mr. Don Lane, Mr. Daniel Weintraub, Mr. Aaron Valentine, Mr. Ryan P. Donovan, Mr. Tom Cafferkey, Mr. Marcos A Devers, PE, Ms. Cheryl Ann Ray, Ms. Lauren Chin, Mr. Paul E Degan, Mr. Luis Fernando Useche, Mr. Ray RF Chen, Mr. Hugh W O’Connor, PE, and Mr. Mark Phillip Persechini

I want to take a moment to welcome you to the ASHRAE Boston Chapter! It is a pleasure to have you on board; I hope to get the opportunity to meet you at an upcoming meeting.

Our second of two Boston Chapter Membership Promotion nights occurred at last month’s meeting. We had a few non-members in attendance and hope they will plan on becoming members. We encourage everyone to attend and invite a potential member(s) to see how vital ASHRAE is to our industry.

I was recently asked, “Why do we have to pay Chapter dues”? Although Society membership is a prerequisite to local membership, you are NOT obligated to join your local Boston Chapter. Your local dues are only $40.00, and you can pay them at the same time you pay your Society dues.

Your membership in the Boston Chapter helps support our local efforts in keeping you informed of local activities through newsletters, seminars and meetings regarding up-to-date programs, speakers and the latest technology in the area. Positive aspects of local involvement are being able to network with other industry professionals and maintaining your professional education by earning Continuing Education Units (CEUs) or Professional Development Hours (PDHs). By being involved, you’ll be a stronger contributor on the job and enhance your chances for career growth.

If you have any questions, please feel free to contact me at 617-925-8236 during the day, or via email at dpc@brplusa.com. If you find that you have not paid your dues, you can go to the ASHRAE website and pay your dues online at www.ashrae.org. Should you have any questions regarding this effort, do not hesitate to contact ASHRAE headquarters at 1-800-5ASHRAE.

Remember that PAID members have the greatest impact on the local Chapter’s financial bottom line.
BOSTON CHAPTER - BEHIND THE SCENES
By: Mike Gilroy

Every month, prior to the Main Program, the Boston Chapter of ASHRAE’s Board of Governors meet to discuss Chapter business. This article, based on the Secretary Meeting Minutes, shall serve as an informative summary for members as to what is happening behind the scenes of the Boston Chapter. Please feel free to contact me with any questions or for additional information.

Meeting Date: February 10, 2015

Review of January Meeting Minutes

Each Board of Governors meeting begins with a review and eventual vote to approve the previous month’s meeting minutes. Any items that required follow-up are updated and closed or are determined to be carried forward once again. Meeting minutes from January were approved at the February BOG meeting.

2014/2015 Schedule

Openings in the schedule and opportunities to improve the year’s schedule were discussed. Previous openings in the March and April tech sessions have been resolved. Approval from our joint meeting partners, AEE in March will allow a heat pipe technical session. In April, an energy code training session held at National Grid in Waltham, MA will take the place of a technical session. The training session will highlight mechanical sections of the code and take place from 2pm-5pm on the night of the April meeting. Plans are in the works for an April brewery tour at a local brewery.

Additional Miscellaneous Items Discussed

The following miscellaneous items were briefly discussed:

- **Meeting Registration Software** – Erin Popa confirmed Vertical Response has made Attendance Chair’s duties more manageable and, despite working through some kinks, the software should be continued to be used by the chapter.
- **Boston Chapter Member Survey** – A survey has been created and has entered the final review process. The survey will be sent to all Chapter members by the end of the month.
- **Local Brewery Tour** – A recent development has occurred with Night Shift Brewery in Everett, MA. We’re hoping we can finalize the details in time for an April tour and networking night.
- **Nick Johnson Benefit Raffle** - The raffle to support Nick Johnson and help offset some of his medical costs has been extended until March. See other sections of this newsletter for more information on the raffle and how to purchase tickets.
- **Boston Chapter Hall of Fame** – Applications for the Boston ASHRAE Chapter Hall of Fame have been made available. March 6th is the deadline for applications/nominations.

