



NorthEastAire

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

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November 2006

Editor: Teri Shannon TEL: 207-985-0873

2006 - 2007 Officers



Darcy Carbone,
President



Steve Rosen,
President-Elect



Jeff Schultz,
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Table of Contents

President's Message.....	2
Editor's Note.....	2
Sustainability Committee....	2
Student Activities.....	3
Membership Promotion.....	3
October Meeting Recap.....	4
Roster & Product Guide.....	5
Region 1 Contact List.....	5
BOG Meeting Minutes.....	6
PAOE.....	6
Photo Gallery.....	7
CTTC - TEGA Article.....	7
Research Promotion.....	8
Sustainability Article.....	8
Webmaster's Note.....	8
Officer & Committee List....	9
Meeting Schedule 06-07....	10
Contributor Listing.....	11

MAIN MEETING

TRADE SHOW & RAPID FIRE PRESENTATIONS

Annual Joint Meeting with AEE - Chapter Sponsors Night

The evening begins with a mini trade show featuring valued New England AEE Chapter Sponsors. The trade show provides an opportunity for guests to learn more about these companies and to have any questions answered in a relaxed, informal setting.

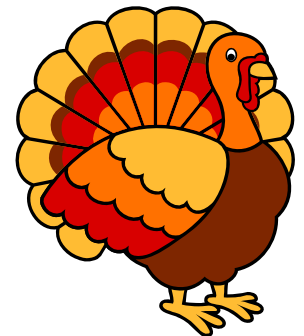
Following dinner, each Chapter sponsor provides a brief introduction of themselves, their company and their product and/or services.

AEE will also be honoring ten college engineering students who earned AEE scholarships for this academic year.

Please RSVP as this meeting is usually sold out!

FMI: Visit http://aeenewengland.org/nov_06meet.htm

DATE:	Wed., November 1, 2006								
MEETING MANAGER:	Steven Rosen								
MEETING PLACE:	DoubleTree Hotel, Waltham Joint Meeting with AEE								
TIME:	4:30 – 6:30 p.m. – Social Hour/ Mini Trade Show 6:30 – 7:15 p.m. – Dinner 7:15 – 8:30 p.m. – Main Program								
COST:	<table> <tr><td>Members that RSVP</td><td>\$35.00</td></tr> <tr><td>Members that do not RSVP</td><td>\$45.00</td></tr> <tr><td>Walk-ins</td><td>\$45.00</td></tr> <tr><td>Students</td><td>Free</td></tr> </table>	Members that RSVP	\$35.00	Members that do not RSVP	\$45.00	Walk-ins	\$45.00	Students	Free
Members that RSVP	\$35.00								
Members that do not RSVP	\$45.00								
Walk-ins	\$45.00								
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. DoubleTree Hotel is the first driveway on the left.								
RSVP:	Patrick Duffy— pjd@brplusa.com by Fri., Oct. 27								



**Happy
Thanksgiving!!**

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PRESIDENT'S MESSAGE

By: Darcy Carbone

Dear Boston Chapter Members,

October's meeting had a very impressive attendance of 110 people. Among those who attended were 6 Boston Chapter Past Presidents. I want to thank all of them along with all Boston Chapter Members, NAWIC members (National Association of Women in Construction) and all guests that attended our meeting. I would like to extend a special thanks to Garry Meyers, our District Regional Chair, and the Distinguished Lecturer, Professor Stanley A. Mumma PhD., P.E. Professor Mumma gave an informative presentation based on the fundamentals of chilled ceilings, floors and beams. For those of you that could not attend the meeting, please see the meeting recap in this month's newsletter. There you can find follow up questions from attendees who emailed Professor Mumma and his responses. If you have any questions that you would like to ask Professor Mumma regarding this topic, you can email him at sam11@psu.edu.

There was also an astonishing turnout at the first official meeting for the Sustainability Committee. There were 22 people who attended this meeting. Jim Shiminski and Cheryl Rossini, who are co-chairing this committee, are very excited with the response and enthusiasm people showed. Several people who attended were not ASHRAE members, but want to jump on board because they are serious in making a difference in the future of our world. Everyone there had different motivations in why they wanted to participate in pursuing green building design but the fundamental principles remain the same. As Terry Townshend addressed in his speech back in August in QUEBEC CITY, QC, Canada, "We must have a sense of collective purpose," he said. "We are the pioneers in the reawakening of our Society. We are responsible for achieving a sustainable future."

