



# NorthEastAire

ASHRAE - American Society of Heating, Refrigerating and Air-Conditioning Engineers  
Boston Chapter, Region 1 [www.ashraeboston.org](http://www.ashraeboston.org)

XXXXV No. 53

January 2007

Editor: Teri Shannon TEL: 207-985-0873

## 2006 - 2007 Officers



Darcy Carbone,  
*President*



Steve Rosen,  
*President-Elect*



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## MAIN MEETING

### Strategies for Reducing the Impact of Smoke Management

Featured Speaker: Raymond Grill,

Designing for atrium code requirements for smoke management exhaust systems can be difficult. While providing the code required exhaust can be difficult, it can be even more challenging providing the associated make-up supply air required from these systems. This session will describe how CFD techniques can be used to substantially reduce the impact of these systems upon the architectural design. Smoke management requirements within the Massachusetts State Building Code and the International Building Code, as well as recent changes in the latest edition of International Building Code, will also be reviewed.

### Meet the Speaker

Raymond Grill is an Associate Principal at Arup, and the Fire Business Area Leader of the Americas. Previously, he was a Senior Vice President of Rolf Jensen & Associates, and President of its Sako & Associates security consulting subsidiary. Prior to joining Rolf Jensen & Associates, Mr. Grill worked for a Fortune 100 corporation at the plant and corporate levels dealing with risk management, fire protection and property insurance issues. Mr. Grill has extensive experience in the development of comprehensive fire protection and life safety programs for all building types

Mr. Grill is the editor of the Detection and Alarm Section of the recently published Nineteenth Edition of the NFPA Fire Protection Handbook and is a chapter editor of the Handbook to the 2002 Edition of the National Fire Alarm Code. He has been published on a wide variety of fire protection related topics and regularly presents at industry related meetings such as the NFPA World Fire Safety Congress and Exhibition.

**DATE:** Tues., January 9, 2007

**MEETING MANAGER:** Jim Liston

**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  
Walk-ins \$40.00

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

**RSVP: Patrick Duffy— [pjd@brplusa.com](mailto:pjd@brplusa.com) by Fri., Jan. 5**

## This Month's Menu

Appetizer:

Wild Mushroom &  
Ricotta Raviolini

Dinner Salad:

Hobbs Brook Mixed  
Green Salads

Entrée:

Roast New York  
Sirloin

Dessert:

Cheesecake with  
Berries

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## PRESIDENT'S MESSAGE

By: Darcy Carbone

Dear Boston Chapter Members,

Happy New Year! Well the Holiday Season is over and it's back to business as usual. The New Year is a great time to make a fresh start and that's why most people like to make New Years resolutions. One resolution that would be greatly appreciated is attending an ASHRAE meeting or volunteering some of your time to a committee. Whatever resolution you may choose, I wish you good luck with staying on track with it.

We would like to thank the American Society of Plumbing Engineers (ASPE) for hosting last month's joint meeting with ASHRAE. The meeting included a presentation by Mr. Richard Moore on the Water Conservation aspects of LEED. We had another surprising turnout, with a total of 150 people of which 67 are members of ASHRAE. This meeting was accredited for 1.5 professional development hours (PDH) by the Practicing Institute of Engineering, Inc. This PDH is acceptable for New York State Professional Engineer continuing education requirements (other states will likely accept this PDH, but as requirements vary from state to state the validity of the certificate for other states must be confirmed by the recipient). We will continue applying for PDHs for future meetings.

This month's meeting will feature a presentation on designing for atrium code requirements for smoke management exhaust systems, given by Mr. Raymond Grill of Arup. The meeting has been approved for 1.5 PDH's. Please be sure to bring a business card with you if you wish to request them.

The Boston Chapter sponsors free dinner to all students who attend our meetings so please encourage your Co-op students, interns, and other engineering students to take advantage of this. Please also take the time to educate them about the long term benefits of membership in ASHRAE.

We are looking forward to another great turnout. I hope to see you all there.

