Installation of Officers Dinner

Tuesday, May 8, 2012
Steve Rosen (Regional RVC) will be installing the officers & BOG members this year.

Where:
City Bar
The Westin Waterfront
425 Summer St
Boston, MA

When:
5:00 - 6:00 p.m. - Social Hour
6:00 - 7:00 p.m.
Dinner & Installation of Officers

Cost:
$45 Members w/ RSVP
$55 Non-Members
Hor d’oeuvres will be served.
Cash Bar
RSVP by May 4, 2012
Wkt@brplusa.com

Buffet Dinner
Antipasto
Grilled Veggie Antipasto
Flatbread Pizza /Pasta Station
Three cheese tortellini w/ Alfredo
Penn w/ tomato basil
Banana Bread Pudding


Jeremy Russell Memorial Golf Open– May 27, 2012 : Page 12
ASHRAE Boston Chapter 47th Annual GOLF Outing: Page 4–6
ASHRAE CRC/Gala 2012 Cocktail Hour Sponsorship : Page 17

Special Thanks to All Sponsors for
Region I Chapter Regional Conference and 100th Anniversary Gala for the Boston Chapter

Gold Sponsors
BR+A Consulting Engineers
Buckley Associates
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GMP Lab Products
RDK Engineers
R.G.Vanderwell Engineers
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PRESIDENT’S MESSAGE

By Pat Duffy

Our April Product Show was a hit! The show took place at The Lantana's in Randolph, MA on April 10th and it was a sold out show. The Product Show seminars were well attended, and all were PDH accredited. The Product Show itself had 600+ in attendance throughout the day, giving many engineers a great opportunity to see what the field has to offer, and everyone seemed to thoroughly enjoy the show, and we're glad to see that even in today's economy, we are able to round everyone up to showcase what our industry has to offer.

Our next meeting is the May Installation of Officers. This is where we get an opportunity to present awards to the volunteers for their hard work and efforts and celebrate as we welcome the 2012-2013 season volunteers & leaders into the mix. Also during the May Installation of Officers, we are planning on announcing the winners of the 3rd installment of The Boston Chapter Hall of Fame. We will present the winners with their plaques at our October 2010 meeting, giving the recipients their proper due. The result of the Installation of Officers means that I will be handing off the torch to Steve Nicholas. I have no doubt that he will maintain the excellent status of the Boston Chapter. We will surely continue to provide an excellent educational program for all of our members throughout the 2012-2013 season.

As my tenure as President of the Boston Chapter comes to a close, I realize that it has certainly gone by faster than I thought it would. It has been an honor to serve as President of one of the finest ASHRAE Chapters in the nation. But with all leaders in any industry, it comes with help from great people. I'd like to take an opportunity to thank the Chapter Officers, Steve Nicholas, Teri Shannon, and Dan Diorio, and Bill Garvey along with everyone else who volunteered their time to the Boston Chapter for helping out with everything along the way. We couldn't have had a successful season such as this past one if it weren't for their hard work and dedication.

See you at the Installation!

Pat Duffy, President

Editor’s Note

By Stacie Suh

Happy Mother’s Day!

Please submit employment / want ads for June by May 11, 2012 in Word format. A company logo (in .gif or .jpg format) can be included. Any ideas you would like to share, please email me.

Steve Nicholas/Air Industries (ASHRAE Boston President Elect) has been approved as voting member of ASHRAE SSPC-52.2 “Method of Testing General Ventilation Air Cleaning Devices.

Contact Steve for more information at snicholas@airinds.com.

For more information, please call or e-mail me at 781-258-1002 or Stacie@stebbinsduffy.com.

2012 Product Guide

The updated edition of the Product Guide directory has been posted on the ASHRAE Boston website at www.ashraeboston.org.

The Product Guide includes a cross referenced list of local engineers, representatives, wholesalers, contractors and affiliated organizations engaged in the HVAC field.

Please look out for the email from our committee next year for more information on electronic 2013 Roster & Product. Any questions, please contact Stacie Suh at stacie@stebbinsduffy.com and Teri Shannon at tshannon@dac-hvac.com.
MEETING RECAP

The New Product & Energy Show 2012

By: Pat Duffy

The April meeting was our Biennial Product Show, and it was a huge success. The Lantana's in Randolph, MA hosted our show on April 10th, and not only it was a sold out show, but we also incorporated trailers this year with proceeds sent to ASHRAE Research Promotion. This provided engineers another method of viewing the latest and greatest products. There were plenty of attendees and everyone seemed to enjoy themselves. The Product Show also held four educational seminars, and they all were well attended. In addition to that, they were all PDH accredited.

There were over 600 people in attendance at the Product Show itself throughout the day, meaning that we were able to get a good collection of engineers to venture out of their offices and site visits to see what the field has to offer. This was great news of course for the many vendors/manufacturers, because it was a great opportunity to showcase their products to the specifying engineers!

The general consensus from everyone was that the show was a success, and that members thoroughly enjoyed the show. We were thrilled to see that even in today's economy, we are able to round everyone up to showcase what our industry has to offer. Can the Product Show 2014 top 2012? We shall see!

The Officers and Board of Directors of the Boston Chapter of ASHRAE would like to thank all of the following vendors who supported the 2012 Product & Energy Show with their participation. We are looking forward to see you again in 2014 Product & Energy Show. Thank you!

Jeffrey Schultz / Product & energy Show 2012 Chairperson

Air Distribution Corporation
Air Industries, Inc.
Alfieri-Proctor Associates, Inc.
American Plant Maintenance
Armaceff
Atlantic Air Products
Auburn Manufacturing, Inc.
Belimo Air Controls
Boston Air Products, LLC.
Buckley Associates, Inc.
Building Systems Integrators
Carrier Corporation
Combustion Heat & Power, Inc.
Control Consultants, Inc. / Tridium
Control Technologies, Inc.
Conservation solutions Corp.
DAC, Sales
David Gooding, Inc.
Distributor Corp. of N.E.
Emerson-Swan, Inc.
ENE System, Inc.
Equipment Direct Sales, Inc.

