



2008 - 2009 Officers

 Jeffrey Schultz,
President

Bryan Hermanny,
President-Elect



Bill Garvey,
Vice-President & Treasurer



Pat Duffy,
Secretary

Table of Contents

President's Message	2
Editor's Note	2
Sustainability Committee	2
Attendance Update	2
October Meeting Recap	3
CTTC - TEGA	3
RP Pledge Form	4
Society News	5
Research Promotion	5
Upcoming Events	5
Historian's Column	6
Membership Promotion	7
Student Activities	7
Webmaster's Note	7
BOG Meeting Minutes	8
PAOE	8
Meeting Schedule	9
Officer & Committee List	10
Contributor Listing/ ASHRAE Research	11



MAIN MEETING

Under Floor Air Distribution Systems

Speaker: Steve Tafone

UFAD systems have received considerable attention recently in North America. They propose to save energy, provide better thermal comfort and improve indoor air quality as compared to traditional overhead systems. The presentation will cover the purpose, concept, design and installation issues of UFAD systems. We will also discuss the benefits and potential problems of the UFAD system and compared it to a conventional overhead system.

Meeting is approved for 1.5 PDHs that are valid for New York State under P.I.E.

Meet the Speaker

Mr. Tafone has over 30 years of experience in the HVAC and construction fields. He is presently employed at William A Berry & Son Inc., a construction management firm, as Vice President of Engineering. He is a past president of the American Society of Heating, Refrigeration and Air Conditioning Engineers (ASHRAE) Boston's Chapter. Additionally, he has been teaching various technical courses for over 10 years. Mr. Tafone is a Registered Professional Engineer in MA & NY, has a CFC Universal Certification, LEED AP and holds a MA license as a Refrigeration Technician. He received his BSME from Pratt Institute.

DATE: Tues., November 11, 2008

MEETING MANAGER: Steve Tafone

MEETING PLACE: Doubletree, Waltham, MA

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 \$35.00
Members that do not RSVP \$45.00
Non-Members \$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. Double-Tree Hotel is the first driveway on the left.

RSVP: Dan Denisi - dcd@brplusa.com - by Fri., Nov. 7

This Month's Menu

Appetizer/Salad:
Cavatelli Pasta Carbonara

Entrée:
Roasted NY Sirloin w/
Mushroom Port Sauce

Dessert:
Tiramisu w/ Crème
Anglaise

NOTE: Vegetarian Options Available! Advise Dan when reserving spot

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PRESIDENT'S MESSAGE

By Jeffrey Schultz

It's been a great month thanks to our energetic members who have helped support our chapter by attending the programs. As many of you may be aware, this month we had two meetings. We incorporated an additional meeting which was sponsored by the chapter and hosted by National Grid. The Grid supplied the location and the delicious breakfast and best of all, it was free of charge. Approximately forty members showed up for the breakfast which was near capacity for the space. Mr. Olaf Zwickau from Air Solutions & Balancing, LLC was the featured guest speaker. His informational speech was focused on kitchen ventilation sustainable design. This meeting was approved by New York State P.I.E. for 1.5 PDH credits for registered engineers who had attended. Many comments were made to me at the end of the two hour seminar thanking me for arranging an informal way to gain more points for the New York State accreditation which are needed to maintain their registrations. The real thanks go out to Enrique de los Reyes who orchestrated this event and Fran Boucher from the National Grid who procured the space and arranged the breakfast. As your President, I am going to continue to offer additional opportunities for our members to gain more "Green" knowledge in the HVAC field.

On another note, Society has shown interest in our additional breakfast meetings. They asked for more information so that they may do a future write up in the "Insights", the Society newspaper. Our next breakfast meeting will be held after the first of the year. Just check the schedule on this newsletter for the exact date, time and location.

By the time you read this, our country will have elected a new President. Hopefully this President, besides strengthening our economy, will help to keep our country on a sustainable path to a cleaner environment and a brighter world.

HAPPY THANKSGIVING!

Jeffrey Schultz, President



Editor's Note

By Teri Shannon

Materials for the December newsletter are due **November 21**.

Employment / want ads may be submitted; they need to be in Word format. A company logo (in .gif or .jpg format) may be included. Please see website for deadlines for each issue.

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



Boston ASHRAE Sustainability Committee (BASC)



By Jim Shiminski & Fran Boucher

Greenbuild is just around the corner. This is a once-in-a-decade chance to have local accessibility to the greatest Sustainability show in the US. Exhibit floor admission is under \$100 but you can go for free by signing up for the Build Boston show which is held at the same time just blocks away, and exchanging your Build Boston badge at the door for a Greenbuild badge at no charge. If you have not been, this show will "wow" you with its size and inspire you with its breadth of new products and concepts.