Cheers,

Darcy Carbone  
President – Boston Chapter ASHRAE

## DECEMBER MEETING RECAP

By Darcy Carbone

Richard Moore gave an overview of the process used in achieving US Green Building Councils LEED Version 2.1 ratings in sustainable building design. This presentation focused on water efficient plumbing fixtures, rain water harvesting and grey water systems from geothermal bleed water & chilled water condensate. Water related credits were also covered in this workshop utilizing 4 certified projects and 8 registered projects that are currently in the CA project phase.



### ATTENDANCE

The Boston Chapter of ASHRAE -  
December 12, 2006 Meeting  
Had 150 in attendance:

67 ASHRAE Members  
81 Non-Members  
2 Students



### Editor's Note

By Teri Shannon

Effective with this issue, there will be new rates for ads. Want ads only will be accepted and should be in Word format. **The deadline for the February newsletter is January 26th.** Company logos can be included with your ad; these need to be provided in either a .jpg or .gif file format. The cost is \$200 per month for 1/4 page; \$400 per month for 1/2 page. A check should be submitted with your ad, made payable to "ASHRAE - Boston Chapter", and should be sent to:

#### ASHRAE

Attn: Teri Shannon  
c/o DAC Sales  
P.O. Box 576

W. Kennebunk, ME 04094

E-mail: [tshannon@dac-hvac.com](mailto:tshannon@dac-hvac.com)

If you have any questions, please feel free to contact me at 207-985-0873.



**Boston ASHRAE**  
**Sustainability Committee**  
**(BASC)** *By Jim Shiminski*

**Upcoming Local Events:**

**Boston Society of Architects forms new network for Architects and Engineers**

How can architects and engineers implement a more collaborative project-delivery process?...more effectively share details on project successes and project failures?... identify building elements in which intensive collaboration is necessary and then develop interdisciplinary educational programs that serve both professions? How can we extend an A/E network to include all related industry disciplines? Re-energized by the rapid advances in and commitment to sustainable design, collaboration among disciplines is increasingly critical to the production of high-quality design.

These types of questions and desire for collaboration have spurred the creation of a new network of architects and engineers scheduled to meet for the first time at 8:00 am on January 8, 2007 at The Architects Building.

All interested architects and engineers are invited to join us; there is no charge, but registration is required. RSVP to [bsa@architects.org](mailto:bsa@architects.org)/617-951-1433 x221 no later than 4:00 pm on January 4, 2007.

Date & Time: January 8, 2007  
 Location: The Architects Building  
 Register by: 4:00 pm, January 4, 2007 to [bsa@architects.org](mailto:bsa@architects.org)

Questions?: Nick Ferzacca, PE, LEED @ (617) 482 6281 or [nferzacca@maricorgroup.com](mailto:nferzacca@maricorgroup.com)

**Dinner & Show:**

AEE New England Chapter will be hosting dinner at the Double Tree Waltham and showing of the movie, **The Inconvenient Truth** on **Wed., February 7** from **7:00 PM - 8:35 PM**.

AEE will have a Scientist present who can answer questions for about 10 - 15 minutes following the movie. The goal is to answer any basic questions as well as give the Scientist an opportunity to update us on any new scientific evidence that may not have been available since the movie went into production....but the primary goal is to answer questions. **Cost: \$40 for Dinner and Movie**

**Green Round Table / Regional USGBC Event List**

January Roundtable: "**State of the State**"  
 When: Wednesday, January 31st  
 Where: Federal Reserve Bank of Boston  
 The New England Room  
 600 Atlantic Avenue - Boston, MA

For venue security reasons, we **MUST** know if you are planning to attend this event. Please RSVP at least 24 hours in advance and bring a picture ID to the event!

Please join Green Roundtable in our annual discussion forum to review the 2006 highlights of local green building efforts in the state of Massachusetts and share goals for 2007. Whether you develop, design, finance, occupy or maintain property, or work in policy and regulation, we invite you to share what you're doing & to learn what others are doing.