FIA, Inc.
Filter Sales & Service, Inc.
Fluid Transfer Products, Inc
FMC Technologies
Frank J. Rounds Company
Green Technology Associates, Inc.
GMP Lab Products
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HTS Engineering, Inc.
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Kirschner Associates, Inc.
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M.A. Selmon Co., Inc.
Martin Engineering
Mecanology, Inc.
N.E. Combustion Products, Inc.
Noble Associates, Inc.
Northeast Air Solutions, Inc.
Northeast Sheet Metal
Peak Sales Solutions, LLC.
Process & Energy Measurements Corp.

Pendleton Associates, Inc.
Pond Technical Sales
RMI Regan Marjollet, Inc.
R.T. Forbes Company, Inc
RTS Thermal
Sanuvox Technologies, Inc.
Siemens Industrial, Inc.
S.J. Ginns Associates
Skinner Associates, Inc.
Stebbins-Duffy, Inc
Sweeney Rogers Geraghty
Tecogen, Inc.
Trumbull Campbell Associates
Trane
Tunstall Corp.
Urell, Inc.
Viega LLC.
Victaulic W
WEIL-McLAIN
W.A. O’Leary & Sons.
COME JOIN ASHRAE BOSTON CHAPTER FOR 47TH ANNUAL GOLF OUTING

WHEN:    MONDAY JUNE 4, 2012
WHERE:    COUNTRY CLUB AT 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 25, 2012.

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 bulletin.

We also welcome Hole Sponsorship. If you are interested in participating, please return the completed form (found on page 6 of the newsletter) with your contribution.

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

A.S.H.R.A.E. Golf Outing Committee
C/o Bill Garvey
66 Morton St
Hanson, MA 02341
Email: wgarv@aol.com
47th ANNUAL ASHRAE
BOSTON CHAPTER GOLF OUTING

Date: MONDAY, June 4, 2012

Place: COUNTRY CLUB OF HALIFAX, Halifax, Massachusetts
POQUOY BROOK GOLF COURSE, Lakeville, Massachusetts

Who: ASHRAE members and guests, by reservation only. Tickets will be sold on a first-come, first-serve basis, and all reservations MUST BE MADE BY MAY 25, 2012.

Price: $150.00—NO TICKET SALES AT THE DOOR
This includes greens fees, electric carts, cheese table for cocktail hour, and five course dinner. Prizes for everyone plus golf prizes.

Halifax
We will have a shot gun start. Two foursomes (total of 8) will drive their carts out to their pre-assigned tee (on Tee Time: Par 3 tees, only one foursome will tee off). Eighteen foursomes will tee off at the same time, 1:00 PM sharp. It is important that you be there ahead of time. The format this year has been changed to a Bramble Format. A Bramble starts off like a Scramble where each team member tees off and the best drive is selected. However, in a Bramble, after the best drive is selected, all team members from that point on will play their own ball, stroke-play style, until each team member has holed out. Each team member must use (2) of the drives during course play.

Poquoy Brook: Because we sell out every year, any overflow will play at Poquoy Brook in Lakeville. This will be either shot gun or tee times, depending on how many foursomes are registered by May 11th. If tee times, they would be 9:30 AM to 12:45 PM.

We need to know the foursomes as soon as possible and recommend that you call immediately for reservations, even if you do not have all the names of those in your group. Contact Bill Garvey (Cell: 781-9100-9576) or Email: wgarv@aol.com). IMPORTANT: Need the sizes of those in your foursome.

Dinner Only: A separate meal ticket may be purchased for those who do not play golf. Cost is $35.00.

Note: All courses require that we follow course rules: Proper dress code—No jeans, tank tops, bathing suits. No metal spikes. You are responsible for the golf carts you drive.

Lunch: Dutch treat from regular luncheon menu. ARRIVE EARLY.

Happy Hour: 6:30 PM to 7:00 PM—Dutch treat in Club House.

Dinner: 7:00 PM - Complete roast beef dinner, beverage and dessert.

Prizes: Prizes will be given out at check-in time for each foursome, and we want everyone to have a good time! Please support our need for donations.

Make checks payable to A.S.H.R.A.E. Boston Chapter
Mail to: ASHRAE Golf Outing
C/o Bill Garvey
66 Morton St
Hanson, MA 02341

Enclosed is check for $________ for _______ Golf Outing, reservations, including dinner @ $150.00 each.

_______ Dinner only reservations @ $35.00 each

Name: ____________________________________________  Address: _________________________________________

Phone: ________________________       Fax: __________________________    E-Mail: _________________________________

Shirt sizes: Men/Quantity: S ____   M ____   L ____   XL ____   XXL ____   XXXL ____

Women/Quantity: S ____   M ____   L ____   XL ____   XXL ____   XXXL ____
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: __________________________________________________________________
Save the Date
ASHRAE Boston Chapter 100th Year Anniversary Gala

SAVE the DATE
ASHRAE’s 100-Year Anniversary Gala

saturday
8/25 2012
6pm-midnight

Contact Information:
Robert Persechini
rpersechini@rdkengineers.com
Darcy Carbone
dcarbone@stebbinsduffy.com

Marriott Boston Hotel
more information to follow
Historian Column
By John Morrill

Who remembers life before high tech?
Most of us do not remember life before even that dinosaur, the fax machine.

