



NorthEastAire

ASHRAE - American Society of Heating, Refrigerating and Air-Conditioning Engineers
Boston Chapter, Region 1 www.ashraeboston.org

XXXXV No. 63

November 2007

Editor: Teri Shannon TEL: 207-985-0873

2007 - 2008 Officers



Steve Rosen,
President



Jeff Schultz,
President-Elect



Bryan Hermanny,
Vice-President



Bill Garvey,
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Secretary



MAIN MEETING

Mechanical Design for Green Buildings

Speaker: Dr. Tom Lawrence, P.E.
ASHRAE Distinguished Lecturer

AEE Joint Meeting / Student Night

With all of the talk about sustainability and green buildings we will have a presentation on the Mechanical Design for Green Buildings by Dr. Tom Lawrence. Dr. Lawrence will start off by defining a green building and why do we want to achieve that? He will then cover the effect of HVAC systems on a building's "greenness" and present examples of technology areas for focus and current trends.

See "Meet the Speaker" on page 2



WAY TO GO, SOX!!!

Congrats on becoming the 2007
World Series Champions!!!

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DATE: Tues., November 13, 2007

MEETING MANAGER: Enrique de los Reyes

MEETING PLACE: DoubleTree, Waltham

TIME: 5:30 - 6:00 p.m. - Social half hour
6:00 - 7:00 p.m. - Dinner
7:00 - 8:00 p.m. - Main Program

COST: Members that RSVP	\$30.00
Members that do not RSVP	\$40.00
Non-Members	\$40.00
Students	Free

DIRECTIONS: Rt. 128S to Winter St. Ext. (27B), head west off the exit. Turn left at the bottom of the hill onto Second Ave. Double-Tree Hotel is the first driveway on the left.

RSVP: Chris Kerr - ckerr@sebesta.com by Fri., Nov. 9

This Month's Menu

Appetizer:

New England Clam
Chowder

Dinner Salad:

Caesar Salad

Entrée:

Roast Prime Rib of
Beef

Dessert:

Carrot Cake

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PRESIDENT'S MESSAGE

By Steve Rosen

Our October meeting was a very informative presentation on Fuel Cells by Jim Horwitz. Thanks Jim & thanks to Jim Shiminski for his efforts as the Meeting Manager.

Please come to the Doubletree in Waltham on November 13th for a presentation on the Mechanical Design for Green Buildings by Dr. Tom Lawrence. Dr. Lawrence is from the University of Georgia, and is an ASHRAE Distinguished Lecturer. The Association of Energy Engineers will be joining us at this meeting.

Last month I said I would tell you about your Chapter Committees work. Our new Student Activities Chair, Joshua Benoist, is working on adding new Student Chapters. Please contact Joshua (joshua.benoist@autodesk.com) if you are a recent graduate or a professor of a University or College that would like to be considered by ASHRAE for becoming a Student Chapter.

Our Student Activities Co-Chair, our Past President Cheryl Rossini, is very busy with student scholarships. She'll tell you about her work at the November meeting, which is also our Student Night. We will be welcoming the Regional Vice Chair of Student Activities, Rich Vehlow, and also presenting a \$3,000 scholarship check to a student from Wentworth! We will have Undergraduate Engineering, Regional and University, and Engineering Technology scholarship applications available at the meeting for students.

This upcoming meeting will be a very popular event, so please RSVP as soon as you can. There are further details available in this newsletter.

Please feel free to send me e-mail steven.rosen@autodesk.com at any time to express any comments, concerns or requests of your ASHRAE Chapter. See you at the next meeting!

Steve



Editor's Note

By Teri Shannon

Materials for the December newsletter are due **November 13**.