Opportunities in energy efficiency continue to grow as the construction market slows. Collectively, the states of New York, Rhode Island and Massachusetts have authorized an extra \$40 million to \$50 million in incentives for commercial energy efficiency projects over the next year alone with a goal of increasing that substantially for each of the following 2 years. There is a marked shortage of engineering professionals serving these needs which may well be worth investigating for growing your career or your business.

For more information, visit www.greenbuildexpo.org.



ATTENDANCE

The Boston Chapter of ASHRAE -
October 08 Meeting
Had 72 in attendance:

57 ASHRAE Members
1 Non Member
14 Students

OCTOBER MEETING RECAP

By Jeff Schultz

Our second meeting of the year was held at the Doubletree Hotel in Waltham and was attended by 72 ASHRAE members, students and guests. The dinner was delicious and would have easily been given the seal of approval by the Phantom Gourmet.

Following a cheesecake dessert, we began our program with the introduction of five past chapter Presidents who were in attendance. We then commenced with chapter business including an introduction of Jeffrey Normandy, a student member from Massasoit Community College. Jeff received a check in the amount of \$3,000.00 from the Society's Associate of Engineer Technology Scholarship Fund.

Next, Joshua Benoist, our Student Activities Chairman, invited five cadets in uniform along with their student adviser from the Massachusetts Maritime Academy to come up to the podium. They received their banner and certificate for the newly elected student chapter. After additional chapter announcements, we began the main program with David Bearg from Life Energy Associates, whose presentation was entitled, Maximizing IAQ While Saving Energy. David's lecture was well produced and presented with enthusiasm to all the attendees. If you are interested, you may find David Bearg's power point slides by visiting www.ashraeboston.org.

1.5 PDH certificates will be given to members and guests who signed the PIE sign-in sheet.



Jeff Schultz with David Bearg



L to R: Josh Benoist, Jeffrey Normandy, Jeff Schultz



Josh Benoist (left) with new MMA Student Chapter and Jeff Schultz (far right)



CCTC - TEGA Article

By Darcy Carbone

New Reports Note Potential for Millions of Green Jobs

Global efforts to tackle climate change could result in millions of "green" jobs over the coming decades, according to a recent study. The study, prepared by the Worldwatch Institute with funding from the United Nations Environment Programme (UNEP), found that the global market for environmental products and services is projected to double from \$1.37 trillion per year at present to \$2.74 trillion by 2020, with half of that market in energy efficiency. It also notes that the energy supply sectors will be particularly important in terms of their environmental, economic, and employment impacts, particularly the renewable energy industry and those related to buildings, transportation, industry, agriculture, and forestry. The report notes that 2.3 million people have found renewable energy jobs in recent years, and projected investments of \$630 billion by 2030 would translate into at least 20 million additional jobs. See the report on the UNEP Web site: http://www.unep.org/labour_environment/features/greenjobs-report.asp.

The U.S. Conference of Mayors released a report in early October that finds the U.S. economy currently generates more than 750,000 green jobs, while over the next 30 years, an emphasis on clean energy could cause that number to grow five-fold, to more than 4.2 million jobs. Engineering, legal, research, and consulting jobs currently dominate the green jobs in the United States and could grow by 1.4 million by 2038, while renewable electricity production will create 1.23 million jobs, alternative transportation fuels will add 1.5 million jobs, and building retrofits will create another 81,000 jobs. The report notes that most of today's jobs are in metropolitan areas, led by New York City; Washington, D.C.; Houston, Texas; and Los Angeles, California, and it lists current and projected green jobs by metropolitan area. See the press release (<http://www.usmayors.org/pressreleases/uploads/greenjobsrelease.pdf>) and the full report (<http://www.usmayors.org/pressreleases/uploads/GreenJobsReport.pdf>).

Source: ASHRAE's Government Affairs



HAPPY THANKSGIVING!

2008-09 MONTHLY PLEDGE REPLY FORM BOSTON CHAPTER

Response Requested by 11/14/2008

ATTENTION: Candace DeVaughn
CDeVaughn @ashrae.org
404-321-5478 (fax)

SUBJECT: Monthly RP Donation

For \$12.50 a month, you can become an Individual Honor Roll Level RP donor!