Blueprints were actually blue. FTP was not file transfer protocol but “free to park”. CAD was the word for “an ill bred man”. It was a time when everyone clustered around the city because they could walk or take the MTA to sales and engineering meetings.
It was the day of the “three martini” lunches at places such as Jimmy’s Harborside, now a cluster of chichi restaurants and the place to be at night.

Vendors would go to the Dodge plan room in the Prudential building to “take off” the projects. Their pricing would have to be prepared days in advance to get the estimates in the mail. Yes, “snail mail” was the only way to transmit written information.

There was no such thing as coordination drawings, Engineers and Architects actually communicated to be sure that everything fit above the ceiling.

Phone calls would be made at the telephone booth, notebooks were to write in, work pads were used to summarize labor on projects, computers were located in Washington DC for civil defense.
Were those the “good old days”?

Let me google that.

CTTC - TEGA Article
by Paul Hanbury

ASHRAE Provides Suggestions to EIA for Improving the 2012 CBECS

The U.S. Energy Information Administration (EIA) is moving full steam ahead with the 2012 edition of the Commercial Buildings Energy Consumption Survey (CBECS) – a national survey of U.S. commercial building energy consumption, characteristics, and expenditures. The first step in rolling out the 2012 CBECS is designing the questionnaire for the Survey.

In an effort to improve the Survey, EIA reached out to ASHRAE and several other building community stakeholders, and asked us to submit suggestions for improving the questionnaire. ASHRAE’s comments can be found at http://ow.ly/9P7CX.

EIA is now collecting comments from interested individuals and groups on the 2012 CBECS. A formal request for comments will soon appear in the Federal Register, however interested individuals and groups are encouraged to email Joelle Michaels, CBECS Survey Manager (Joelle.Michaels@eia.gov), and request additional information prior to the announcement to give yourself more time to respond.

In-depth information on the 2012 CBECS and prior Survey editions can be found at www.eia.gov/emeu/cbecs.
Research Promotion

By Bill Garvey

I would like to thank all of the Organizations that have sponsored the 2012 CRC & 100th Gala event. There sponsorship is helping us reach our research promotion goal. There are table tents at every meeting showing the list of current sponsors, keep an eye out!!

We are currently at $16,112 in RP donations, thank you to all that have given to date. We are doing great, but still have a little ways to go in meeting our Society goal of $20,280, so if you haven’t made a donation please think of doing so. I will be making more phone calls in the coming months to help reach our society goal.

Contribution envelopes will be available at every meeting to make it easier for you to help out. As always there is a link at the Chapter website (www.ashraeboston.org) and you can pay online.

Did you know that 100% of the money donated to Research Promotion actually goes towards Research? In fact our Region receives over $4 toward research projects and grants for every $1 donated to ASHRAE Research Promotion.

Mission: To improve the quality of life and to answer tomorrow's questions through research TODAY.

ASHRAE is qualified 501(c)3 and all contributions are tax deductible.

Please fill out the form in this newsletter and mail it to me with whatever contribution you can make or you can go to the ASHRAE Boston website at www.ashraeboston.org.

Mailing Address: ASHRAE Boston Chapter c/o Bill Garvey 66 Morton St. Hanson, MA 02341

Click on the Donation Form under Research & Promotion, or go there directly with this link: http://www.ashraeboston.org/researchpromo/donation-form.html

Credit card payments can also be made when via Society's ASHRAE website via this link: https://www.ashrae.org/aboutus/resource_promotion.asp

A big THANK YOU to Members and Companies for Making Donations to RP!

SY 2011 – 2012 April Donors

Andelman & Lelek Engineering, Inc.
Austin Service & Sales Company, Inc.
Daniel Cashman
Dave Dears
John Dieckmann
Stephen DiGiacomo, PE
Fluid Transfer Products, Inc.
INGENIA Technologies, Inc.
Interstate HVAC Controls
Joe Hale
Ross Trethewey

Check out page 29 for previous donors.
Student Activities

By Dan Diorio

Now that the 2012 New Product & Energy Show is in the books, we have hit the unofficial end of the 2011/2012 ASHRAE season. I’d like to thank all of the students and faculty advisors for their participation throughout the season. Like last year, each monthly meeting from September through April had several student members in attendance and always a faculty advisor or two. I’m confident that they monthly meetings and presentations continue to provide students with good learning and industry networking opportunities.

Speaking of the New Product & Energy Show, a very special thank you has to go out to the Student Chapter at Massasoit. John Fitzgerald, Massasoit Student Chapter Advisor, rallied several students to help with the hard-labor associated with the set-up of the show. The chapter also presented a display table at the show, highlighting current student work.

The final scheduled ‘meeting’ for the 2011/2012 ASHRAE season is the Installation of Officers on May 8. There is no technical presentation at this meeting; however, it presents another opportunity for students to socialize with Boston Chapter members while next season’s Officers and Board of Governor members are introduced. This newsletter contains more information about the Installation of Officers dinner. Students are welcomed guests at this event!

Thank you once again for another successful year for the Student Activities Committee. I’m looking forward to picking up right where we left off when the new season gets rolling in the fall!

Please drop me a line at daniel.diorio.2@bc.edu if you’re interested in helping out with the Student Activities Committee or to suggest ideas for student activities.

Membership Promotion

By Teri Shannon

New Members: At this time, I’d like to welcome the newest members to ASHRAE – be sure to say hi to these folks at future meetings!

Members: Scott Burkhardt, Steve Chambers, Walter Henry, Mark O’Leary, Robert Poirier

Associate Members: Terence Boland, John Cleveland, Christopher Davidson, Alex Fetterman, Zachary Jarvis, Stephen Lafaille, David Venturoso

2012 ASHRAE Handbooks: The 2012 ASHRAE Handbooks (both print & CD) will be mailed out around May 28. Members can expect to receive them approx. 3 – 4 weeks from date of shipment. The list of recipients for these handbooks will be run on April 30. Please verify that the address you have on file with Society is the best address to mail this to you. Log on at www.ashrae.org to update your information as necessary.