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

Thomas M. Lawrence is a Public Service Associate with the University of Georgia, and has over 25 years of professional experience in engineering and environmentally related fields. Before going back for his Ph.D. in Mechanical Engineering at Purdue, he spent approximately 20 of those years in progressively more responsible engineering and management positions in industry and consulting. Currently, he is vice-chair of ASHRAE Technical Committee 2.8, "Building Environmental Impact and Sustainability", and is a member of the Special Project Committee 189 writing an ASHRAE standard on high-performance green buildings. Dr. Lawrence has presented papers on building energy usage and indoor air quality at conferences in the U.S. and Europe, and has published papers on sustainable design and energy usage in buildings in journals such as *ASHRAE Journal*, *Solar Today*, and *Buildings and Environment*. At the University of Georgia, Dr. Lawrence teaches or has taught courses in Building Environmental Control, Green Building Design, Industrial Ventilation, Residential Building Design, Heat Transfer and Thermodynamics, and in these courses he works to bring in sustainable design concepts and practices. As part of the University of Georgia Engineering Outreach program, he is helping to coordinate building energy reduction activities within the state university system. Dr. Lawrence is also a consultant for Commissioning and Green Building Solutions in the Atlanta, Georgia area. He is an active volunteer with Habitat for Humanity, serving on the board of directors for the Athens, Georgia chapter while working to introduce sustainable design practices in the houses built there.

Dr. Lawrence has a B.S. with Highest Distinction honors in Environmental Science from Purdue University (1978), a M.S. in Mechanical Engineering from Oregon State University (1982) and a second M.S. degree in Engineering Management from Washington University earned in 1989. He received his Ph.D. in Mechanical Engineering from Purdue University in the spring of 2004 researching the impacts of demand-controlled ventilation on energy consumption and indoor air quality in smaller commercial buildings. Dr. Lawrence is a member of the American Society of Heating, Refrigeration and Air Conditioning Engineers; the American Society for Engineering Education and Phi Beta Kappa.

PDH CREDIT REMINDER

- Attendees wishing to receive PDH credits must present a business card at the meetings
- Members may receive PDH credits at no additional cost
- Non-members may receive PDH credits for a \$15 fee



Research Promotion

By Darcy Carbone

I would like to thank everyone who has already donated to the Research Promotion this season. Because of your generosity, I believe that the Boston Chapter can reach our goal this year. 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 would like to raise about \$20,000 this year and, once again, we need your help. 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 55% of our members would suffice to beat the goal that ASHRAE has set for our Chapter). All of the Officers are joining me in personally donating at least \$100 this month each as a way to demonstrate our commitment to this cause.

I ask each of you to please fill out the form on the back cover and mail it to me with whatever contribution you can make. You can also donate using a credit card via the internet at <https://membership.ashrae.org/template/ResourcePromotion> (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.

Thank You!

Attention Members:

Just a reminder that all members that 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



Membership Promotion

By Dan Cooke

To broaden the knowledge of engineers and engineering organizations, ASHRAE and the Chartered Institution of Building Services Engineers (CIBSE) are making it easier for their members to join their respective groups.

Under a new agreement, ASHRAE members who hold professional engineering designations can join CIBSE without undergoing the normal qualifications review. Likewise, CIBSE members can join without undergoing ASHRAE's admissions and advancement review.

"Making it easier for ASHRAE and CIBSE members to join our respective organizations furthers the exchange of ideas," said Terry Townsend, Presidential Member ASHRAE.

"When our members join other groups, particularly outside North America, they are exposed to new technologies since HVAC&R technology differs due to geographic, environmental, cultural and economic requirements. This exposure makes for more well-rounded engineers and more well-rounded engineering organizations."

ASHRAE members who are interested in joining CIBSE can contact membership@ashrae.org. An online application form is available at www.ashrae.org.

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Upcoming Events

23rd Annual Build Boston

When: November 13 - 15, 2007

Where: Seaport World Trade Center, Boston

FMI: www.buildboston.com/home.asp

AHR Winter Expo

When: January 22 - 24, 2008

Where: New York, NY

FMI: www.ashrae.org/events

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.



Mechanical Engineers and Designers Wanted!

Are you ready to work for a different kind of engineering firm? Are you ready to benefit from our equitable pay practices and great benefit programs? Do you want to learn and advance with one of the fastest growing MEP firms in the region? Our firm thrives because of our well structured project management system and our studio-based organizational structure. Frequent in-house training is offered in both technical and non-technical skills. Sustainable design training programs are on our agenda as well. Our employees learn in comfort in our brand new state of the art training rooms.

Our 200+ technical and administrative staff members all say that time flies around here. RDK has many exciting MEP design projects in house. Visit our website and take a look at just a few of the great projects we are working on.

We are looking to the future and we are in need of a few great design engineers.