Presidential Award of Excellence

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<th>Chapter Members</th>
<th>Membership Promotion Points</th>
<th>Student Activities Points</th>
<th>Research Promotion Points</th>
<th>Historical Points</th>
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<th>Chapter Technology Transfer Points</th>
<th>Grassroots Government Affairs Points</th>
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Federal Activities

President Obama to Send FY 2016 Budget Request to Congress

On Monday, February 2, President Barack Obama issued his budget request to Congress for fiscal year 2016, which will lay out both general policy priorities as well as proposed funding for specific federal agency activities and programs.

The President’s budget request expects to unleash a torrent of debate on Capitol Hill and among the private sector, because both the House and Senate are controlled by Republicans, so there is little likelihood that the President’s preferred funding levels will be enacted. That said, the budget request will act as a powerful force in framing the debate, and serve as a platform for announced and potential Presidential candidates to discuss their visions for the country’s future.

Analyses of the President’s budget request will be contained in future editions of the Update. The President’s budget request for fiscal year 2016 will be available on Monday, February 2 at http://www.whitehouse.gov/omb/budget.

DOE Seeks Public Comment on Second Quadrennial Technology Review Framing Document

The U.S. Department of Energy (DOE) has issued a request for public comment on the Framing Document for the second Quadrennial Technology Review (QTR). The 2015 QTR will build upon the 2011 QTR, addressing technological changes that have taken place and focusing U.S. energy challenges. The 2015 QTR will also discuss research and development opportunities and strategies in a number of areas, including: increasing the efficiency of building systems and technologies, modernizing electric power systems, manufacturing efficiency, and advancing clean transportation.

Comments are due on or before February 20, 2015. Full information is available at https://www.federalregister.gov/articles/2015/01/21/2015-00893/quadrennial-technology-review-framing-document

The Framing Document can be found at (PDF) http://www.energy.gov/sites/prod/files/2015/01/f19/DOEQTR2015FramingDocument.pdf

DOE Issues Final Rule on Energy Conservation Standards for Automatic Commercial Ice Makers

The U.S. Department of Energy has issued a final rule on energy conservation standards for automatic commercial ice makers, which discusses ASHRAE Standard 29 Methods of Testing Automatic Ice Makers. Full information is available at https://www.federalregister.gov/articles/2015/01/28/2015-00326/energy-conservation-program-energy-conservation-standards-for-automatic-commercial-ice-makers

GGAC Regional and Chapter Activities

ASHRAE Merging Advocacy and Grassroots Government Activities Committees

ASHRAE took additional steps to finalize the merger of the Advocacy and Grassroots Government Activities Committee at the 2015 Winter Meeting in Chicago. This merger, which will be effective July 1, 2015, will bring all advocacy and government affairs under one umbrella throughout the Society. The new committee, to be named the Grassroots Government Advocacy Committee, will continue to include one Regional Vice Chair from each of the 14 ASHRAE Regions. Additionally, the merged committee will be chaired by a Presidential Member and include the Chairs of the three standing ASHRAE Councils (Publishing and Education, Technical, and Members Councils) as members.

Continued on next page...
National Engineers Week Scheduled for Feb. 22-28, 2015

National Engineers Week (EWeek) has been scheduled for February 22-28, 2015. Founded in 1951, EWeek is dedicated to ensuring a diverse and well-educated future engineering workforce by increasing understanding of, and interest in, engineering and technology careers. EWeek is a formal coalition of more than 70 engineering, education and cultural societies, and more than 50 corporations and government agencies dedicated to raising public awareness of engineers' positive contributions to quality of life. EWeek urges recognition among parents, teachers and students of the importance of a technical education and a high level of math, science and technology literacy, and motivates youth to pursue engineering careers in order to provide a diverse and vigorous engineering workforce.

ASHRAE once again encourages its Chapters and members to promote EWeek by obtaining proclamations from federal, state and local governments recognizing this annual event.

Additional information on EWeek is available at http://www.discovere.org/our-programs/engineers-week.

Your Boston GGAC committee welcomes your suggestions for ASHRAE Boston EWeek events or applicants for the Government Activities Award! Please contact Christine Reinders (creinders@cannondesign.com), Stacie Suh (stacie@stebbinsduffy.com) or Steve Rosen (srosen@vanderweil.com).