SmartStart Program: Attention Student Members! Are you getting ready to graduate? Would you like to stay involved with ASHRAE to receive their many great benefits? The SmartStart program is just for you! ASHRAE has implemented the SmartStart program to help student members transition from a student membership to a regular membership. It’s the best way for ASHRAE student members to continue to receive the many member benefits of ASHRAE after finishing college. For more information or to apply, go to www.ashrae.org/smartstart, or contact me at tshannon@dac-hvac.com.

How does it work?
The first year out of college annual membership is still only $20. Then it is only $50 for the second year and $50 for the third year. You save up to $420 and get three years of membership for $120. ($20-$50-$50). When you transfer from Student Membership to Regular Membership you gain access to the following essential ASHRAE member benefits:

- The ASHRAE Handbook — the indispensable, industry-wide resource for all HVAC&R professionals
- ASHRAE Journal — this monthly resource is the most trusted technical magazine in the HVAC&R community
- High Performing Buildings — the quarterly magazine for innovation in building technology design and operation (electronic version only)
- ASHRAE Insights — the monthly newsletter of key Society news and activities
- HVAC Industry News — a weekly news resource keeping ASHRAE members abreast of the latest industry news and information
- Access to more than 300 of the industry’s leading technical publications
- Access to online education, satellite broadcasts and professional education classes
- Online training

Cheers, Teri
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: April 10, 2012

The following items were discussed at the brief Board of Governors meeting that took place during the New Product & Energy Show and subsequent email correspondence:

1. **Research Promotion** – The Boston Chapter has nearly reached its 2011/2012 Research Promotion fundraising goal of $20,280. Less than $3,000 is needed to reach goal.

2. **Treasury Report** – Bill Garvey, Chapter Treasurer, provided balances for all chapter accounts.

3. **2012 Region 1 CRC & Anniversary Gala** – The committee is in the middle of an ad campaign for sponsorship of the Pre-Function gathering/cocktail. Additionally, all committee members are actively pursuing contractors, consultants, and vendors for purchase of a 10-seat table for the 100th Anniversary Gala.

4. **May Installation of 2012/2013 Officers** - The incoming Boston Chapter President, Steve Nicholas, has narrowed the location for the event down to Jerry Remy’s Sports Bar and City Bar at the Westin Hotel. It was determined that a decision would need to be made by April 20.

5. **Boston Chapter Hall of Fame** – Various items were discussed amongst the Board members regarding the process by which HOF candidates are nominated and inducted each year.
Jeremy Russell Memorial Golf Open
Atlantic Country Club Plymouth, MA
Monday, May 7, 2012

Attention golfers!! Join with me in supporting the first Jeremy Russell Memorial golf outing. This should be a great event and will be a good tune up for the ASHRAE outing. Fill out the form below and we will see you there.

For more information on sponsorship opportunities please contact Brian Libby at 781-726-3540/Brianlibby24@yahoo.com and Josh Russell at 781-858-4867/jrussell@suffolkconstruction.com
**ASHRAE BOSTON**

UPCOMING EVENTS

Visit [www.ashraeboston.org/index.html](http://www.ashraeboston.org/index.html) for more information.

**Annual Golf Outing**
When: June 4, 2012
Where: Halifax Country Clubs
Halifax, MA
FMI: wgarv@aol.com

**ASHRAE’s 2012 Annual Conference**
When: June 23–27, 2012
Where: San Antonio, TX
FMI: [www.ashrae.org/sanantonio](http://www.ashrae.org/sanantonio)

**ASHRAE Region I CRC & Gala Event**
When: August 23–25, 2012
Where: Boston Marriott, Boston
FMI: [www.ashraeboston.org/index.html](http://www.ashraeboston.org/index.html)

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**Sustainable Performance Institute**

UPCOMING EVENTS

Visit [http://sustainable-performance.org/events](http://sustainable-performance.org/events) for more information. All event location is at 38 Chauncy St, 7th FL.
Boston, MA 02111

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**AFE Chapter 74-Worcester Area-Central MA**

UPCOMING EVENTS

Visit [http://afe.org/chaptersnew/index.cfm?chapterIndex=20](http://afe.org/chaptersnew/index.cfm?chapterIndex=20) for more information.

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**USGBC MASSACHUSETTS CHAPTER**

UPCOMING EVENTS

Visit [www.usgbcma.org](http://www.usgbcma.org) for more information.

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**IFMA BOSTON CHAPTER**

UPCOMING EVENTS

Visit [http://www.ifmaboston.org/events.html](http://www.ifmaboston.org/events.html) for more information.

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**AEE NEW ENGLAND CHAPTER**

UPCOMING EVENTS

Visit [http://aeenewengland.org/future_events.html](http://aeenewengland.org/future_events.html) for more information.

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**IBPSA BOSTON CHAPTER**

UPCOMING EVENTS


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**Webmaster’s Notes**

By Steve Rosen

The ASHRAE Boston website [www.ASHRAEBoston.org](http://www.ASHRAEBoston.org) was awarded the highest honor at the CRC 2011 held this year in New York City, the Webstation of Excellence, for the 2nd year in a row. Many thanks to our website designer Donna Harrington of Avant-garde Graphics, Inc. We will be keeping the site current with information; Check back often!

On the Employment page (under the Chapter Updates section) not only will you see job opportunities, but we are now accepting resumes to post for free from any ASHRAE member in good standing looking for work!

