MAIN MEETING

Overview of ANSI/ASHRAE/IESNA Standard 90.1

IES Joint Meeting / Past Presidents Night

Speaker: Lawrence G. Spielvogel, P.E., Distinguished ASHRAE Lecturer

This presentation will cover the content, background, and development of the Standard, considering the participants, procedures, and involvement of interested parties. The technical requirements cover building envelope, HVAC systems, water heating, power, and lighting. The Standard serves as the energy benchmark for the United States Green Building Council Leadership in Energy and Environmental Design (LEED) program. The status of adoption of the Standards into Model Codes and State Codes will be covered. The current status and future plans for the next edition will conclude the presentation.

See “Meet the Speaker” on page 2

Congrats to the Pats

On their 16 - 0 Season!
PRESIDENT’S MESSAGE

By Steve Rosen

Our December joint meeting with ASPE was a very informative presentation on Sustainable Documents for Chilled Water Systems and Efficient Chiller Designs. Thanks to Jackson Ball of Smardt and Sarah Maston of RDK Engineers.

The Tuesday, January 8th meeting is Past Presidents Night, so please attend if you’re a Past President of the Boston ASHRAE Chapter and continue to support us!

We are celebrating this important night with our second Distinguished Lecturer of the year, Larry Spielvogel. Larry is a Fellow of ASHRAE; a PE registered in 49 states, and was a previous Chair of the Standard 90.1 Committee. Larry will give us an Overview of ANSI/ASHRAE/IESNA Standard 90.1. This Standard serves as the energy benchmark for the LEED program.

We will also welcome for the first time as a joint meeting partner, the IES, the Illuminating Engineering Society of North America.

This upcoming meeting in Waltham, MA at the Doubletree will be a very popular event, so please RSVP as soon as you can. There are further details available on this site and in the newsletter.

Please feel free to send me e-mail at any time to express any comments, concerns or requests of your ASHRAE Chapter. Have a very Happy New Year and see you at the next meeting!

Steve
Steven.rosen@autodesk.com

Editor’s Note

By Teri Shannon

Materials for the February newsletter are due January 18.

Employment / want ads may be submitted; they need to be in Word format. A company logo (in .gif or .jpg format) may be included.

For more information, please call or e-mail me at 207-985-0873 or tshannon@dac-hvac.com. You can also visit the Boston Chapter website at www.ashraeboston.org/committees/northeastaire.html

Meet the Speaker

Mr. Spielvogel is a Consulting Engineer in King of Prussia, Pennsylvania, a suburb of Philadelphia. He holds a B.S. in Mechanical Engineering from Drexel University and is a Registered Professional Engineer in 49 States. He is also a Chartered Engineer in England, a European Engineer in all Common Market Countries, a Certified Plant Engineer, and has lectured and written extensively.

He is a Fellow of ASHRAE (American Society of Heating, Refrigerating, and Air Conditioning Engineers) and an ASHRAE Distinguished Lecturer. He was a Director at Large from 2002 to 2005. He was Chair of ASHRAE Standard 105 on Building Energy Performance. He is past Chair of the Standard 90 Panel on HVAC Systems, the Technical Committees on Energy Utilization, Computer Applications, and Service Water Heating and served as a member of the Research and Technical Committee. He was Chair of the ANSI/ASHRAE/IESNA Standard 90.1 Project Committee from 1999 to 2002. His current service includes the ASHRAE Nominating, Finance, and Advocacy Committees and the ASHRAE Foundation.

He is also a Fellow of CIBSE (Chartered Institution of Building Services Engineers) (England), a Fellow of the SLL (Society of Light and Lighting) (England), and a Member of IESNA (Illuminating Engineering Society of North America), and many other Technical Societies.

From 2001 to 2004 Mr. Spielvogel served on the U. S. National Academy of Sciences and ASHRAE committees that studied threats from terrorism and recommended methods of dealing with them, and now chairs the ASHRAE Committee on Homeland Security.