University Receives $3.2M to Develop Localized Heating and Cooling Systems

The Energy Department’s Advanced Research Projects Agency-Energy’s (ARPA-E) Delivering Efficient Local Thermal Amenities (DELTA) program will develop localized heating and cooling systems and devices to expand temperature ranges within buildings. The program plans to provide $30 million to support 11 project teams in developing technologies that can regulate temperatures focused on a building’s occupants and not the overall building. This localization of thermal management will enable buildings to operate in wider temperature ranges while still ensuring occupant comfort, which would dramatically reduce the building’s energy consumption and associated emissions.

Syracuse University, led by principal investigator Professor H. Ezzat Khalifa, along with partners United Technologies Research Center, Air Innovations, Bush Technical LLC and Cornell University has been awarded $3.2 million from DOE/ARPA-E, plus substantial cash and in-kind contributions from Syracuse University, the partners, ESD (Empire State Development) and NYSERDA (New York State Energy Research and Development Authority).

Syracuse University will develop a near-range micro-environmental control system transforming the way office buildings are thermally conditioned to improve occupant comfort. The system leverages a high-efficiency micro-scroll compressor in a micro vapor compression system, whose evaporator is embedded in a phase-change material. This material will store the cooling produced by the micro vapor compression system at night, releasing it as a cool breeze to make occupants more comfortable during the day. This micro-environmental control system could save more than 15 percent of the energy provided for heating and cooling.

The Syracuse Center of Excellence in Environmental and Energy systems played a vital role in the success of this proposal and will be a major contributor to the execution of this award.

“These new projects highlight the Department of Energy’s commitment to developing a broad range of disruptive technologies to ensure a secure, affordable and sustainable American energy future,” said U.S. Energy Secretary Ernest Moniz. “Investments in innovative methane detection and thermal management technologies demonstrate ARPA-E’s role in catalyzing energy research and development by leveraging our top scientists and engineers from across the country.”
WEBMASTER’S NOTES
By: Steve Rosen

We hope you are enjoying the ASHRAE Boston website!

Not everything is on our Website - which is why we also ave our very own ASHRAE Boston Library!

Starting in February 2015, we need a new home to house our collection of reference books, periodicals, Standards, historical items and more!

Although we would enjoy a space similar to the photo, a simple standard sized office with a secured door and a simple ‘ASHRAE Boston Library’ sign would be wonderful!

If your firm or your Town Library could accommodate this request we will be very grateful and honor them at our monthly meeting! Please send me or Eric Edman eme@brplusa.com your offer and we can help you with any additional information!

Continuing Education Certificates (PDHs)
By: Steve Bosland

The Boston Chapter of ASHRAE has been providing continuing education certificates for select chapter meetings for approximately seven years. Many of our professional engineers require these certificates to maintain licenses in states requiring continuing education. The certificates are being issued through The Practicing Institute of Engineering, Inc. (PIE) out of Albany, New York. All of the certificate meetings/programs are reviewed for content and applicability to the engineering profession and normally provide either 1 or 1.5 Professional Development Hours (PDHs). The number of hours provided is dependent on the length and content of the program.

For the Boston Chapter to obtain these certificates, we need to send in information on the presenter and the program being presented a month in advance to provide time for the program to be reviewed and certified by PIE. On the day that the program is presented there is a sign-in sheet that has to be signed by each person attending to verify they are in attendance. The sign-in sheet is then sent to PIE and they maintain records of the program attendance and the issuance of the certificate. The sign-in sheet is normally at the registration desk, if it is not there please ask one of the Boston ASHRAE officers or myself to let you know where to sign.
Society news
ASHRAE, REHVA Jointly Publish Guide to Chilled Beam Systems

ATLANTA – Guidance on designing chilled-beam systems is contained in a new book from ASHRAE and the Federation of European Heating, Ventilation and Air-Conditioning Associations (REHVA). The “Active and Passive Beam Application Design Guide” is the result of collaboration by worldwide experts to give system designers a current, authoritative guide on successfully applying active and passive beam technology.

Building on REHVA’s previously published Chilled Beam Application Guidebook, this new guide provides up-to-date tools and advice for designing, commissioning and operating chilled-beam systems to achieve a determined indoor climate and includes examples of active and passive beam calculations and selections.

Active and passive beam systems are an energy-efficient solution for spaces that require individual zone control and where the internal moisture loads are moderate.