Let employers find you on the ASHRAE Boston website! We will continue this year to post past meeting presentations for our members to review, and our Chapter is continuing our efforts to reduce waste by eliminating printed handouts at our meetings. As always you will also be able to link to following:

- Chapter officers and committee chairs contact information (who's who)
- Chapter monthly meeting info (when, what, where)
- Region I website, and view the Chapter history
- Sign up for the e-mailed newsletter
- ASHRAE membership information
- Current chapter newsletter, past newsletters,
- Upcoming events and future meetings
- Other functional Chapter committee pages;
  - Membership, RP, SA, Programs, CTT.
- Most recent and past BOG/Meeting minutes
- Look soon for a pre-registration payment online system!
Sustainability Column

By Jim Armstrong

The ASHRAE Boston product show was a breath of fresh air. When vendors are spending time touting three basic principles of sustainability we had to ask for 10 years ago.

- Their products efficiency when compared to ASHRAE 90.1
- The durability and lifecycle cost of their product over traditional methods
- How critical it is to measure component energy and not just building energy.

These three points show me that sustainability is a mainstay in our industry. It shows that the products are now responding to the demands for lifecycle costing and performance delivery.

When I first go into the HVAC design side of our business I saw many project teams focus on first costs. I have enjoyed watching the swing of an industry to lifecycle costing and performance based specifications. It shows that design and operations have come together.

The filter manufacturers have created a shift in the way we look at IAQ. Designers are now looking at MERV ratings and net static pressure drop. This can change the way a building performs as well as increase space indoor air quality. Saving energy by reducing the static pressure a filter creates in the air stream and increasing air quality by increasing the surface area of the filter medium. This sounds simple but it requires proper design in order to get both. Many designers have left this to the air handler suppliers but are now working with the filter manufacturers as part of their base design. This is all part of the life cycle costing analysis. It also allows for a creative approach to how a designer meet the requirements of ASHRAE 62.1 by working both the products air filtration with control of the volume of air. The simple AHU is becoming an integrated approach to life cycle costing and that breath of fresh air.

If you have any subjects you are looking for us to address reach out to any of our members or directly to Jim Armstrong @ jarmstrong@siemens.com. Our objective is to educate our membership in sustainability. Thinking with the end in mind and balancing the systems to meet the loads of the buildings.

YEA

By Stacie Suh

Hello YEA members!

Our 2nd YEA event was held at 3 Blackfan circle in Boston on March 28, 2012. Steve Tafone from Suffolk Construction Company gave the members a tour of the Center for Life Science chiller plant which has four 1,650 ton chillers (6,600 tons total) set up in a primary-secondary pumping arrangement and includes four plate & frame heat exchanger for free cooling during the cooler months. The boiler plant consist of 4 low pressure boilers at 27,600 lbs/hr each (110,400 lbs/hr total) and two high pressure steam boilers at 12,075 lbs/hr each (24,150 lbs/hr total). The building also has four 1,500 kw (6,000 kwh total) emergency generators.

Thank you Steve for taking the time to educate the YEA members. All the members had a lot of great questions and it was educational experience for everyone.

On May 8, 2012, Installation of officiers will be held in City Bar at The Westin Waterfront in Boston, MA. Please email William Tang at wkt@brplusa.com to sign up for the event by May 4, 2012.

We will be hosting YEA events throughout the year and we would really appreciate your inputs. Please send me your ideas! YEA events are great way to network with other engineers in this industry and also have a lot of fun.

If you are on face book, check out www.facebook.com/ashraeYEA#!/ashraeYEA. Be sure to join Young Engineers in ASHRAE (YEA) on Facebook. Please contact with any questions and concerns at stacie@stebbinsduffy.com / siobhan@andelmanlelek.com
Thank you to those that have sent pictures.

We are looking for companies, people, places and things that have formed our engineering community for the past 100 years. ASHRAE Boston Chapter would like to showcase them in our monthly newsletters and website. We look forward to your submission of projects and pictures to be displayed in Call for Information section of the newsletter.

Please email the project information to Stacie@stebbinsduffy.com.

First Blues Hills Regional Technical Institute Class that received a 1978 Applied Associate Degree

<table>
<thead>
<tr>
<th>Name</th>
<th>Last known town</th>
</tr>
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<tbody>
<tr>
<td>01. Bob Arey</td>
<td>Randolph</td>
</tr>
<tr>
<td>02. Bob Azzola</td>
<td>Randolph</td>
</tr>
<tr>
<td>03. Michael Brown</td>
<td>Randolph</td>
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<tr>
<td>04. Richard Cirillo</td>
<td>Norwood</td>
</tr>
<tr>
<td>05. Steven Donahue</td>
<td>Randolph</td>
</tr>
<tr>
<td>06. Larry Haite</td>
<td>Holbrook</td>
</tr>
<tr>
<td>07. Mark Helinski</td>
<td>Braintree</td>
</tr>
<tr>
<td>08. Tim Kiley</td>
<td>Braintree</td>
</tr>
<tr>
<td>09. Leo McNeil, Jr.</td>
<td>Canton</td>
</tr>
<tr>
<td>10. Bob Meola</td>
<td>Braintree</td>
</tr>
<tr>
<td>11. Michael O’Gara</td>
<td>Randolph</td>
</tr>
<tr>
<td>12. Bob Podesta</td>
<td>Randolph</td>
</tr>
<tr>
<td>13. Dennis Reid</td>
<td>Randolph</td>
</tr>
<tr>
<td>14. Paul Steidinger</td>
<td>Norwood</td>
</tr>
<tr>
<td>15. Bob Persechini</td>
<td>Avon</td>
</tr>
<tr>
<td>16. Russell Clinton</td>
<td>Norwood</td>
</tr>
</tbody>
</table>

Tim O’Leary III from Building Doctor LLC is organizing a Boston area reunion on Friday, June 15, 2012 thirty-five years after the graduation. He is looking to find these students so please contact Tim with current contact info. Contact Tim at via email buildingdoctor@usa.net or Tel: (617) 825-1648/ Cell: (617) 947-0607.