Plumbing, Fire Protection and Electrical positions are also available at RDK's three office locations in Andover and Boston, MA and New Brunswick, NJ

For more information, visit and/or apply on our website at www.rdkengineers.com. Or email to: careers@rdkengineers.com or fax to 978-296-6316



Boston ASHRAE Sustainability Committee (BASC)

By Jim Shiminski & Fran Boucher



Green Advocates:

Please remember to register your membership with the Massachusetts USGBC Chapter.

The newly expanded USGBC Affiliate Organization will be under the leadership of a new broad based board of directors in the next month. All are encouraged to join this organization, which at this time is free of charge. There is already tremendous support for this organization from the Architecture and vender community.

Lets show them our commitment to sustainable design by getting involved in this effort to bring all sides together to promote a more sustainable future. Sign up at <http://mass-affiliate.obiki.org/index.html> .



Sr. HVAC Engineer

One of CT's leading Consulting Engineering Firms is looking for Sr. HVAC Engineers for their Farmington CT office.

van Zelm is a multi-disciplined firm with 75 years experience in providing engineering services on some of the most challenging projects including University, Health Care, Labs, Power and Utility and LEED-certified buildings, not to mention commissioning services.

We provide a great working environment with an opportunity for growth. Competitive benefits package incl. 401k, medical/dental w/generous company contribution and relocation assistance.

10+ years experience, PE preferred, but not mandatory. A great attitude and the ability to visualize and interpret drawings, strong problem solving ability and be able to work within team atmosphere is necessary.

Please send your resume to:

hrdept@vanzelm.com

Fax: 860-284-5098



CCTC - TEGA Article

By Darcy Carbone

Services Expanding Globally

ASHRAE has approved strategies to help strengthen its role as a global resource for HVAC&R practices through expanded membership services and cooperation with associations globally.

ASHRAE has some 50,000 members in more than 130 countries, and in recent years has seen an increase in its membership outside of North America, outpacing the growth rate of its traditional membership base. New technologies have also accelerated at varying speeds in different parts of the world.

In response to these challenges, the ASHRAE Board of Directors has adopted the Strategies for a Global Environment, incorporated into its Strategic Plan adopted last year.

Through the 14 strategies in the plan, ASHRAE hopes to expand the amount and the quality of information and services available to its members.

“ASHRAE’s adoption of its Strategic Plan was a significant commitment to becoming a truly global Society,” said Tom Watson, P.E., who chaired the committee that developed the strategies. “Successful implementation of the plan requires that ASHRAE become a global leader in sustainable design in HVAC&R.

“ASHRAE members, no matter where they reside or work, need access to technologies and products that draw upon the best knowledge of individuals throughout the world. ASHRAE understands and appreciates the impact that globalization has on trade, business, technology and communication.

“ASHRAE’s approach to this phenomenon respects national and international membership organizations, partnering to create resources that are more than the sum of their parts and delivering them beyond where they were previously available.”

The strategies include:

- Developing expertise in HVAC&R technologies to embrace whole building sustainable design and be one of the most valuable global resources for publications and educational products related to sustainable HVAC&R technology.

- Pursuing opportunities and processes along with translation to publish its literature in various languages.
- Cooperating with organizations with shared objectives and strengthening the ASHRAE Associate Societies Alliance.
- The cost of annual membership dues will be balanced with the cost of providing membership benefits and services in different geographic regions.
- Pricing publications and educational products so they are within reach of ASHRAE’s global membership but will not be priced at less than the cost of providing them.
- Volunteer participation obstacles will be overcome through meeting planning and organization that is sensitive to global participation and that benefits from electronic communication technologies.
- While ASHRAE’s chapter and regional structure shall be the backbone of ASHRAE’s structure globally, it shall be flexibly applied to serve membership.
- Supporting, in cooperation with national associations, a uniform, international standard for credentialing in the disciplines and practices of HVAC&R.
- Actively supporting and participating in international standard development activities.
- Actively protecting its intellectual property rights.
- Providing enhanced staff support outside of the United States.
- Aligning its business practices to better serve members globally.
- Pursuing, in cooperation with national societies or independently, conferences and exhibitions outside North America.
- Strengthening the ASHRAE Brand to reflect a global strategy that serves the needs of all members.