This month is our annual joint meeting with the Association of Energy Engineers (AEE). I have been told that this is one of their most popular meetings. The theme is Chapter Sponsor Night, which will include a mini-trade show where their sponsors will have an opportunity to present their services.

If you are a new member or just coming back, please introduce yourself to me or someone on the board. We will be happy to help you out or answer any questions you may have.

Cheers,

Darcy Carbone
President – Boston Chapter ASHRAE



Sustainability Committee

By Jim Shiminski

The first meeting of the Boston ASHRAE Sustainability Committee (BASC) was held on Tuesday, Oct. 10. We had a very promising turnout with over twenty people participating in the kickoff meeting.

The focus of the first meeting was to establish direction for the group and look at possible goals and objectives. To help better define our mission, we would welcome further input. Please feel free to e-mail any goal that you think is worthwhile for the BASC to achieve. Include any action items that can make this goal possible. Multiple goals and actions are welcome. We invite all ASHRAE members to share their ideas with the group. E-mail to: jshiminski@dac-hvac.com

The next meeting is scheduled for 5 PM on Tuesday, 11/7 at the Doubletree, Waltham. In our November meeting, we will sort through possible goals and set a course of action for the committee.

I hope to see you there!

Jim Shiminski



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 December newsletter is November 27th.** 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

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



Student Activities

By Jim Shiminski

Yo! ASHRAE Video Promotes Engineering as Career

ATLANTA - The hottest new rap video can't be seen on MTV, BET or even VH-1 - it's on ASHRAE.org.

That's right - "rap video." Not something you would think that the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) had the 4-11 about, right?

"If ASHRAE and our industry are going to be successful in promoting engineering and HVAC&R as career options, then we have to reach out to young people in a way that is entertaining and interesting to them," Ron Johnson, chair of ASHRAE's Student Activities Committee, said. "Hence, this video."

ASHRAE: Licensed to Chill features a hot soundtrack accompanied by interviews with young members highlighting the importance of the HVAC&R industry to the world; the diverse and creative opportunities related to engineering as a career; and the difference the building industry makes related to sustainability. "The video drives home the message that our industry truly engineers the world we live in, and that young people don't want to miss out on the chance to be a part of that," he said.

The video will be made available to middle and high schools that seek information about careers in engineering from ASHRAE. It also is available in several formats suitable for downloading at www.ashrae.org/chill. (From Ron Johnson, chair of ASHRAE's Student Activities Committee)

Feel free to follow up with Jim Shiminski (jshiminski@dac-hvac.com) for a complete version of the video. And oh by the way, show it to your kids. They'll think you're cool (at least for a while).



"Education is the best provision for old age."

Aristotle



Membership Promotion

By Dan Cooke

How does my company benefit from employee's membership in ASHRAE? (Source: www.ashrae.org/members/page/592)

Assurance and Credibility

ASHRAE research, standards and publications transfer current technology and accepted practice to the worldwide HVAC&R industry. Through their ASHRAE memberships, employees have technical information available to them that is universally recognized as authoritative and reliable.

Industry Participation

Through volunteer service on nearly 200 technical committees and standards project committees, ASHRAE members influence the direction of HVAC&R technology. Through their participation on committees, volunteers contribute to an organization recognized internationally for advancing technology. By working with other professionals from around the world, ASHRAE members:

- Create industry standards and recommended procedures and guidelines issued by ASHRAE. ASHRAE is a recognized standards writing body of the American National Standards Institute. ASHRAE's more than 80 standards serve as the basis of testing and design practice around the world.
- Development of research. ASHRAE has under contract at university, government and private laboratories some 75 active research projects with a combined value of more than \$8 million.
- Development of ASHRAE Handbook chapters.

The efforts of your employees in ASHRAE help keep your company on the edge of what is happening in the HVAC&R industry.

Professional Growth

ASHRAE provides unique opportunities to develop communication, management and leadership skills. Because the Society is a volunteer-driven organization, HVAC&R companies cannot turn to a better source than ASHRAE for human resource development. Aside from education benefits, ASHRAE offers countless opportunities for developing potential through volunteer work on ASHRAE committees or in one of ASHRAE's more than 150 chapters around the world. Benefits of employees' participation include:

- Strengthening leadership skills
- Improving technical skills and the ability to work on technical issues
- Networking
- Accessibility to resources
- Self development and sharing of ideas

ASHRAE is the forum where HVAC&R professionals come together to ask questions, share ideas and put their ideas to the test of peer criticism.