His practice is limited to consulting on energy management, procurement, and problem solving in buildings, and he has been a consultant on many major buildings around the country and the world.
I would like to thank everyone who has already donated to the Research Promotion campaign for their generosity. I am continuing to beg all the others to please, please, please consider donating whatever you can. Please fill out the form on the back cover and mail it to me with whatever contribution you can make. Another way that people can donate using a credit card is via the internet at https://www.ashrae.org/aboutus/resource_promotion (if doing it this way, please be sure to put Boston down under “Assigned ASHRAE Chapter:”). As always your generosity is greatly appreciated and will be recognized in the newsletter throughout the year.

I realize this is a bad time for many of us coming out of the Holiday season with credit card bills and such, but remember it is tax deductible and goes to a very good cause. This fund goes to research projects of great importance to us in fields such as energy conservation, food preservation, and improved operating room environments that result in fewer post-operative infections. We still have to raise about $14,000 this year. Every contribution is appreciated (large or small) as it takes participation by many members in order to support this important campaign (e.g. a $30 per year or $2.5 per month, contribution from ½ of our members would suffice to beat the goal that ASHRAE has set for our Chapter).

Thanks again!

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**Membership Promotion**

*By Dan Cooke*

You can renew your membership online at www.ashrae.org. Log in using your e-mail address and password, then go to the “Renew Membership” link at the left of the page, under the “Member Central” heading.

Keep in mind that memberships are cancelled if they are more than 6 months delinquent on Society Dues, so please take a moment to make sure that your dues are up to date.

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**Completed Research - December 2007**

**1189-RP, Investigation of Mechanism and Operating Environments that Impact the Filtration Efficiency of Charged Air Filtration Media**

Electrically charged filter materials are more common than ever in air cleaning applications. However, studies have shown that standard air filter tests do not reveal all phenomena that can take place when charged air filters are exposed to various contaminants. This research project helps designers better understand the performance of these charged air filtration media. The project studies behavior of various charged filter materials, performs lab and field testing, and characterizes factors such as operating conditions, particle size, and resistivity on filter efficiency degradation and pressure drop.

1189-RP was sponsored by TC 2.4, Particulate Air Contaminants and Particulate Air Contaminant Removal Equipment. The principal investigator was Matti Lehtimaki of VTT Automation.

**1194-RP, Dynamic Modeling Of Chilled Water Cooling Coils**

This research developed a fully validated transient chilled water cooling coil model. It is believed to be the first fully validated by experimental data. These computationally efficient models are valuable tools for developers and can help speed development of system control and fault detection and diagnostic (FDD) algorithms.

Four technical papers were submitted for future publication in the ASHRAE HVAC&R Research and future ASHRAE meetings.

1194-RP was sponsored by TC 7.4, Building Operation Dynamics. The principal investigator was Dr. James Braun of Purdue University.
DECEMBER MEETING RECAP

By Steve Rosen

The ASHRAE Boston Chapter hosted a December meeting on Turbocor Chillers and Sustainable Documents for Chilled Water Systems. The featured speakers were Jackson Ball, of Smardt, Inc. and Sarah Maston, of RDK Engineers.

The members learned of exceptionally high efficiency, super quiet, lubricant free compressors in air conditioning chiller applications. Discussions covered how these chillers are particularly well suited for plants running combined variable chilled water and variable condenser water pumping.

Sarah Maston discussed a better way to produce construction documents for HVAC pumping and piping systems. Benefits include fewer drawings, more accurate pricing and more valuable information for the start up and operations teams.

The attendees received 1.5 PDH credits.

Engineers Week 2008 - Sponsors Needed

The Boston Engineers Week Committee invites you to sponsor our upcoming National Engineers Week Events. Dedicated to raising public awareness of engineers' positive contributions to quality of life, Engineers Week promotes recognition among parents, teachers and students of the importance of a technical education, and motivates youth to pursue engineering careers in order to provide a diverse and vigorous engineering workforce. Each year Engineers Week Boston reaches dozens of schools, businesses, and community groups within our Region. As leaders of the engineering community, we can all take pride in supporting this effort.