“Active and passive beam systems provide good thermal comfort and energy and space saving advantages, and the operation of such systems is simple, with low maintenance requirements,” co-editor John Woollett said. “In a building where the goal is a low energy usage index, beams can be an excellent choice of indoor climate product.”

Although they are often referred to as “chilled” beams, in many cases active beams can be used for both heating and cooling the space. Active and passive beams are room air recirculation devices that transfer sensible heat to and from the space using water. In addition, conditioned primary air is ducted to active beams. This primary air must satisfy the ventilation and latent requirements of the space and drive the induction of room air through the beam’s coil. In the case of passive beams, this primary air is delivered to the space through a decoupled ventilation system. Active and passive beams may be integrated with acoustic ceilings or independently mounted.

Woollett noted that chilled beams have specific applications and work well in commercial office buildings, schools, hospital patient rooms, laboratories and hotels. He said such systems are common in Scandinavian countries where they are a standard choice of indoor climate delivery in a variety of different applications.

The book provides information on the basics of operation but also background from engineers developing the beam technology with manufacturers. The main focus is comfort beam application in their passive and active variants.

The cost of the “Active and Passive Beam Application Design Guide” is $62 ($53, ASHRAE members). To order, contact ASHRAE Customer Contact Center at 1-800-527-4723 (United States and Canada) or 404-636-8400 (worldwide), fax 678-539-2129, or visit www.ashrae.org/bookstore.

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 50,000 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.
ASHRAE Certification Programs

BEMP Practice Exam Now Available
ASHRAE has launched a practice exam for the Building Energy Modeling Professional (BEMP) certification. The practice exam is designed to be similar in content and difficulty to the actual certification exam. It is a low-cost, online tool for limited self-assessment with a score report overview of performance at the end of the exam. Practice exams are already in place for the BEAP, CPMP and HFDP certifications. Practice exams for the HBDP and OPMP certifications are under development and should be launched later this year.

Visit www.ashrae.org/BEMP to learn more about the BEMP practice exam.
Visit www.ashrae.org/certification to learn more about ASHRAE certifications.

New Publications from ASHRAE

ASHRAE, a leader in building information technology, develops publications that impact every facet of the environment, both indoors and out.

Data Center Design and Operation – ASHRAE Datacom Series CD 4th Ed.
This CD-ROM presents the full text of all eleven ASHRAE Datacom Series publications and Standard 127-2012 in fully searchable and printable PDF format. Authored by ASHRAE Technical Committee 9.9, the Datacom Series provides comprehensive treatment of data center cooling, energy efficiency, and related subjects.

$289 ($246 ASHRAE Member) / CD / 2014

ASHRAE Reference Offers Design Guidance on Healthcare HVAC Systems
The second edition of HVAC Design Manual for Hospitals and Clinics provides in-depth design recommendations based on best practices from consulting and hospital engineers, with a focus on presenting what’s different about healthcare HVAC systems.