OCTOBER MEETING RECAP

By James Liston, P.E. and Darcy Carbone

Last month's meeting was a discussion on integrating chilled ceilings, floors and beams into building design in conjunction with dedicated outside air systems. The presentation by Distinguished Lecturer Stanley A. Mumma PhD., P.E. was very informative. Professor Mumma discussed integrated systems performance, controlling condensation, capacity considerations and control requirements. The turnout was 110 and included ASHRAE Members, ASHRAE local Student Chapters, NAWIC and non-members. This meeting received accreditation for 1.0 professional development hours.

Here are some questions that were generated from some of the attendees of Mr. Mumma's presentation, which were e-mailed to him, along with his answers:

Question 1: I noted that the chilled beams had no filters in them and you commented on same. I also noted the dirt streams you pointed out in the slide. This leads me to ask the question of fouling. This room dirt is obviously being entrained through the chilled water coil(s) unfiltered. Is there a concern of excessive fouling? Do the high velocities through the coils act as "self cleaners" and keep fouling to a minimum or do these coils need regular cleaning?

Answer: You are correct they do not have filters, and the fine particles from the room were plating out on the white surfaces. The air velocity through the coils is not high. I am not aware of concern about excessive fouling, and have not observed it in our installations. The room air grill is an easy drop away for access, and periodic cleaning should be done of the coils and the surfaces shown (but you know better than I about this actually occurring--clearly Penn State is not taking care of it).

Question 2: This question regards the control of a DOAS. You seemed to be stressing the advantage of this system from a humidity control standpoint. What I was trying to envision is what happens if you are attempting demand control ventilation with this type of system. We are always trying to find ways of reducing energy use and load for our customers and one such way is to reduce the amount of outside air you need to heat/cool without effecting air quality or productivity. Demand control ventilation (DCV) is one way to handle this, but with the DOAS you describe, how do you handle control. There could be times where you want to bring in more outside air to lower humidity, but the CO2 levels are low enough to not warrant it. Have you run into this or looked into this at all? Is this addressed in some of the DOAS articles?

Answer: DCV is something I do not advise for DOAS. The risk of losing building pressurization is just too great. There is some fan savings, but it is already only supplying about 20% as much air as a VAV system, so the savings does not justify the extra first cost of VFD's, the CO2 monitoring equipment, flow measuring equipment and extra control points/software. In addition, with an 80% effective enthalpy wheel, the OA load is reduced by 80% compared to conventional systems supplying the same OA. And VAV systems always require more--often over 70% more--to meet the critical space requirements. Frankly, the only justification I have for DCV with DOAS is to minimize terminal reheat when a cold air supply is used. And this is only a factor in high occupancy density spaces. Yes, you will find a number of articles on demand controlled ventilation on the doas-radiant web site. As you probably know, at the moment no one knows how to even do DCV with the latest version of Std 62.1-2004 which requires both a floor component and an occupant component to the ventilation. DCV for VAV systems is a subject of current research effort by our group.

Question 3: This question is regarding one of the slides you had. There was a slide you put up that was to show "flexible zoning" of the chilled ceiling panels. What bothered me was that these panels are supposed to be back loaded with insulation to reduce heat pick-up from plenum. Was this photo just a marketing photo with the insulation removed or part of your lab study at Penn State? Is there supposed to be insulation added to that installation? The way the photo was shown, it would do a great job of chilling the plenum. You didn't elaborate on this photo, only to say that it allowed flexible zoning.

Answer: Yes, if the panels are installed in a plenum, they must be back loaded with insulation for both thermal and acoustical reasons. However, if there is a high enough ceiling, installing the panels below the ceiling free hanging--like pendant lights, allows the upper surface to contribute almost as much to the cooling effort as the bottom surface, thus reducing the gross area of panels and first cost!

Question 4: What I thought I heard you say was that you saw no benefit to displacement ventilation over that of supply air at the ceiling, and you had data to back this claim up. As I understand it, there are significant benefits from displacement ventilation due to its higher ventilation effectiveness in more rapidly diluting and removing air contaminants generated in the space. Does your data address this issue, or is your data based on achieving thermal comfort?