This year's events will be held at the Hyatt Regency Boston and include the following:

Career Night, Thurs., February 14, 2008: Career fair for engineering firms in the greater Boston area to meet with hundreds of engineering school students attending.

Awards Luncheon, Fri., February 15: Keynote speaker - Charles M. Vest, President of the National Academy of Engineering. Dr. Vest served as the President of MIT from 1990 to 2004 and worked to enhance science and engineering in undergraduate education.

At the luncheon we will also present the annual New England Achievement Award to Linda Fuhrman, the Director of Education and a Project Manager for Draper Laboratories.

For more information on how you can help, contact Darcy Carbone at dcarbone@stebbinsduffy.com.
ASHRAE Legislative Round-Up

WASHINGTON, D.C. – The U.S. Departments of Housing and Urban Development (HUD) and Agriculture (USDA) would be required to meet energy efficiency requirements in ASHRAE/IESNA Standard 90.1 under the federal energy bill signed into law by President Bush on Wednesday.

Under existing law, HUD and the USDA are required to write energy-efficient standards for public and assisted housing and housing with federally insured mortgages. Such standards have to be at least as stringent as ANSI/ASHRAE/IESNA Standard 90.1-1989, Energy Standard for Existing Buildings Except Residential, and Council of American Building Officials (CABO)-1992. When either 90.1 or CABO is updated, the agencies have a year to revise their standards, but this has rarely taken place.

Under the new law, HUD and USDA will be required to implement standards at least as stringent as Standard 90.1-2004 or the 2006 International Energy Conservation Code (IECC) for all new construction and rehabilitation of public and assisted housing and housing with federally insured mortgages. Upon revision of 90.1 or IECC, HUD and the USDA have one year to update their standard to meet or exceed the revised requirements. If they do not do so within a year, all new and rehabilitation of housing covered by the federal standard will need to meet the revised IECC or 90.1, following a positive determination by the U.S. Department of Energy and HUD/USDA determination that it would not negatively impact availability or affordability of housing.

“This provides additional validation of the importance of energy savings in Standard 90.1 and also provides a baseline for all public and assisted housing and federally insured mortgage property in all states,” Doug Read, ASHRAE director of government affairs, said.

ASHRAE Provides Technical Guidance on Proposed Depreciation Bill

WASHINGTON, D.C. – ASHRAE has provided technical guidance for proposed legislation that would shorten the depreciation of certain HVAC&R systems.

Reps. Melissa Bean (Ill.) and Pete Hoekstra (Mich.) recently introduced HR4574, which would amend the Internal Revenue Code of 1986 to provide a shorter recovery period for the depreciation of certain systems installed in nonresidential real property or residential rental property. ASHRAE, at the request of Bean, provided language on the depreciation of HVAC&R equipment. The existing depreciation period is 39 years. The proposed legislation would reduce the period to 20 or 25 years, encouraging replacement of equipment sooner that would result in more modern/efficient equipment being installed.

“ASHRAE contributed language that would encourage building owners to replace older, less-efficient HVAC&R equipment with newer, more efficient systems,” Doug Read, ASHRAE’s director of government affairs, said. “Owners also would receive additional incentive to go beyond the minimum efficiencies required in ASHRAE/IESNA Standard 90.1. Replacing this equipment will result in significant energy savings, reduced greenhouse gas emissions, and would encourage the retirement of older chillers that require the use of CFCs.”

ASHRAE Public Relations

Attention Members:

Just a reminder that all members who reserve a spot for the monthly meeting will be responsible for that reserved space. Members have until 12:00 pm the day of the RSVP deadline to cancel their meeting reservation. Failure to comply with this rule will result in the attendee being responsible for the payment of that reservation.

ASHRAE Boston Chapter Officers
Upcoming Events

AHR Winter Expo
When: January 22 - 24, 2008
Where: New York, NY
FMI: www.ashrae.org/events

Region 1 Dinner
When: January 20, 2008
Where: Bond 45, New York, NY
FMI: garry.myers@ny.fk.com - see page 7 for details

New England Facilities Expo
When: March 19 - 20, 2008
Where: Seaport World Trade Center, Boston, MA
FMI: www.facilitiesexpo.com

Tour of Genzyme Building [ADDED MEETING!]
When: April 1, 2008
Where: Genzyme, Cambridge, MA
FMI: jshiminski@dac-hvac.com

Boston Chapter Product Show
When: April 15, 2008
Where: Lantana’s, Randolph, MA
FMI: Jeff Schultz, jhs@brplusa.com

All Boston Chapter members are encouraged to attend any or all of these meetings.