Attention to all ASHRAE Boston Chapter Members:

No–Show Policy

Each member is responsible to RSVP cancellation on or before the deadline. If member RSVP after deadline, he or she will be charged for the meeting fee. If you have any questions, please contact William Tang at wkt@brplusa.com.
ASHRAE REGION I CONFERENCE AND GALA

On August 23rd -25th, 2012, the Boston Chapter will be hosting the ASHRAE Region I Chapter Regional Conference (CRC). This meeting coincides with the BOSTON CHAPTER’S 100TH ANNIVERSARY CELEBRATION GALA, which will be held on Saturday, August 25, 2012 directly after the Region I Conference. Both exciting events will be held at the Marriott Copley Place in downtown Boston.

Region I is comprised of 15 Chapters that are located throughout New England, New York, and New Jersey. At the conference, there will be over 150 active ASHRAE members along with their families to enjoy all that the City of Boston has to offer. We are expecting over 700 people at the must-attend Gala! Partygoers from local engineering firms, contractors, manufacturers, facility and building owners, and other professional societies will join in the celebration!

PLEASE JOIN US AT THE GALA FOR PLENTY OF FOOD, BEVERAGES, AND LIVE ENTERTAINMENT ALL THE WAY FROM LAS VEGAS!

Now is the time for your firm to become a proud sponsor of this event!

Our growing list of Advertisement Sponsors includes:

- Armacell
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- Building Smart Software
- E. M. Duggan
- Erland Construction
- Filter Sales & Service
- FMC Technologies
- Fitzemeyer & Tocci Assoc.
- Green Technology Assoc.
- Harry Grotsky & Co.
- HTS Engineering
- Kirschner Assoc.
- Pinnacle Piping
- S.J. Ginns Corp.
- Thomas G. Gallagher, Inc
- Tunstall Corporation
- W.J. Goode Corp
- William O’Leary

Make your firm be the next name to appear on this list! It’s a great way to advertise your firm and support a cause that only happens once every 100 years!
Program Advertisement and Ticket Form

<table>
<thead>
<tr>
<th>Company:</th>
<th>Contact Name:</th>
<th>Full Address:</th>
<th>Email, Phone &amp; Fax:</th>
</tr>
</thead>
</table>

## Become a Cocktail Hour Sponsor
- [ ] Cocktail Hour Sponsor $3,000

### Advertisements and Tickets
- [ ] Table of 10 with Program Book Premier Ad $2,000
- [ ] Table of 10 with Program Book Half Page Ad $1,500
- [ ] Table of 10 with Program Book Quarter Page Ad $1,250
- [ ] Table of 10 $1,000
- [ ] Program Book Premier Ad $1,000
- [ ] Program Book Half Page Ad $500
- [ ] Program Book Quarter Page $250
- [ ] Individual Seat $100

If you are interested in cocktail hour sponsorships, program advertisements or tickets, please contact Darcy, Bill, or Bob and they can help finalize the corporate information and final ad setup. We look forward to hearing from you.

- **Darcy Carbone** – CRC 2012 General Chair
  - Contact #: (617) 957-2567
  - E-mail: dcarbone@stebbinsduffy.com

- **Bill Garvey** – CRC 2012 General Co-Chair
  - Contact #: (781) 910-9576
  - E-mail: wgarv@aol.com

- **Bob Persechini** – 100th Anniversary Gala General Chair
  - Contact #: (617) 345-9885
  - E-mail: rpersechini@rdkengineers.com

### Cocktail Hour Sponsorship (Limit 5)
- Banner with company name and logo in the cocktail reception atrium
- (10) Ten Tickets to the Boston Chapter 100th Anniversary Gala Event

### Credit Card Form*

<table>
<thead>
<tr>
<th>Type of Card</th>
<th>Name on Credit Card (please print)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MasterCard</td>
<td></td>
</tr>
<tr>
<td>Visa</td>
<td></td>
</tr>
<tr>
<td>Discover</td>
<td></td>
</tr>
</tbody>
</table>

Card Number (no spaces or dashes)

Expiration Date

Security Code (on back of card 3 digits)

Signature & Date

---

* Please email this completed form to wgarv@aol.com or call Bill Garvey with this information.
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Trane EarthWise™ System design addresses the full continuum of expectations to deliver cooling that offers the best all-around benefits. It can reduce first cost, lower operating costs, and is sustainable - maintaining consistent temperature and humidity levels more reliably throughout the life of the system than conventional designs.

EarthWise Systems are delivering proven energy efficiencies in climates all over the world.

---

An EarthWise Systems savings as compared to conventional systems:

1Trane EarthWise Systems: Waterside: 12°F AT across evaporator, 15°F AT across condenser, high-efficiency chiller. Airlside: 40°F F design supply-air temperature, 75°F zone cooling setpoint (due to lower indoor RH delivery by lower supply air-temperatures, per ASHRAE Gold Air System Design Guide defining indoor comfort), supply-air-temperature reset (from 45°F up to 60°F) at mild outdoor conditions, comparative enthalpy economizer, parallel fan-powered VAV terminals, optimized supply duct static pressure control (fan pressure optimization).