Answer: I have no great technical problem with true displacement ventilation--i.e. 100% OA introduced near the floor. As you can well understand, however, that air must be much warmer than that introduced through high induction ceiling diffusers. This increases the fan energy, first cost of the OA system and the first cost of the parallel systems.

Our industry uses DV and under floor air delivery (UFAD) systems interchangeably, and in all cases I can find actually mean UFAD. My thoughts on UFAD align with the material at the following links:

http://doas-radiant.psu.edu/TAAB_TALK_UFAD_fall2004.pdf

http://doas-radiant.psu.edu/Woods_UFAD.pdf

http://doas-radiant.psu.edu/ASHRAE%20Ottawa%20Valley%20Chapter%20-%20Rastan_Some_Thoughts_on_UFADs.htm

When a VAV system is used to deliver air to an UFAD system, one is very hard pressed to show that the 80% recirculated air is clean, and provides superior health in the breathing zone. I would much prefer to take my chances with a 100% OA system delivered at the ceiling and recirculating locally than a VAV with UFAD!

If you have any questions that you would like to ask Professor Mumma, you can contact him at sam11@psu.edu.



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.

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 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 and I will provide you with all of the information you'll need to be included in the publication.

ATTENDANCE

The Boston Chapter of ASHRAE -
October 10, 2006 Meeting
Had 110 in attendance:

96 ASHRAE Members
11 Non-Members
3 Students

ASHRAE Region 1 Executive Committee 2006 - 2007

- DRC - Director & Regional Chair:** Garry Myers, Flack & Kurtz Inc.
Ph: 212-951-2815
Garry.Myers@ny.fk.com
- ARC - Assistant Regional Chair & Treasurer:** Mike Circosta, County of Westchester
Ph: 914-995-2573
mgc3@westchestergov.com
- Nominating Committee Member:** Gus Mastro, University of Vermont
Ph: 802-656-2186
gastro@uvm.edu
- Nominating Committee Alternate:** Cliff Konitz
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c.konitz@verizon.net
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smorasch@firstenergycorp.com
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rswarthou@cs.com
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- RVC Student Activities:** Emery Otruba, Steam Plant Systems
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eotruba@steampplantsystems.com
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- Regional Refrigeration Chair:** Wayne Vanasse, ARC Mechanical Contractors
Ph: 802-222-9255
wvanasse@arcmech.com
- Regional Historian:** Phil Knowlton, Knowlton Associates
Ph: 860-642-3970
pbknowlton@comcast.net
- Webmaster & Newsletter Judge:** Mike Colwell, Tri Cities Temperature Control
Ph: 607-724-8282
mike.colwell@mail.ashrae.org





What's New in our Chapter

By Bryan Hermann

Meeting Minutes of the Board of Governor's
October 10, 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:

DRC Visit

The Chapter wants to thank Garry Myers, the Region I DRC, for visiting our Chapter and attending our Board of Governor's and Technical meeting. We hope that you enjoyed your stay, enjoyed our technical meeting, and enjoyed our Chapter. Garry is welcome back to the Boston Chapter anytime.

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.

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 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.

Sustainability Committee

The opening meeting for the Sustainability Committee was a huge success. The Boston Chapter had a large turn-out of members interested in getting involved. We encourage all members interested in joining the committee or interested in helping out to join in on the next meeting November 7, 2006. If anyone has interest in helping out with the committee, please contact Committee Chair Jim Shiminski for additional information.

Chapter Website

The Chapter will be discussing the website with a web designer next month to evaluate where the website stands and where the website can go. We will update everyone on new information as it develops.

Anyone interested in assisting with the website can contact George Hardisty or Steve Rosen 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 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!

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	305	375	0	200	400	600	1,880

Boston ASHRAE Photo Gallery

October Meeting



Dr. Stanley Mumma addresses the group



Garry Myers, Region 1 DRC

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



CCTC - TEGA Article

By David Klee

Getting to Know HFC-410a

Another refrigerant is making a name for itself in the industry. Its name is HFC-410a. Although 410a has been around for decades, it has only recently become mainstream. The purpose of this article is to quickly summarize the distinguishing characteristics of 410a.