Student Activities

By Joshua Benoist

The Boston Chapter is currently looking to expand our Student Chapter branches. We’d like to increase the amount of colleges involved, and we really should be able to gain more based on the amount of engineering colleges out there. If any member has attended one of these local engineering colleges and would like to help, or give a point of contact, we’d like to form relationships between the Chapter and these Colleges. Please feel free to contact us at Joshua.Benoist@Autodesk.com.

We have also begun research for what the Student Branches may be looking for from the Boston Chapter itself (what the Chapter can do for the College). Any info would be greatly appreciated.

We want to mention this coming year the Winter Meeting is in NYC - students (who get in free) have a great opportunity to attend!

The Regional Student Activities Committee currently has a position open for a Student Consultant/Ambassador for the 2008 Winter Meeting in New York. The Student Ambassador will assist the Committee at their next meeting by providing input on the various student issues that the Committee addresses. Please feel free to contact us at Joshua.Benoist@Autodesk.com.

Please spread the word.

Webmaster’s Note

By Steve Rosen

The Boston Chapter for ASHRAE has launched its redesigned website www.ashraeboston.org. We will be keeping the site current with information; you can also view our award winning newsletter, the NorthEastAire!

Each month meeting attendees can view photos from the previous meetings (if submitted) and also view a video message from the Chapter president. We will archive these photos on the website.

Look for new features every month! The Boston Chapter’s Library of Historical items is in the process of being documented & will then be photographed so that we can have also have a virtual Historical Library on our website! Jim Liston is our Chapter Historian and we would both like to thank Bard, Rao + Athanas Consulting Engineers for finding an actual home for our artifacts!

Please email the Webmaster directly from the site with any news or events to be published to the web.

ATTENDANCE
The Boston Chapter of ASHRAE - December 2007 Meeting
Had 111 in attendance:
60 ASHRAE Members
5 Non Members
12 Students
34 ASPE Members
Region I, III and V Dinner
New York City Winter Meeting

Date: Sunday, January 20, 2008 [Note new night]

Location: Bond 45 - Located at 154 West 45th Street, New York, NY

Time: 7:00 PM Dinner
Cash Bar

Menu: 

Family Style Appetizers
Vegetable Antipasto & Pizza Margherita

Choice of Entrees:
Tagliolini alla Checca - fresh baby tomatoes, buffalo mozzarella & basil
Salmon Farcito - stuffed with shrimp, scallops & spinach
Costoletta di Pollo Parmigiana - lightly breaded w/ fresh tomato & buffalo mozzarella

Desserts
NY Style Strawberry Cheesecake or Tiramisu

Cost: $50.00 per person received by January 13, 2008 - Dinner has limited seating - reservations
Received after Jan. 13 (including meeting sign ups) are subject to space availability.
$55.00 per person after Jan. 13 - Meeting sign ups (cut off is Noon January 20th)

Reservations with payment: must be received by January 13, 2008

Name _________________________________   Menu Choice _____________________________
Name _________________________________   Menu Choice _____________________________
Name _________________________________   Menu Choice _____________________________
Name _________________________________   Menu Choice _____________________________

Make checks out to ASHRAE – Region 1 Fund & mail to: Garry Myers
83 Bonnie Way
Allensdale, NJ 07401
What’s New in our Chapter
By Pat Duffy

Each and every month the Board of Governors have a meeting before the technical meeting to discuss the inner-workings of our Chapter. Many members wonder what’s new, what’s being discussed, and what’s being done to make our chapter better.

Below is a quick summary of what was discussed:

ASHRAE Research Promotion: The Boston Chapter of ASHRAE has completed the “Full Circle Award” once again this year. This award is given to a Chapter when each Chapter Officer donates $100 or more towards ASHRAE Research Promotion.