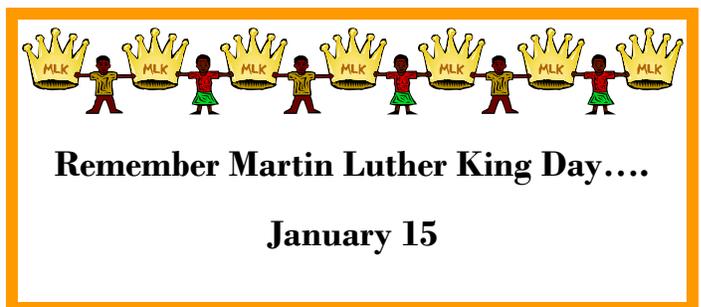
In this unique format, participants will be distributed into smaller representative groups to share their responses to the following questions: 1. What was the particular focus of your green effort in 2006? 2. What were the barriers and opportunities you encountered? 3. How did you achieve your goals? 4. What were your key "lessons learned"?

**USGBC LEED Trainings**

- Tuesday, January 23rd LEED-NC Training
- Thursday, January 25th LEED-EB Training

To RSVP for GRT events, email: [admin@greenroundtable.org](mailto:admin@greenroundtable.org)

To sign up for USGBC Trainings, go to: [www.usgbc.org](http://www.usgbc.org)





## Student Activities

By Jim Shiminski

### Future Engineers Scholarship Program 2008

We are very pleased to announce that we will be able to offer a minimum of 10 scholarships at \$2,000 each to local students interested in pursuing a collegiate education in engineering. The scholarships will be offered for the school year starting September 2008.

Scholarship Qualification - The scholarship will be open to any High School Student that has been accepted to attend a college engineering program, any engineering major, associate or bachelor degree and any first or second year College Student currently enrolled for the next term in an engineering program, any engineering major, associate or bachelor degree. All student members of Boston ASHRAE student groups are eligible for the scholarship. The Student must be from New England.

Scholarship Application - A copy of the Scholarship Application will be distributed via E-mail to all members of Boston ASHRAE. We expect to have the application form available by February of 2007. We also hope to have the Application available on the Boston ASHRAE website. We encourage all Boston ASHRAE members to pass the application along to anyone in their personal network to who meets the criteria to participate.

If you have any questions, please feel free to e-mail me at [jshiminski@dac-havc.com](mailto:jshiminski@dac-havc.com).



## 2007 Roster & Product Guide

By Cheryl Rossini

### **Get your Line Card into the ASHRAE Boston Chapter Roster and Product Guide!**

This year's Boston Chapter Roster and Product Guide will be assembled through the Fall and Winter, with a projected distribution of February 1st. I will be heading up this effort along with a group of volunteers. If you wish to volunteer to help with the many tasks associated with assembling this publication, please contact me via email at [crossini@dac-hvac.com](mailto:crossini@dac-hvac.com).

I encourage every Boston Chapter member to take a few minutes to update your data with ASHRAE. This is very important since the data we publish comes directly from the Society database. Have your member number and pin handy and visit [www.ASHRAE.org](http://www.ASHRAE.org) and click under membership resources. If you have misplaced your member number or pin, call ASHRAE at 800-527-4723.

Please note: Each member will appear on the Roster at the address listed with Society as 'preferred mailing address.'

If you are a past Roster and Product Guide advertiser, we will contact you soon to invite you to renew and update your ad. All new advertisers are invited to contact me via email at [crossini@dac-hvac.com](mailto:crossini@dac-hvac.com) and I will provide you with all of the information you'll need to be included in the publication.

**Ads are due by January 15!!**



## Membership Promotion

By Dan Cooke

Boston Chapter member Sarah Maston was approved for advancement to Member grade during the November 15th meeting of the Admissions and Advancement Committee. If you have been working in the HVAC industry for several years and are designated as an Associate Member, you may be eligible for advancement to Member grade. Any licensed PE's who are still at the Associate grade level should upgrade. Send an e-mail to my attention if you would like assistance in applying for advancement, or if you have any questions on ASHRAE membership ([dcooke@vanderweil.com](mailto:dcooke@vanderweil.com)).

Members can verify their personal information (preferred mailing address, e-mail, etc.) as well as pay yearly membership dues through the ASHRAE Society website ([www.ashrae.org](http://www.ashrae.org)). Please take a moment to make sure that your membership dues are up to date. Members who are more than 6 months delinquent on their Society Dues will be cancelled.