HFC-410a is a high-pressure refrigerant, which puts it in the company of refrigerants like HFC-407C, HFC-134a, and HCFC-22. However, because HCFCs contribute to ozone depletion and are therefore subject to phase out by the Montreal Protocol and US legislation, 410a distinguishes itself from its high-pressure HCFC acquaintance, HCFC-22.

So, we're back to HFCs that don't deplete the ozone layer. HFC-407c is one of these. Its unique and redeeming quality is that it can be "dropped into" HCFC-22 equipment with only slight capacity and efficiency penalties. However, 407c hasn't won broad popularity. HFC-134a, on the other hand, is common today in industrial equipment and has been widely used since the 1990s. In the last several years 134a has also become common in commercial equipment. 134a is rare in residential equipment.

Enter HCFC-410a. It seems to be earning the distinction of the preferred current and future refrigerant for residential equipment and is quickly becoming common in commercial equipment.

Unlike 407c, 410a cannot be "dropped into" existing equipment designed for use with HCFC-22 due to its higher operating pressure. Equipment designed to operate specifically with 410a will likely provide higher efficiencies than previous-generation HCFC-22 equipment did. 13 SEER requirements are also driving this.

More good news: HFC-410a is not flammable and has a very low toxicity. This gives 410 a safety rating of 'A-1' per ASHRAE standard 34 – like its HFC siblings 407c and 134a.

While change can be painful, it often produces desirable results. In this case, environmental awareness has led to new legislation and new standards (pain). This in turn created the demand for non-ozone depleting refrigerants and more efficient equipment (desirable results). Refrigerant producers and equipment manufacturers have answered the call with efficient equipment using HFC-410a.

Source: DuPont. Technical Information, ART-14: "Properties and Performance of Suva 407c and Suva 410a in Air Conditioners and Heat Pumps."



Sustainability

By Steve Rosen

ATLANTA - A new technical research group focusing on sustainable building guidance and metrics has been created by ASHRAE.

The group will develop design guidance, performance metrics and rating systems to integrate indoor environmental quality, energy efficiency and other aspects of sustainable building performance.

“If you ask a group of engineers to look at a facility, you’ll get a variety of opinions about how that building is performing in regard to energy efficiency, indoor air quality and comfort,” said Bryan R. Becker, Ph.D., P.E., a member of ASHRAE’s Technical Activities Committee, which oversees Society technical committees. “Our goal is to develop metrics and rating systems that are repeatable, verifiable and that can be utilized globally.”

Those interested in joining the new group can email MORTS@ASHRAE.net for further details.

The group will work with other organizations to integrate HVAC&R systems with other building systems to enhance the effectiveness of total building design and integrated practice.

ASHRAE has some 100 technical committees, task groups and technical resource groups. These committees drive the ASHRAE research program, support the development of standards, develop and sponsor technical seminars and symposiums for ASHRAE meetings, review and draft technical articles, special publications and educational courses and write the ASHRAE Handbook, considered to be the Bible of the HVAC&R industry.

ASHRAE, founded in 1894, is an international organization of 55,000 persons. ASHRAE fulfills its mission of advancing heating, ventilation, air conditioning and refrigeration to serve humanity and promote a sustainable world through research, standards writing, publishing and continuing education.



Research Promotion

By Enrique de los Reyes

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.

Another way that people can donate using a credit card is 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!



Remember our Veterans!!

Veteran’s Day is November 11



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. 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.

2006 – 2007

BOSTON CHAPTER OFFICERS, BOARD MEMBERS AND CHAIRPERSONS

OFFICERS

OFFICE / OFFICER	PHONE	E-MAIL
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Secretary: Bryan Hermann, BR+A	617-254-0016 x295	bmh@brplusa.com
Treasurer: William Garvey, SEI Companies	617-210-1711	bgarvey@seicompanies.com

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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
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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., Collaborative Engineers	617-742-7799 x241	sbosland@collaborativeengineers.com
Publicity	Kristen DelloRusso	617-962-2933	kristen@cruiseline-deals.com
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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	In Progress	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.	Jeffrey Tubbs, P.E.	In Progress	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	TBA
SOCIAL EVENT					
June 2007	Golf Outing		N/A	William J. Garvey	Country Club of Halifax & Poquoy Brook Golf Course
SOCIAL EVENT, RESEARCH PROMOTION NIGHT					



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