CTTC Reaching out: The CTTC committee is looking into reaching out to the major towns and cities of Massachusetts to offer our assistance if required for energy saving tips and suggestions. Letters will be sent out to town engineers.

Chapter Website: The Chapter now has a new-revamped website to help keep chapter members up to date on chapter news and events. If your company would like to place an ad on the website, it can for the ad price of $300.

BASC: The Boston Chapter of ASHRAE Sustainability Committee is currently looking into a possible lab seminar, possibly 4 hours in length. More information to follow as this develops.

Genzyme Tour: A tour of the Genzyme Center building that has received the Platinum LEED rating has been scheduled to take place on April 1st. The tour will be in addition to the Product show, which will be held April 15th.

This Year’s Meetings: Anyone interested in seeing what 2008 has in store, please check out the Events Calendar on the Chapter Website for additional information. All Board of Governor’s meetings are going to remain at 4:30pm the day of the meeting.

Product Show 2008: The Bi-annual Boston Chapter Product Show will again be held on April 15th at Lantana’s. There will be 8 seminars, approx. 1.5 hours long each, held the majority of which will offer PDH credits. The topics are still in discussion. If you would like to reserve a table the fee is $875 per booth. Jeff Schultz will once again be running the product show, and you can contact him at anytime to reserve a table.

Membership: Our Membership Chair wanted to remind all members to make sure their dues are paid up in full. Unsure as to whether you are up-to-date or not? Please be sure to check Society’s website www.ashrae.org or contact our Membership Chairperson Dan Cooke for more membership information.

Student Activities: Joshua Benoist is working on developing additional student chapters at colleges and universities in Massachusetts. He is striving to continue to expand the student involvement in ASHRAE, so that the next generation of engineers can be engaged at an early point in their development.

See you at the next meeting!!

Presidential Award of Excellence
Boston Chapter - 2007 - 2008

<table>
<thead>
<tr>
<th>Chapter Members</th>
<th>Membership Promotion Points</th>
<th>Student Activities Points</th>
<th>Research Promotion Points</th>
<th>History Points</th>
<th>Chapter Operations Points</th>
<th>Chapter Technology Transfer Points</th>
<th>Chapter PAOE Point Totals</th>
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Historian’s Column

By Jim Liston

A TIMELINE OF THE HISTORY OF AIR CONDITIONING
IN THE UNITED STATES – PART 2

<table>
<thead>
<tr>
<th>Year</th>
<th>Event</th>
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</thead>
<tbody>
<tr>
<td>1911</td>
<td>The first air conditioned movie theatre is the Follies Bergere Theatre in New York City.</td>
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<tr>
<td>1914</td>
<td>The first air conditioned home is one owned by Charles Gates, son of a famous gambler.</td>
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<tr>
<td>1915</td>
<td>Willis Carrier and six other engineers form the Carrier Engineering Corporation with an initial investment of $35,000.00.</td>
</tr>
<tr>
<td>1921</td>
<td>Carrier Corporation patents the centrifugal refrigeration compressor; Dielene, a non-flammable and low toxicity refrigerant, is developed by Carrier Corporation and replaces ammonia as the refrigerant of choice.</td>
</tr>
<tr>
<td>1924</td>
<td>J.L. Hudson Department Store in Detroit is the first such store to be equipped with air conditioning. It utilizes 3 Carrier centrifugal chillers.</td>
</tr>
<tr>
<td>1928</td>
<td>Thomas Midgley, Albert Henne and Robert McNary working for the General Motors Research Lab, synthesize Freon, the world’s first chlorofluorocarbon (CFC), for Frigidaire Corporation (at that time a subsidiary of GM). Prior to Freon, ammonia, methyl chloride and propane are used as refrigerants, each with either a flammability or toxicity issue.</td>
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<tr>
<td>1928</td>
<td>Carrier introduces the “Weathermaker”, the first practical whole-home air conditioner, but size, cost and complexity limits its appeal to homeowners.</td>
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<tr>
<td>1929</td>
<td>Frigidaire, already having manufactured millions of low-cost, small-sized refrigerators for the residential market, introduces the first “room cooler”, which utilizes sulfur dioxide as the refrigerant. It has a cooling capacity of 12,000 BTH and is intended for installation in the basement or outside.</td>
</tr>
<tr>
<td>1930</td>
<td>Carrier Corporation provides the first railroad car air conditioning unit to the Baltimore &amp; Ohio Railroad Company. In 15 minutes, it reduces the temperature in the “Martha Washington” dining car from 93°F to 73°F.</td>
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<tr>
<td>1936</td>
<td>Albert Henne synthesizes R-134a refrigerant.</td>
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<tr>
<td>1938</td>
<td>Philco-York markets a window air conditioning unit that utilizes Freon as a refrigerant and can be plugged into an electrical outlet.</td>
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<tr>
<td>1939</td>
<td>Packard introduces the first automobile air conditioner, which didn’t have a thermostat and was controlled by connecting and disconnecting a fan belt that drove the compressor off of the engine.</td>
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<tr>
<td>1959</td>
<td>Carrier Corporation centrifugal compressors are used to pump cool air into the passenger compartment of the Douglas DC-8, making it the first air conditioned passenger jet cabin.</td>
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Information contained in this article was collected from several sources, including “The Greatest Engineering Achievements of the Twentieth Century” by the National Academy of Engineering, and the Carrier Corporation website.