# CCTC - TEGA Article

By David Klee

## Technology is Not Enough

An Excerpt from an ASHRAE press release dated December 12, 2006.  
Internet link: <http://www.ashrae.org/pressroom/detail/16073>

Guidance for building design engineers and owners that will result in buildings cutting their energy usage in half by 2010 currently is being developed by leading organizations in the building environment industry.

Achieving that goal will require more than simply substituting or adopting new technologies and systems. It will acquire changes in design practice in which the design team converts energy strategies into building plans, sections, details and construction.

An update on some of the measures that have been demonstrated to yield significant energy reductions will be presented at ASHRAE's 2007 Winter Meeting in a seminar, Achieving 50% and Beyond Approach to Net Zero Energy Use in Buildings Part 1. It takes place from 7:45-9:15 a.m. Monday, Jan. 29, and is followed by Part 2 from 10:45 a.m.-12:15 p.m.

The guidance is being developed by ASHRAE in cooperation with the American Institute of Architects, the Illuminating Engineering Society of North America and the U.S. Green Building Council, through a series of Advanced Energy Design Guides for the commercial building sector.

John Mitchell, P.E., is chairing a scoping committee studying ways to achieve building designs as close as is feasible to net zero energy use, defined as "a building

which, on an annual basis, uses no more energy than is provided by the building's on-site renewable energy sources." This study will provide the basis for the development of Advanced Energy Design Guides to go 50 percent and beyond minimum standards for energy use.

"The goal of a 50 percent approach to net zero energy use, on either a site or source basis, is feasible," he said. "There are no apparent technological barriers to achieve the desired energy reductions but aggressive energy conservation strategies and energy generation are needed."

The scoping study recently was completed and identified measures that achieve significant energy savings. Some of the measures identified are:

- Improved daylighting and electrical illumination systems
- Reduction of parasitic power requirements in air and water distribution systems
- Separate treatment of ventilation and internal thermal loads
- Improved delivery of conditioning to where it is needed
- Improved part load performance of HVAC components
- Water loop heat pump systems.

Information related to the Advanced Energy Design Guide series can be found at [www.ashrae.org/aedg](http://www.ashrae.org/aedg).



### Presidential Award of Excellence

#### Boston Chapter - 2006 - 2007

Chapter Members	Membership Promotion Points	Student Activities Points	Research Promotion Points	History Points	Chapter Organization Points	Chapter Technology Transfer Points	Chapter PAOE Point Totals
911	685	255	0	275	885	665	2,765



## What's New in our Chapter

By Bryan Hermann

## Meeting Minutes of the Board of Governor's December 12, 2006 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:

### Meeting Changes

The January meeting speaker has changed. Ray Gill will be presenting the same topic of Smoke Management. PDH approval in being processed and we will inform everyone when we know the values. We hope you enjoy the meeting.

### Meeting Payments

The Chapter is still researching other methods of implementing a credit card payment into the payment methods for attending the meetings. The Chapter had tried the credit card machine previously, but due to slow processing, the Chapter had to abandon the idea because of the delay in the check-in process. We will inform everyone if we are able to work out the details and ensure a fast processing machine.

### Scholarships

The "Future Engineers Scholarship" will be given away once again this year. The fundraising for the scholarship was even larger than last year, which may allow additional scholarships to be given out. Jim Shiminski and Cheryl Rossini are once again in charge of the process. If you have any questions, or if you are interested in helping out the cause, please feel free to contact them. Once the information has been released, please keep in mind that the P.O. Box has changed from last year's application, so please ensure that you are sending the information to the right address.

ASHRAE has a Design Competition that the Chapter will be distributing information on shortly. Keep your eyes open for the info.

### PDH Credit

We will now be requiring a business card for all attendees requesting PDH credit. This helps eliminate confusion and limits errors in the application process that we have been facing. Please be prepared to provide a card upon filling out the paperwork. Future meetings that will issue PDH credit will be at a cost to all non-members that request the credit. Each certificate will cost \$15 for each non-member per meeting. Members will be given credit at no additional cost.

### ASHRAE Research Promotion

The Boston Chapter of ASHRAE is proud to announce that we will once again receive the "Full Circle Award". This award is given to a Chapter when each Chapter Officer donates \$100 or more towards ASHRAE Research Promotion.