$129 ($109 ASHRAE Member) / 312 pages / 2013

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<thead>
<tr>
<th>Date</th>
<th>Main Meeting/ Tech Session</th>
<th>Speaker</th>
<th>PDH Credits</th>
<th>Meeting Manager</th>
<th>Location/ Special Night</th>
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<td><strong>September</strong></td>
<td><strong>Main Meeting/ Tech Session</strong></td>
<td><strong>Speaker</strong></td>
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<td><strong>Location/ Special Night</strong></td>
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<tr>
<td>Tuesday, September 16, 2014</td>
<td>Tour—Conte Forum AC Upgrades &amp; Expansion</td>
<td>Dan Diorio &amp; Dave Trumble</td>
<td>N/A</td>
<td>Dan Diorio</td>
<td>Boston College, Conte Forum, Chestnut Hill</td>
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<tr>
<td>October</td>
<td>Retrofitting Mass Walls—Interior Retrofits vs. Exterior Retrofits</td>
<td>Joseph Lstiburek</td>
<td>TBD</td>
<td>Teri Shannon</td>
<td>Embassy Suites, Waltham</td>
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<tr>
<td>Tuesday October 14, 2014</td>
<td>IBPSA—Energy Modeling, Best Practices</td>
<td>TBD</td>
<td><a href="mailto:tshannon@dac-hvac.com">tshannon@dac-hvac.com</a></td>
<td>HOF Induction, Student &amp; Membership Promotion Night</td>
<td></td>
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<tr>
<td>November</td>
<td>Embedded Tube Radiant Cooling</td>
<td>Devin Abellon</td>
<td>TBD</td>
<td>Event Committee</td>
<td>Embassy Suites, Waltham</td>
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<tr>
<td>Tuesday, November 11, 2014</td>
<td>Maximizing the Benefits of Chilled Beam Systems</td>
<td>Mike Woosley</td>
<td>TBD</td>
<td>Event Committee</td>
<td>Research Promotion &amp; Donor Recognition Night</td>
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<td>December</td>
<td>Mechanical Couplings Science</td>
<td>TBD</td>
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<td>Tuesday December 9, 2014</td>
<td>TBD</td>
<td>TBD</td>
<td>Event Committee</td>
<td>Joint Meeting with ASPE</td>
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<tr>
<td>January</td>
<td>ASHRAE Society President</td>
<td>Thomas Phoenix</td>
<td>TBD</td>
<td>Darcy Carbone</td>
<td>Embassy Suites, Waltham</td>
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<tr>
<td>Tuesday January 13, 2015</td>
<td>Cleaning and Restoration of HVAC Systems</td>
<td>Michael Vinick</td>
<td><a href="mailto:dcarbone@stebbinsduffy.com">dcarbone@stebbinsduffy.com</a></td>
<td>Past President’s &amp; History Night</td>
<td></td>
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<tr>
<td>February</td>
<td>Air to Air Energy Recovery - Beyond the Basics</td>
<td>Rick McGinley</td>
<td>TBD</td>
<td>Teri Shannon</td>
<td>Embassy Suites, Waltham</td>
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<tr>
<td>Tuesday February 10, 2015</td>
<td>DOAS &amp; VRK Work-Arounds in eQuest</td>
<td>Eric Studer</td>
<td><a href="mailto:tshannon@dac-hvac.com">tshannon@dac-hvac.com</a></td>
<td>Membership Promotion, Research Promotion &amp; YEA Night</td>
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<td>March</td>
<td>Smart Grid Case study: The Smart Energy Solution Program</td>
<td>Keith Miller</td>
<td>TBD</td>
<td>Dan Diorio</td>
<td>Embassy Suites, Waltham</td>
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<tr>
<td>Wednesday March 4, 2015</td>
<td>Heat Pipes for Energy Recovery &amp; Dehumidification</td>
<td>Drew Elsberry</td>
<td>1.0</td>
<td><a href="mailto:dan.diorio@bc.edu">dan.diorio@bc.edu</a></td>
<td>Joint Meeting with AEE</td>
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<td>April</td>
<td>High Performance with Building Commissioning</td>
<td>Mike Eardley</td>
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<td>Tuesday April 14, 2015</td>
<td>Air Flow Measuring</td>
<td>TBD</td>
<td>TBD</td>
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<td>Joint Meeting with BSA</td>
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<tr>
<td>May</td>
<td>Installation of Officers</td>
<td>N/A</td>
<td>N/A</td>
<td>Stacie Suh</td>
<td>TBD</td>
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<td>Tuesday May 12, 2015</td>
<td>Golf Outing</td>
<td>N/A</td>
<td>Bill Garvey</td>
<td>Halifax Country Club, Halifax, MA</td>
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<td>June</td>
<td>Golf Outing</td>
<td>N/A</td>
<td>N/A</td>
<td>Bill Garvey</td>
<td>Halifax Country Club, Halifax, MA</td>
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<tr>
<td>Monday June 1, 2015</td>
<td>Golf Outing</td>
<td>N/A</td>
<td>Bill Garvey</td>
<td>Research Promotion</td>
<td></td>
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</tbody>
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BOSTON CHAPTER OFFICERS, BOARD OF GOVERNORS & CHAIRPERSONS

OFFICERS
President
Daniel Diorio
Boston College
617-552-8772
dan.diorio@bc.edu

President-Elect
Stacie Suh
Stebbins Duffy, Inc.
781-258-1002
Stacie@stebbinsduffy.com