[Editor’s Note: Part I appeared in the November 2007 issue.]
As the January meeting is “Past Presidents Night”, the following is a list of the past presidents of the Boston Chapter:

**1962 - Present -- American Society of Heating, Refrigerating and Air Conditioning Engineers (ASHRAE)**

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<td>2006</td>
<td>2007</td>
<td>Darcy Carbone</td>
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<td>2005</td>
<td>2006</td>
<td>Enrique de los Reyes</td>
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<td>2004</td>
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<td>Steven Tafone</td>
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<td>2003</td>
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<td>Cheryl Rossini</td>
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<td>George M. Hardisty</td>
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<td>Richard Anderson</td>
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<td>2000</td>
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<td>John Brown</td>
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<td>1999</td>
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<td>Nicholas A. Johnson</td>
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<td>1998</td>
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<td>Eric Edman</td>
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<td>1996</td>
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<td>Britta Maclntosh</td>
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<td>Ted Athanas</td>
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<td>Edward Waldman</td>
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<td>John C. Morrill</td>
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<td>1992</td>
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<td>Allan Ames</td>
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**1954-1962 -- American Society of Heating and Air Conditioning Engineers (ASHAE)**

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<td>Robert E. Reid</td>
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<td>1959</td>
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<td>Francis J. Butler</td>
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**1911-1954 -- American Society of Heating and Ventilating Engineer (ASHVE)**

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<td>William H. Shipp</td>
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<td>Carl Larson</td>
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<td>J. W. Brinton</td>
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<td>1939</td>
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<td>C. P. Yaglou</td>
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**1929-1962 -- American Society of Refrigerating Engineers (ASRE)**

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<td>1952</td>
<td>W. Steeves</td>
</tr>
</tbody>
</table>

**Past Boston Chapter Presidents**

1962 Present -- American Society of Heating, Refrigerating and Air Conditioning Engineers (ASHRAE)

- 2006 - 2007: Darcy Carbone
- 2005 - 2006: Enrique de los Reyes
- 2004 - 2005: Steven Tafone
- 2003 - 2004: Cheryl Rossini
- 2002 - 2003: George M. Hardisty
- 2001 - 2002: Richard Anderson
- 2000 - 2001: John Brown
- 1999 - 2000: Nicholas A. Johnson
- 1998 - 1999: Mark Vandini
- 1997 - 1998: Eric Edman
- 1996 - 1997: Britta Maclntosh
- 1993 - 1994: John C. Morrill

1954-1962 -- American Society of Heating and Air Conditioning Engineers (ASHAE)