### Sustainability Committee

The Sustainability Committee has created multiple subcommittees that anyone can be involved with. Subcommittees include education, "who's-who" in sustainability, and governmental relationships. The Committee will also send out a questionnaire to the members soon asking what you would like to see the educational subcommittee teach to the ASHRAE members. We encourage all members interested in joining the committee or interested in helping out to join, please contact a Board member or Committee Chair Jim Shiminski for additional information.

### Winter Meeting in Dallas, TX

The Boston Chapter of ASHRAE will have a number of officers and committee members at the national meeting. If you attend the winter meeting and run into them, please make sure you stop by and say hello.

### New item for the meetings

The Boston Chapter of ASHRAE will now begin 50-50's. The fee for the 50-50's is completely optional and the money will go toward Research & Development. This should start with the January meeting. If anyone has any questions please feel free to ask.

### Facilities Expo

Past President Steve Tafone will represent the Boston Chapter of ASHRAE at the Facilities Expo. If you attend the facilities expo and run into the booth, please make sure you stop by and say hello.

### Upcoming Meetings

The March meeting may have a surprise speaker, the details are still being worked on and we will reveal the speaker when everything has been completed.

The April Meeting may change to be involved with sustainability. We will keep everyone posted when we have more information to distribute.

### Chapter Website

The website will be going through some changes within the next couple of months. We have a new web designer on board. We will update everyone on new information as it develops. If any Chapter members have any requests or ideas for the new website, please feel free to contact one of the Board members with your ideas.

Anyone interested in assisting with the website can contact Steve Rosen, George Hardisty, or Teri Shannon for additional information.

### 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](http://www.ashrae.org) or contact our Membership Chairperson Dan Cooke for more membership information.

### Roster & Product Guide

The Roster and Product guide was potentially going to CD this year, but due to security issues that cannot be resolved in time, the Chapter will proceed with the paperback version again this year. We'll keep you informed as things develop. If you are interested in helping out, or if you have any questions, please contact Cheryl Rossini.

**See you at the next meeting!**



## Historian's Column

By Bob Barstow

Continuing from “the old days”, in the early 50s when I started, I figured I would need to get some education in Heating and Ventilating. So, I looked around and found no school had anything in this area, not M.I.T, not Northeastern, not Wentworth, and not regional technical schools. The one exception was Franklin Institute on Berkeley Street. (It's still there.) The course was three years at night and was called Heating and Ventilating. There wasn't much air conditioning at that time. (The Empire State Building was built in the 30s without air conditioning.) The engineers didn't know much about it. If you look at air conditioning drawings from that era, you won't find any refrigerant piping shown, let alone pipe sizing. It was all left up to the contractors. The air conditioning systems were mostly designed by manufacturers and contractors. One of the early projects was the Statler Hotel and Office Building. (Now the Park Plaza) If I recall correctly, it was designed and installed by York.

Anyway, back to Franklin Institute, I had four instructors. The senior man was P.A.L. Foulds. He was an old man then. His son and grandson went into HVAC. The second instructor was Amos Kent, who was ASHRAE president in 1965-1966. He was a principal at Buerkel & Co. and, at one time, he was head of the Board of Registration of Professional Engineers. The third instructor was Frank Butler, a well-known consulting engineer, who was ASHAE president in 1959-1960. The fourth instructor was Leo Crowley, a respected consulting engineer, whose P.E. number was 39. His assistant was Ray Borden who was ASHVE president in 1950-1951. After finishing at Franklin I became a perpetual night school student and received a degree in Business Administration from Boston University.



## Research Promotion

By Enrique de los Reyes

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. All of the Officers joined me in personally donating at least \$100 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. Another way that people can donate using a credit card is via the internet at [https://www.ashrae.org/aboutus/resource\\_promotion](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.

We will be starting a raffle at the January meeting to assist in raising funds.

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 \$10,000 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 1/2 of our members would suffice to beat the goal that ASHRAE has set for our Chapter).

Thanks again!



## A Message from the Webmaster

By George Hardisty

Check the web site regularly as it will keep you up to date on all that is going on in the chapter and what is happening at the board meetings.

If anyone is interested in being a sponsor of the site, please contact me at [gmh@brplusa.com](mailto:gmh@brplusa.com). The cost is \$300.00 per year and includes a link to your web site, posting of a line card, and a random posting of a logo on the home page. It is a great value.