The strategies can be read at www.ashrae.org/globalstrategy.

Source: ASHRAE *Insights*



HAPPY THANKSGIVING!



Boston ASHRAE Continuing Education

By Steve Bosland

All of us have needs for continuing education; some of us maintain licenses in states other than Massachusetts while others strive to stay current in the world of HVAC and Engineering. Since Enrique de los Reyes began the program to receive continuing education credits from The Practicing Institute of Engineering, Inc. (PIE) we have issued hundreds of certificates.

In order to obtain the education certificates, ASHRAE Boston submits our monthly meeting speaker biographies, program outlines and PowerPoint program copies for review to the PIE. They review the documentation and based on the speaker and content, may agree to provide a number of professional development hours (PDH's). Their approval and hours of PDH's are based on the level of engineering that the program contains and the length of the presentation. In order for our members/guests to participate in the PDH's they need to attend the program and make sure to sign in. Once the program is over the sign in sheet is sent to the PIE and certificates are then distributed within a few weeks of the program.



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.

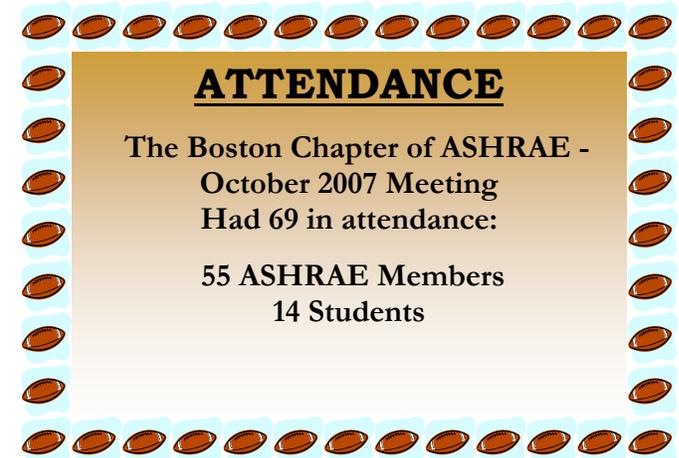
We have also begun research for what the Student Branches may be looking for from the Boston Chapter itself (what the Chapter can do for the College). Any info would be greatly appreciated.

ASHRAE's 2007-2008 Bachelor Engineering Technology Scholarship will be presented to Mr. Michael Kalin, a student at Wentworth Inst of Technology, by the Boston chapter during student activities night. Congratulations Michael!

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 for the 2008 Winter Meeting in New York. The Student Consultant 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! This month we have made it easier for you to donate funds to ASHARE Research. You can continue to print out the form and submit that directly to our Resource Promotion Chair, Darcy Carbone, or click on one of these links [donation over the internet](#), ASHRAE.org - Resource Promotion and make your donation online!

Please email the [Webmaster](#) directly from the site with any news or events to be published to the web. If you wish to place an employment ad on the site, it is \$300 per month.



What's New in our Chapter

By Pat Duffy

Meeting Minutes of the Board of Governor's
October 9, 2007 Meeting

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 will be going after 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 advice if required for energy saving tips and suggestions.

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

We're currently looking into having a tour of the Genzyme Center building that has received the Platinum LEED rating. We're looking into having the tour in April and we'll update you when we get more information.

This Year's Meetings

Anyone interested in seeing what the 2007-2008 season 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 once 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.

Roster & Product Guide

The Roster and Product guide will be distributed in the next month. Cheryl Rossini has once again put in a large effort to put together a great guide. If you are interested in helping out for the mailing, or if you have any questions, please contact Cheryl Rossini.