Vice President/Treasurer
William Tang
BR+A
617-254-0016
wkt@brplusa.com

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

Chapter Technology Transfer
Mike Gilroy
BR+A
617-925-9255
mpg@brplusa.com

CRC Alternate
Stacie Suh
Stebbins Duffy, Inc.
781-258-1002
Stacie@stebbinsduffy.com

CRC Delegate
Daniel Diorio
Boston College
617-552-8772
dan.diorio@bc.edu

Golf Outing
William Garvey
RDK Engineers
857-221-5965
wgarvey@rdkengineers.com

Chapter Program
Daniel Diorio
Boston College
617-552-8772
dan.diorio@bc.edu

Chapter Technology Transfer
Mike Gilroy
BR+A
617-925-9255
mpg@brplusa.com

COMMITTEES
Grassroots Government Activities
Steven Rosen
Vanderweil Engineers
617-956-4218
srosen@vanderweil.com

Historian
Eric Edman
BR+A
617-925-8325
eme@brplusa.com

Honors & Awards
Darcy Carbone
Stebbins Duffy, Inc.
617-957-2567
dcarbone@stebbinsduffy.com

Membership Promotion
Dan Carington
BR+A
617-925-8236
dpc@brplusa.com

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

Research Promotion
Teri Shannon
DAC Sales
207-985-0873
tshannon@dac-hvac.com

NorthEastAire
Stephanie Lafontaine
RDK Engineers
857-221-5942
slafontaine@rdkengineers.com

The New Product Show & Energy Show 2016
Jeffrey Schultz
EYP Architecture & Engineering
617-385-9894
jschultz@eypae.com

Professional Development
Steve Bosland
EYP Architecture & Engineering
617-305-9831
sbosland@eypae.com

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

Refrigeration
Steven Tafone
Suffolk Construction
978-774-1057
stafone@suffolkconstruction.com

Student Activities
Daniel Diorio
Boston College
617-552-8772
dan.diorio@bc.edu

Sustainability
Jim Armstrong
Siemens Industry, Inc.
781-774-8360
jarmstrong@siemens.com

Siobhan Carr
MIT
617-324-7268
siobhanc@mit.edu

Website
Steven Rosen
Vanderweil Engineers
617-956-4218
srosen@vanderweil.com

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

Justin Molé
Canon Design
617-517-6272
jmole@cannondesign.com

BOARD OF GOVERNORS
2013-2016
Siobhan Carr
MIT
617-324-7268
siobhanc@mit.edu

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

Stephen Nicholas
Air Industries
978-682-9993
snicholas@airinds.com

2012 - 2015
Darcy Carbone
Stebbins Duffy, Inc.
617-957-2567
dcarbone@stebbinsduffy.com

Pat Duffy
BR+A
pjd@brplusa.com
617-925-8253

Jim Liston
BuroHappold
james.liston@burohappold.com
617-606-9120

Jeffrey H. Schultz
EYP Architecture & Engineering
617-385-9894
jschultz@eypae.com
ASHRAE RESEARCH

ASHRAE Boston Chapter Contributors

Allan E Ames   John A Iacopucci   Air Distribution Corporation
David H Blum    Steven L Rosen    Boston Air Products LLC
Steven C Bosland, PE William J Schlageter, Jr Boston ASHRAE Chapter
Henry P Breen, Jr, PE Majid Seghatoleslami      BR+A Consulting Engineers
Darcy A Carbone Teri L Shannon   Buckley Associates - Braintree
John F Coffey, Jr Gregory W Shenstone, PE  Dura Systems Barriers, Inc.
Kenneth W Crooks Stacie Suh       Frank I Rounds Company
Daniel P Diorio Steven J Tafone     HTS Engineering Ltd
David A DeMoura, PE William K Tang  J S Fleming Associates Inc.
Gary M Elovitz   Jeffrey Zajac   Kirschner Associates Inc.
William J Garvey
Michael P Gilroy

CONTACT TERI SHANNON NOW! at 207-985-0873 or tshannon@dac-hvac.com

Mail Check (Payable to “ASHRAE Research”) to:
ASHRAE RESEARCH
DAC Sales
c/o Teri Shannon
PO Box 576
W. Kennebunk, ME 04094

Name:_____________________________________________________________________________________________
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Stephanie Lafontaine
RDK Engineers
70 Fargo Street
Suite 800
Boston, MA 02210
ADDRESS SERVICE REQUESTED