Please feel free to contact me if you have any suggestions or new ideas.



**ASHRAE  
Research**

1791 Tullie Circle, NE • Atlanta, Georgia 30329-2305 ☎ 404-636-8400 • Fax 404-321-5478 • <http://www.ashrae.org>

Ronald W. Swarthout, P. E.  
Vice Chair, Region I  
Research Promotion  
Reply to: 921 Forest Road  
Endwell, NY 13760  
607-754-1590  
[rswarthou@cs.com](mailto:rswarthou@cs.com)

## **Region 1 Dinner Dallas Winter Meeting**

**Date:** Monday, January 29, 2007

**Location:** YO Ranch Steakhouse Restaurant, 702 Ross Avenue at Market Street, Dallas, Texas  
“One of Dallas’s premier dining establishments and most extensive selection of wild game”

**Time:** 6:00 PM Meet at the Adam’s Mark Hotel Lobby  
(5 minute train ride from Adam’s Mark Hotel)  
6:30 PM Arrive at Steakhouse for cocktails – cash bar  
7:00 PM Dinner

**Menu:** Starters  
House Salad with garlic cilantro vinaigrette or Seafood Bisque Soup

Choice of Entrees:  
Prime Aged Beef Filet Mignon  
Grilled Salmon Filet with a bruschetta butter  
Sautéed Chicken Breast with a wild mushroom brandy sauce

Desserts  
Jack Daniels Pecan Pie or White Chocolate Macadamia Nut Bundt Cake  
w/ raspberry sauce

**Cost:** \$40.00 per person received before January 22, 2007 -- \$45.00 per person after January 22

**Reservations with payment:** must be received by Monday, January 22, 2007

Make checks out to ASHRAE – Region 1 Fund & mail to Ronald Swarthout at the above address

Name \_\_\_\_\_ Menu Choice \_\_\_\_\_



## 2006 – 2007

### BOSTON CHAPTER OFFICERS, BOARD MEMBERS AND CHAIRPERSONS

#### OFFICERS

OFFICE / OFFICER	PHONE	E-MAIL
President: Darcy Carbone, Sebesta Blomberg	781-721-3949	dcarbone@sebesta.com
President-Elect: Steve Rosen, Autodesk	603-621-3259	steven.rosen@autodesk.com
Vice President: Jeffrey H. Schulz, BR+A	617-925-8242	jhs@brplusa.com
Secretary: Bryan Hermann, BR+A	617-254-0016 x295	bmh@brplusa.com
Treasurer: William Garvey, SEI Companies	617-210-1711	bgarvey@seicompanies.com

#### BOARD OF GOVERNORS

NAME	YEARS	PHONE	E-MAIL
Enrique de los Reyes, P.E., Energy Systems Design	2006 - 2009	508-276-1102	er@energysystemsdesign.com
William Garvey, SEI Companies	2006 - 2009	617-210-1711	bgarvey@seicompanies.com
Steve Bosland, PE, Einhorn Yaffee Prescott	2006 - 2009	617-305-9831	sbosland@eypae.com
Jeff Scogland, R.T. Forbes	2006 - 2009	978-777-1220	scogland@comcast.net
Dan Cooke, RG Vanderweil	2005 - 2008	617-423-7423	dcooke@vanderweil.com
Patrick Duffy, BR+A	2005 - 2008	617-925-8255	pjd@brplusa.com
Jim Shiminski, DAC Sales	2005 - 2008	207-985-0873	jshiminski@dac-hvac.com
Bryan Hermann, BR+A	2004 - 2007	617-254-0016 x295	bmh@brplusa.com
John Swift, Cannon Design	2004 - 2007	617-724-5440	jswift@cannondesign.com