- 1961 - 1962: Ray B. Stevens
- 1960 - 1961: Robert E. Reid
- 1959 - 1960: Francis J. Butler

1911-1954 -- American Society of Heating and Ventilating Engineer (ASHVE)

- 1953 - 1954: Arthur L. Hare
- 1952 - 1953: George B. Torrens
- 1951 - 1952: John Bonner
- 1950 - 1951: Raymond Borden
- 1949 - 1950: Donald W. Blair
- 1947 - 1948: T. T. Kerr
- 1946 - 1947: Adolph Ehrenzeller
- 1945 - 1946: Carl Larson
- 1944 - 1945: D. M. Archer
- 1943 - 1944: D. M. Archer
- 1942 - 1943: E. G. Carrier
- 1941 - 1942: E. G. Carrier
- 1940 - 1941: J. W. Brinton
- 1939 - 1940: C. P. Yaglou

1929-1962 -- American Society of Refrigerating Engineers (ASRE)

- 1958 - 1959: H. L. Snyder
- 1957 - 1958: H. Gechijian
- 1956 - 1957: Wilder Parks
- 1955 - 1956: F. W. Smith
- 1954 - 1955: S. R. Peterson
- 1953 - 1954: W. S. Levings
- 1952 - 1953: L. B. Mann
- 1951 - 1952: W. Steeves
<table>
<thead>
<tr>
<th>Date</th>
<th>Main Program</th>
<th>Speaker</th>
<th>PDH Credits</th>
<th>Meeting Manager</th>
<th>Location</th>
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<tr>
<td>September</td>
<td>Opening Meeting!! Join us for a tour of the TD Banknorth Garden</td>
<td>N/A</td>
<td>N/A</td>
<td>Teri Shannon</td>
<td>TD Banknorth Garden - Boston</td>
</tr>
<tr>
<td>Tuesday, September 25, 2007</td>
<td></td>
<td></td>
<td></td>
<td><a href="mailto:tshannon@dac-hvac.com">tshannon@dac-hvac.com</a></td>
<td></td>
</tr>
<tr>
<td>October</td>
<td>Fuel Cells</td>
<td>Jim Horwitz</td>
<td>Approved for 1.5 PDH’s</td>
<td>Jim Shiminski</td>
<td>Doubletree - Waltham</td>
</tr>
<tr>
<td>Tuesday, October 9, 2007</td>
<td>Research &amp; Promotion Night</td>
<td></td>
<td></td>
<td><a href="mailto:jshiminski@dac-hvac.com">jshiminski@dac-hvac.com</a></td>
<td></td>
</tr>
<tr>
<td>November</td>
<td>Mechanical Design for Green Buildings</td>
<td>Thomas Lawrence, Ph.D., P.E. - Distinguished Lecturer</td>
<td>Approved for 1.5 PDH’s</td>
<td>Enrique de los Reyes</td>
<td>Doubletree - Waltham</td>
</tr>
<tr>
<td>Tuesday, November 13, 2007</td>
<td>AEE Joint Meeting / Student Night</td>
<td></td>
<td></td>
<td><a href="mailto:er@energysystemsdesign.com">er@energysystemsdesign.com</a></td>
<td></td>
</tr>
<tr>
<td>December</td>
<td>Efficient Chillers &amp; Pumping Stations</td>
<td>Jackson Ball, Smardt, Inc.</td>
<td>Approved for 1.5 PDH’s</td>
<td>Fran Boucher</td>
<td>Lantanas - Randolph</td>
</tr>
<tr>
<td>Tuesday, December 11, 2007</td>
<td>ASPE Joint Meeting / Membership Promotion</td>
<td>Sarah Maston, RDK Engineers</td>
<td></td>
<td><a href="mailto:francis.boucher@us.ngrid.com">francis.boucher@us.ngrid.com</a></td>
<td></td>
</tr>
<tr>
<td>January</td>
<td>Overview of ANSI/ASHRAE/IESNA Standard 90.1</td>
<td>Larry Spielvogel - Distinguished Lecturer</td>
<td>Pending</td>
<td>Bryan Hermanny</td>
<td>Doubletree - Waltham</td>
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<tr>
<td>Tuesday, January 8, 2008</td>
<td>IES Joint Meeting / Past Presidents Night</td>
<td></td>
<td></td>
<td><a href="mailto:bmh@brplusa.com">bmh@brplusa.com</a></td>
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</tr>
<tr>
<td>February</td>
<td>“BIM There, Done That!” BIM (Building Information Modeling)</td>
<td>Robert Middlebrooks, AIA AEC Solutions, Autodesk</td>
<td>Pending</td>