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

Chapter Members	Membership Promotion Points	Student Activities Points	Research Promotion Points	History Points	Chapter Organization Points	Chapter Technology Transfer Points	Chapter PAOE Point Totals
914	0	0	0	100	410	380	890



Historian’s Column

By Jim Liston

A TIMELINE OF THE HISTORY OF AIR CONDITIONING IN THE UNITED STATES – PART 1

<u>Year</u>	<u>Event</u>
1851	Dr. John Gorrie, physician/scientist/inventor, is granted Patent 8080 for an ice making machine that utilizes a compressor. Dr. Gorrie uses this device to cool malaria patients rooms at his hospital in Apalachi-cola, FL.
1902	While directing the Department of Experimental Engineering at Buffalo Forge Company, Willis Carrier designs an “Apparatus for Treating Air” that is to be installed at the Sackett-Wilhelms Lithographic & Printing Company in Buffalo, NY. The system was used to control temperature & humidity in the print-ing plant.
1904	The public debut of comfort air conditioning is made at the St. Louis Worlds Fair in the Missouri State Building. The system utilized 35,000 CFM of cool air to condition a 1,000 seat auditorium as well as various other spaces.
1906	The Larkin Administration Building in Buffalo, designed by Frank Lloyd Wright, is the first commercial office building designed to utilize comfort air-conditioning. The system utilizes carbon dioxide as the refrigerant.
1906	Stuart Cramer, owner of a textile mill in North Carolina, is credited with coining the term “air condition-ing”, using it in a patent claim he filed for a device to add humidity to air to reduce static electricity thereby making textile fabrics easier to work with.
1906	Edward Williams designs the first hospital air-conditioning system for Boston Floating Hospital. The system maintains wards at about 70 degrees F and 50% RH. Each of the hospitals five wards has a ther-mostat that is utilized to control zone reheats.
1907	Willis Carrier files a patent claim for an automatic control system based on his work into the “law of constant dew-point depression”. Previously, during his research into the science of moisture in air, he introduced the “hygrometric chart” in 1904, which was the forerunner of today’s psychrometric chart.
1907	Fredrick Wittenmeier of Kroeschell Brothers Ice Machine Company, designs air conditioning equipment for installation in dining and meeting rooms at the Congress Hotel in Chicago. The 150-ton refrigerating unit was in operation continually until 1941, and Kroeschell Bros. recently celebrated their 125 th anni-versary.

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.

Look for Part II in an upcoming issue....



Boston ASHRAE 2007 - 2008 Meeting Schedule

Date	Main Program	Speaker	PDH Credits	Meeting Manager	Location
September Tuesday, September 25, 2007	Opening Meeting!! Join us for a tour of the TD Banknorth Garden	N/A	N/A	Teri Shannon tshannon@dac-hvac.com	TD Banknorth Garden - Boston
October Tuesday, October 9, 2007	Fuel Cells Research & Promotion Night	Jim Horwitz	Approved for 1.5 PDH's	Jim Shiminski jshiminski@dac-hvac.com	Doubletree - Waltham
November Tuesday, November 13, 2007	Mechanical Design for Green Buildings AEE Joint Meeting / Student Night	Thomas Lawrence, Ph.D., P.E. - Distinguished Lecturer	Pending	Enrique de los Reyes er@energysystemsdesign.com	Doubletree - Waltham
December Tuesday, December 11, 2007	Efficient Chillers & Pumping Stations ASPE Joint Meeting	TBD	Pending	Fran Boucher francis.boucher@us.ngrid.com	Lantanas - Randolph
January Tuesday, January 8, 2008	Overview of ANSI/ ASHRAE/IESNA Standard 90.1 IES Joint Meeting / Past Presidents Night	Larry Spielvogel - Distinguished Lecturer	Pending	Bryan Hermann bmh@brplusa.com	Doubletree - Waltham
February Tuesday, February 12, 2008	BIM (Building Information Modeling) Green Roundtable Joint Meeting / Research & Promotion Night	TBD	Pending	Steve Bosland sbosland@eypae.com	Doubletree - Waltham
March Tuesday, March 11, 2008	LEED in Boston History Night	Jim Hunt, Office of Mayor Thomas Menino	Pending	Jim Shiminski jshiminski@dac-hvac.com	Doubletree - Waltham
April Tuesday, April 15, 2008	Product Show	N/A	Pending	Jeff Schultz, Bill Garvey jhs@brplusa.com, bgarvey@seicompanies.com	Lantanas - Randolph
May Tuesday, May 13, 2008	Installation of Officers	N/A	N/A	Jeff Schultz jhs@brplusa.com	TBD
June Monday, June 2, 2008	Golf Outing	N/A	N/A	Bill Garvey bgarvey@seicompanies.com	Poquoy & Halifax Country Clubs