#### COMMITTEES

<u>COMMITTEES</u>	<u>CHAIRPERSONS</u>	<u>TELEPHONE</u>	<u>E-MAIL</u>
Attendance	Patrick Duffy, BR+ A	617-925-8255	pjd@brplusa.com
Chapter Program	Steve Rosen, Autodesk	603-621-3259	steven.rosen@autodesk.com
Chapter Technology Transfer	Dave Klee, York / Johnson Controls	781-232-0611	dave.j.klee@jci.com
CRC Alternate	Steve Rosen, Autodesk	603-621-3259	steven.rosen@autodesk.com
CRC Delegate	Darcy Carbone, Sebesta Blomberg & Associates	781-721-3949	dcarbone@sebesta.com
Golf Outing	William J. Garvey, SEI Companies	617-210-1711	bgarvey@seicompanies.com
Greeting	Steven Tafone, William Berry & Sons	978-774-1057	stafone@berry.com
Historian	Bob Barstow, Barstow Engineering	617-262-0420	barstoweng@comcast.net
Honors & Awards	Robert Persechini, RDK Engineers	617-345-9885 x322	rpersechini@rdkengineers.com
Membership Promotion	Daniel Cooke, Vanderweil Engineers	617-423-7423	dcooke@vanderweil.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, P.E., Einhorn Yaffee Prescott	617-305-9831	sbosland@eypae.com
Publicity	Kristen DelloRusso	617-962-2933	kristen@cruiseline deals.com
Refrigeration	Steven Tafone, William Berry & Sons	978-774-1057	stafone@berry.com
Region I	Garry Myers, PE	212-951-2815	Garry.Myers@ny.fk.com
Research Promotion	Enrique de los Reyes, P.E., Energy Systems Design	508-276-1102	er@energysystemsdesign.com
Student Activities	Jim Shiminski, DAC Sales	207-985-0873	jshiminski@dac-hvac.com
Website	George M. Hardisty, P.E., BR+A	617-254-0016 x308	gmh@brplusa.com

# Boston ASHRAE 2006 - 2007 Meeting Schedule

Date	Main Program	Speaker	Certificate for PHD's	Meeting Manager	Location
Friday, September 15, 2006	Casino Night – Research & Promotion Fund Raiser	N/A	N/A	Teri Shannon	Lantana's - Randolph
MEMBERSHIP & RESEARCH PROMOTION NIGHT					
Tuesday, October 10, 2006	Chilled ceilings, floors and beams description and operating fundamentals (each are unique)	Stanley A. Mumma, Ph.D., P.E., ASHRAE Fellow – Distinguished Lecturer	Approved for 1.0 PDH	Jason Peterson	DoubleTree - Waltham
JOINT MEETING NAWIC STUDENT NIGHT					
Wednesday, November 1, 2006	Chapter Sponsors Night	N/A	N/A	Steve Rosen	DoubleTree - Waltham
JOINT MEETING AEE					
Tuesday, December 12, 2006	How to maximize your LEED points for mechanical and plumbing	Richard Moore an Environmental Consultant	Approved for 1.5 PDH	John Swift	Lantana's - Randolph
JOINT MEETING ASPE, STUDENT NIGHT					
Tuesday, January 9, 2007	Smoke Management Concepts in the IBC, and chair of Transaction 10 titled Evacuation Analysis Methods for Mass Transit Facilities and Tunnels.	Raymond Grill	Approved for 1.5 PDH	Jim Liston, P.E.	DoubleTree - Waltham
HISTORY, PAST PRESIDENTS NIGHT					
Tuesday, February 13, 2007	<i>"Integrated Building Design"</i>	ASHRAE Distinguished Lecturer Charles Gullede	In Progress	Dan Cooke	DoubleTree - Waltham
STUDENT					
Tuesday, March 13, 2007	Industrial Ventilation ASHRAE 62.1	TBD	In Progress	Enrique de los Reyes, P.E.	DoubleTree - Waltham
STUDENT					
Tuesday, April 10, 2007	Air to Air heat exchangers, heat pipes and plate & frame heat exchangers	TBD	In Progress	Jim Shiminski	DoubleTree - Waltham
MEMBERSHIP & RESEARCH PROMOTION NIGHT					
Tuesday, May 8, 2007	Installation of Officers		N/A	Steve Rosen	Naked Fish - Waltham
SOCIAL EVENT					
June 2007	<a href="#">Golf Outing</a>		N/A	William J. Garvey	Country Club of Halifax & Poquoy Brook Golf Course
SOCIAL EVENT, RESEARCH PROMOTION NIGHT					



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