Conventional Systems: Waterside: 10°F AT across evaporator, 10°F AT across condenser, minimum 90.3 chiller efficiency. Airlside: 55°F design supply-air temperature, 75°F zone cooling setpoint, fixed-dry-bulb economizer, VAV with reheat terminals, fixed supply duct static pressure control.
Founded in 1950, Vanderwell Engineers is a 350-person multi-disciplinary consulting engineering firm specializing in mechanical, electrical, and plumbing systems for buildings, central heating and chiller plants, power generation, and transmission and distribution (T&D) design. Over 70 of our projects have achieved LEED® Certification and many of other projects are actively pursuing certification.

Cannon Design joins in celebrating the 100th Anniversary of the Boston ASHRAE Chapter

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The larger the cooling load, the more critical it is to design, operate and maintain a central chilled water plant holistically. Central Plant Optimization™ from Johnson Controls ensures the chiller plant achieves its high-performance, high-efficiency potential.

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Our firm is organized in Multi-Disciplined "Team Studios", each of which is committed to providing dedicated attention and personalized service for specific market sectors and/or clients. Each of these Engineering Teams is led by a Principal, and is comprised of a capable team of MEP/FP/T engineers who are accustomed to working with one another on a daily basis. As a firm that continues to grow, we genuinely believe that it is our unique organization, our "companies within a company" structure, that helps foster a small, company service atmosphere resulting in increased client satisfaction.

RDK has many exciting MEP design projects in house. Visit our website and take a look at the great projects we are working on. If you’re looking for a growth opportunity and a great place to work, then RDK may be right for you!

Our benefits package includes:
- straight time overtime pay for salaried employees
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- Long term care

For more information, visit and/or apply via our website at www.rdkengineers.com
EOE M/F/D/V
No agencies please
Mitsubishi’s Variable Refrigerant Flow Products stand out as the clear leader in what has become the highest growth segment of the HVAC Industry. We offer a full line of the industry’s highest efficiency air and water cooled VRF products including the ability to simultaneously heat and cool and high heating capabilities down to -10°F.

For more information please visit us at
http://extranet.mehvac.com/UploadedFiles/vrfmodule/player.html

We are looking for experienced and motivated Sales Engineers to join our highly successful Commercial Sales Teams in the greater Boston and Metro NYC markets. Interested candidates should forward their resume to Susan Pickett at spickett@hvacc.mea.com

Engineered Solutions, Inc. (ESI), established in 1988, is a dynamic HVAC/Energy consulting firm with high-profile clients in the greater Boston area. We are conveniently located in the Boston suburb of Natick. We provide high level engineering services such as technical energy analysis and audits, mechanical systems infrastructure evaluation and re-design, central chiller and boiler plant design, and building automation system design to a variety of clients including hospitals, high-rise office buildings, telecommunication facilities, educational institutions, museums, manufacturing facilities, and laboratories.

ESI offers its employees a competitive benefits package including generous company contribution to health/dental plans, participation and company matching contribution to our 401K plan, disability and life insurance, tuition reimbursement, flex-time, and an excellent performance based bonus program. Due to our recent growth, we have an exciting opportunity for an HVAC Project Engineer.

The HVAC Engineer will be instrumental to the organization in providing high quality HVAC/Energy analysis and design for our various projects. This includes but is not limited to conducting field work at our client sites, performing engineering analysis and system design, inspecting construction sites, writing reports and interacting with our customers. For the right candidate, this is a unique opportunity for career growth and large project experience in a small company environment.

Qualified candidates will have the following experience:

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- Proficiency with energy modeling software, spreadsheet analysis and utility custom energy analysis,
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Ability to travel locally for field work at client sites.

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For more information about ESI, please visit our website at www.engsolutions.com.

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SOCIETY NEWS

Public Input Sought on Alternative to

ASHRAE Standard 62.1 Ventilation Rate Procedure Proposed

ATLANTA – A proposed change to the ventilation rate procedure in ASHRAE’s indoor air quality standard is open for review after changes were made based on public input last year.


The ventilation rate procedure provides a prescriptive method for determining minimum ventilation requirements. It accounts for pollutant sources from both the building and its occupants, and allows the designer to account for the efficiency of different ventilation systems when delivering outdoor air to the breathing zone.

Proposed addendum f was first released for public comment in September 2011 after some users of Standard 62.1 indicated the ventilation rate procedure was “too complicated,” according to Standard 62.1 chair Roger Hedrick. He said the 62.1 committee agreed that application of the multiple-zone recirculating system equations described in Section 6.2.5 and Appendix A can be complex.

“When designing multiple zone recirculating ventilation systems, Table 6-3 provides a default value of Ventilation Efficiency (Ev) based on the largest value of the zone primary (Zp) outdoor air fraction, for all the zones served by the system,” he said. “However, if Max (Zp) exceeds 0.55, then Appendix A must be used to design the system outdoor airflow. Addendum f attempts to simplify the design process by providing a simplified default approach for cases with Max (Zp) greater than 0.55.”

The earlier review draft set the default value of the zone primary outdoor air fraction based on a default minimum zone primary airflow set as 30 percent of the zone design primary airflow.

“The public review comments pointed out that this formulation did not work mathematically under certain conditions,” Hedrick said. “This new public review version instead simply allows Ev to be set to 0.6, unless a higher value is provided by Table 6-3 or by using Appendix A. Use of a relatively low value of Ev will result in higher outdoor airflow rates, but using the default will simplify the system design process.”

Also open for review is addendum i, which would add limits for low humidity. Recent studies have shown that excessively low humidity may result in unacceptable indoor air quality. The Standard 62.1 committee is interested in the appropriateness of the relative humidity limit and the climate zones where the requirement applies. The addendum is open for an advisory public review, meaning comments received allow for constructive input and need not be resolved or formally acted on by the project committee.