2007 - 2008

BOSTON CHAPTER OFFICERS, BOARD OF GOVERNORS & CHAIRPERSONS

OFFICERS

President

Steven Rosen, Autodesk
603-621-3259

steven.rosen@autodesk.com

President-Elect

Jeffrey Schultz, BR+A
617-925-8242

jhs@brplusa.com

Vice President

Bryan Hermann, BR+A
617-254-0016 x295

bmh@brplusa.com

Secretary

Patrick Duffy, BR+A
617-925-8255

pjd@brplusa.com

Treasurer

William Garvey, SEi Companies
617-210-1711

bgarvey@seicompanies.com

BOARD OF GOVERNORS

2007 - 2010

Darcy Carbone
Stebbins-Duffy
781-246-0840

dcarbone@stebbinsduffy.com

Thomas Bryte
BR+A

617-254-0016

tdb@brplusa.com

Steve Nicholas
Air Industries
978-682-9993

snicholas@airinds.com

Joshua Benoist
Autodesk
603-206-9122

joshua.benoist@autodesk.com

2006 - 2009

William Garvey
SEi Companies
617-210-1711

bgarvey@seicompanies.com

Steve Bosland
Einhorn, Yaffee, Prescott
617-305-9831

sbosland@eypae.com

Jeff Scogland
R.T. Forbes
978-777-1220

scogland@comcast.net

2005 - 2008

Dan Cooke
RDK Engineers
857-221-5947

dcooke@rdkengineers.com

Patrick Duffy
BR+A

617-925-8255

pjd@brplusa.com

Jim Shiminski
DAC Sales
207-985-0873

jshiminski@dac-hvac.com

COMMITTEES

Attendance

Chris Kerr, Sebesta Blomberg
781-721-7220

ckerr@sebesta.com

Chapter Program

Jeffrey H. Schultz, BR+A
617-925-8242

jhs@brplusa.com

Chapter Technology Transfer

Darcy Carbone, Stebbins-Duffy
781-246-0840

dcarbone@stebbinsduffy.com

CRC Delegate

Steven Rosen, Autodesk
603-621-3259

steven.rosen@autodesk.com

CRC Alternate

Jeffrey H. Schultz, BR+A
617-925-8242

jhs@brplusa.com

Golf Outing

William Garvey, SEi Companies
617-210-1711

bgarvey@seicompanies.com

Greeting

Steven Tafone, William Berry
978-774-1057

stafone@berry.com

Historian

Jim Liston, William Berry
978-774-1057

jliston@berry.com

Honors & Awards

Jeffrey H. Schultz, BR+A
617-925-8242

jhs@brplusa.com

Membership Promotion

Daniel Cooke, RDK Engineers
857-221-5947

dcooke@rdkengineers.com

Nominating

Robert Persechini, RDK Engineers
617-345-9885 x322

rpersechini@rdkengineers.com

NorthEastAire

Teri Shannon, DAC Sales
207-985-0873

tshannon@dac-hvac.com

Product Show - April 2008

Jeffrey H. Schultz, BR+A
617-925-8242

jhs@brplusa.com

Professional Development

Steve Bosland, EYP
617-305-9831

sbosland@eypae.com

Publicity

Donna Harrington, Avant-garde
Graphics

508-339-0601

donna@a-ggraphics.com

Refrigeration

Steven Tafone, William Berry
978-774-1057

stafone@berry.com

Region 1

Garry Myers, P.E.
212-951-2815

garry.myers@ny.fk.com

Research Promotion

Darcy Carbone, Stebbins-Duffy
781-246-0840

dcarbone@stebbinsduffy.com

Student Activities

Joshua Benoist, Autodesk
603-206-9122

joshua.benoist@autodesk.com

Sustainability

Jim Shiminski, DAC Sales
207-985-0873

jshiminski@dac-hvac.com

&

Fran Boucher, National Grid
508-421-7299

francis.boucher@us.ngrid.com

Website

Steven Rosen, Autodesk
603-621-3259

steven.rosen@autodesk.com



ASHRAE RESEARCH

Investors
Who Care
About
Tomorrow

ASHRAE Chapter Contributors

Ms. Darcy Carbone
Mr. Bryan Hermann
Mr. Steve Rosen

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