<td>Steve Bosland</td>
<td>Doubletree - Waltham</td>
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<tr>
<td>Tuesday, February 12, 2008</td>
<td>AIA Joint Meeting / Research &amp; Promotion Night</td>
<td></td>
<td></td>
<td><a href="mailto:sbosland@eypac.com">sbosland@eypac.com</a></td>
<td></td>
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<tr>
<td>March</td>
<td>LEED in Boston</td>
<td>Jim Hunt, Office of Mayor Thomas Menino</td>
<td>Pending</td>
<td>Jim Shiminski</td>
<td>Doubletree - Waltham</td>
</tr>
<tr>
<td>Tuesday, March 11, 2008</td>
<td>History Night</td>
<td></td>
<td></td>
<td><a href="mailto:jshiminski@dac-hvac.com">jshiminski@dac-hvac.com</a></td>
<td></td>
</tr>
<tr>
<td>April -</td>
<td>Tour of Genzyme Bldg - Note: Added Meeting!</td>
<td>N/A</td>
<td>N/A</td>
<td>Jim Shiminski</td>
<td>Genzyme - Cambridge, MA</td>
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<tr>
<td>Tuesday, April 1</td>
<td></td>
<td></td>
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<tr>
<td>Tuesday, April 15, 2008</td>
<td>Product Show</td>
<td></td>
<td>Pending</td>
<td>Jeff Schultz, Bill Garvey</td>
<td>Lantanas - Randolph</td>
</tr>
<tr>
<td>May</td>
<td>Installation of Officers</td>
<td>N/A</td>
<td>N/A</td>
<td>Jeff Schultz</td>
<td>TBD</td>
</tr>
<tr>
<td>Tuesday, May 13, 2008</td>
<td></td>
<td></td>
<td></td>
<td><a href="mailto:jhs@brplusa.com">jhs@brplusa.com</a></td>
<td></td>
</tr>
<tr>
<td>June</td>
<td>Golf Outing</td>
<td>N/A</td>
<td>N/A</td>
<td>Bill Garvey</td>
<td>Poquoy &amp; Halifax Country Clubs</td>
</tr>
<tr>
<td>Monday, June 2, 2008</td>
<td></td>
<td></td>
<td></td>
<td><a href="mailto:bgarvey@seicompanies.com">bgarvey@seicompanies.com</a></td>
<td></td>
</tr>
</tbody>
</table>
### OFFICERS

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  donna@a-ggraphics.com

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  stafone@berry.com

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- **Darcy Carbone**, Stebbins-Duffy  
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  dcarbone@stebbinsduffy.com

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  joshua.benoist@autodesk.com

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  steven.rosen@autodesk.com
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Max Levi
Daniel Miles, PE
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Steve Rosen
Jeffrey Schultz
Parker Symmes
Steve Tafone, PE
Jane Wolf
Jeffrey Zajac

CALL DARY CARBONE NOW! AT 781-246-0840, OR:

Mail Check (Payable to “ASHRAE Research) to:
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C/O DARY CARBONE
STEBBINS-DUFFY
545 SALEM STREET
WAKEFIELD, MA  01880

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Company: __________________________________________________________________________________________
Address: ___________________________________________________________________________________________
TEL: _____________________________________________________

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<td>$500.00</td>
<td>$1,000.00</td>
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Other: ____________

NorthEastAire

ASHRAE - BOSTON CHAPTER  www.ashraeboston.org

DAC Sales
P.O. Box 576
West Kennebunk, ME  04094

ADDRESS SERVICE REQUESTED