In addition to addenda f and i, three additional addenda are open for public review from March 23 until April 22. For more information, visit www.ashrae.org/publicreviews. They are:

• Addendum h –Table 6-1, includes ventilation rates for “Sports arena (play area)” and “Gym, stadium (play area).” Both space types have ventilation rates based on floor area only, the per person rate is zero. Users of the standard have expressed interest in applying demand controlled ventilation to these space types, which is effectively prohibited by the lack of a per person component to the ventilation rate. This proposed addendum replaces both of these space types with “Gym, Sports Arena (play area)”, with Rp = 20 cfm/person and Ra = 0.06 cfm/ft² and assigns this new space type with an air class of 2 rather than class 1 from the first publication public review version.

• Addendum k adds an exception to the recirculation limits on Class 4 exhaust airstreams from laboratory hoods which would allow use of heat wheel energy recovery in some cases. The exception defines several criteria which the airstream must meet before such heat recovery can be used, and the heat recovery system must limit recirculation airflow to less than 0.5 percent of the outdoor air intake flow.

• Addendum l adds a refrigerated warehouse space type to Table 6-1, providing revised ventilation rates for these spaces. These rates include a “People Outdoor Air Rate, Rp” which will require ventilation during periods of expected occupancy, but do not include an “Area Outdoor Air Rate, Ra” which will allow the ventilation rate to be zero for refrigerated warehouses with no occupants.

In addition, addendum j is open for public review from March 23 until May 7. The proposed addendum would add requirements to the Indoor Air Quality Procedure (IAQP) for determining minimum ventilation rates which require consideration of the combined effects of multiple contaminants of concern on individual organ systems. This “additive” effect is already implicit in the Ventilation Rate Procedure. This proposed change is intended to improve the IAQP by requiring consideration of these additive effects that are well established in the literature for many organ systems, according to Hedrick.

For Release: March 27, 2012 Contact: Jodi Scott / Public Relations /678-539-1140/ jscott@ashrae.org
### Boston ASHRAE
#### 2011 - 2012 Meeting Schedule

<table>
<thead>
<tr>
<th>Date</th>
<th>Main Program</th>
<th>Speaker</th>
<th>PDH Credits</th>
<th>Meeting Manager</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>October</strong></td>
<td></td>
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<tr>
<td>Tuesday,</td>
<td>It is time for Third Party TAB</td>
<td>Howie McKew</td>
<td>1.0</td>
<td>Darcy Carbone</td>
<td>Embassy Suites, Waltham</td>
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<tr>
<td>October 11</td>
<td>Student Night/ Membership Night</td>
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<tr>
<td>November</td>
<td>Dedicated Outdoor Air Systems - Design and Field Experiences</td>
<td>Stanley Mumma, PHD</td>
<td>1.5</td>
<td>John Morrill</td>
<td>Embassy Suites, Waltham</td>
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<tr>
<td>Tuesday,</td>
<td>History Night / Research Promotion Night</td>
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<tr>
<td>November 8</td>
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<tr>
<td><strong>December</strong></td>
<td>Solar Heating</td>
<td>Ross Trethewey</td>
<td>1.5</td>
<td>Dan Denisi</td>
<td>Embassy Suites, Waltham</td>
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<tr>
<td>Tuesday,</td>
<td>ASPE Joint Meeting</td>
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<td>December 13</td>
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<td><strong>January</strong></td>
<td>ASHRAE 90.1-2010</td>
<td>Michael Tilou</td>
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<td>Dan Diorio</td>
<td>Embassy Suites, Waltham</td>
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<tr>
<td>Tuesday,</td>
<td>Membership Night/YEA</td>
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<td>January 10</td>
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<td><strong>February</strong></td>
<td>Lessons Learned</td>
<td>Steve Tafone</td>
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<td>Steve Tafone</td>
<td>Embassy Suites, Waltham</td>
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<tr>
<td>Wednesday</td>
<td>Past President’s Night/YEA Night</td>
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<td>February 8</td>
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<tr>
<td><strong>March</strong></td>
<td>Energy Modeling Case Studies</td>
<td>Eric Studer</td>
<td>TBD</td>
<td>Jim Armstrong</td>
<td>Embassy Suites, Waltham</td>
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<td>Tuesday,</td>
<td>Joint meeting with AEE and IBPSA</td>
<td>Steve Kemp</td>
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<td>March 13</td>
<td>Student Night/ RP Night</td>
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<tr>
<td><strong>April</strong></td>
<td>2012 – 2012 New Product &amp; Energy Show</td>
<td>N/A</td>
<td>NA</td>
<td>Jeff Schultz</td>
<td>Lantana Randolph</td>
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<tr>
<td>Tuesday,</td>
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<td>Seminar Mgrs: Enrique de los Reyes &amp; Bill Garvey</td>
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<td><strong>May</strong></td>
<td>Installation Of Officers</td>
<td>Steve Rosen (RVC)</td>
<td>NA</td>
<td>Steve Nicholas</td>
<td>City Bar The Westin Waterfront</td>
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<tr>
<td>Tuesday,</td>
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<tr>
<td>May 8</td>
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<td>Boston, MA</td>
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<tr>
<td><strong>June</strong></td>
<td>Golf Outing</td>
<td>N/A</td>
<td>NA</td>
<td>Bill Garvey</td>
<td>Halifax Country Clubs</td>
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<td>Monday,</td>
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<td>June 4</td>
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<tr>
<td><strong>August</strong></td>
<td>Region 1 CRC 100th Anniversary Gala</td>
<td>Darcy Carbone</td>
<td></td>
<td>Bob Persechini</td>
<td>Boston Marriott</td>
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<tr>
<td>August 23-25</td>
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</tbody>
</table>

*Note: PDH credits may vary depending on the session and location.*
## 2011 - 2012

**BOSTON CHAPTER OFFICERS, BOARD OF GOVERNORS & CHAIRPERSONS**

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