I authorize ASHRAE RP to charge my credit card from November 2008 through June, 2009 (8 or 16 payments):

Monthly \$_____ per month

Bi-Monthly \$_____ per month

This should be credited as a(n): Individual Donation Company Donation

FROM: Name _____
Member/ Donor Number _____
Company _____
Address _____
City/State/Zip _____
Phone _____
Email _____

Credit Card # _____ Exp. Date _____

American Express MasterCard Visa

Signature _____

HONOR ROLL INVESTOR CATEGORIES

- \$1,000 - \$2,499: Major Investor
- \$500 - \$999: Major Donor
- \$250 - \$499: Honor Roll Investor
- \$100 - \$249: Honor Roll Donor

ASHRAE, Inc. is a qualified 501(c)(3) organization.
100% of every dollar contributed is invested in HVAC&R research.

SOCIETY NEWS

IFMA, ASHRAE COLLABORATE ON ENERGY EFFICIENCY ISSUES

ATLANTA — (Oct. 7, 2008) — With buildings accounting for 40 percent of primary energy use in developed nations, it is becoming increasingly important to find ways to build and operate them in an energy efficient manner. In recognition of this, the American Society of Heating, Refrigerating and Air-Conditioning Engineers and the International Facility Management Association are entering into an agreement that increases cooperation between the two groups.

The memorandum of understanding, to be signed at IFMA's [World Workplace 2008 Conference & Expo](#), calls for sharing resources and collaborating on projects, publications, sustainability research and educational offerings that will be beneficial to both organizations' members and constituents. ASHRAE and IFMA will also work together on legislative and regulatory issues through their Washington, D.C., offices.

"Engineers and facility managers share an important relationship in creating and maintaining buildings that are safe, healthy and energy efficient," said Bill Harrison, ASHRAE president. "Now, ASHRAE and IFMA are seeking to take that cooperative relationship to the next level. This agreement strengthens the existing partnership between our two organizations. By working together on issues in the built environment, we can enhance our respective efforts to create a sustainable future."

"ASHRAE's indoor air quality standards have long provided benchmarks and guidelines for facility managers to use in keeping workers comfortable, safe and productive," said David J. Brady, IFMA president and CEO. "In the new era of triple bottom line accountability on financial, social and environmental contributions, the need for energy vigilance and conservation is greater than ever."

The memorandum will be signed at 2:30 p.m. on Thursday, Oct. 16, at a press conference during World Workplace. Long recognized as the world's premier educational and networking conference for facility managers and those in related fields, World Workplace brings industry leaders from the world's top business and government organizations together with educators and exhibitors to focus on the future of the work environment. Now in its 29th year, the conference will feature 83 educational sessions and new product demonstrations by more than 300 manufacturers from across the globe.

World Workplace will be held Oct. 15-17 at the Dallas Convention Center in Dallas, Texas. For a complete list of conference details, visit www.worldworkplace.org. Members of the media interested in attending World Workplace may register at no cost [here](#).



Research Promotion

By Steve Rosen

We would like our Boston Chapter to donate \$19,280 for ASHRAE Research this year to match our goal. This goal has been set for us based on our membership of 914 dues paying members. If each member would contribute \$21.09, then we have satisfied our obligation!

Make a donation for yourself or from your company. Make a donation to honor someone in your life or in memory of someone who was in your life.

Please fill out the form on the back page of this newsletter and mail it to me with whatever contribution you can make or please go to the ASHRAE Boston website at www.ASHRAEBoston.org. Click on the Donation Form under Research & Promotion, or go there directly with this link:

<http://www.ashraeboston.org/researchpromo/donation-form.html>

Credit card payments can also be made when you're on the ASHRAE website - Use this link:

https://www.ashrae.org/aboutus/resource_promotion.asp.

There is also a form in this newsletter (see page 4) that can be sent directly to ASHRAE with your pledge!

As always, your generosity is greatly appreciated and will be recognized in the NorthEastAire throughout the year.

Thank You!

Upcoming Events

■ Green Build International Conference & Expo

- When: November 19 - 21, 2008
- Where: Boston, MA
- FMI: www.greenbuildexpo.org

■ AHR Winter Expo

- When: January 26 - 28, 2009
- Where: McCormick Place, Chicago, IL
- FMI: www.ahrexpo.com

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

■ If you have an event that you feel would benefit the members of Boston ASHRAE and wish to have it listed, please e-mail Teri Shannon at tshannon@dac-hvac.com.



Historian's Column

By Jim Liston

Received - A Piece of Heating History

On behalf of the Board of Governors of the Boston Chapter I would like to thank RDK Engineers for allowing The Chapter to borrow and make a copy of a very rare and historically significant book from the RDK engineering library.

The book is bound in an 8-1/2" x 5-1/4" canvas sectional post binder. The book contains approximately 80 individual "blueprints" of charts and tables used to size steam and hot water heating systems. The majority of the blueprints are approximately 7" x 3-1/2", but some are as large as 8" x 9", and are neatly folded into the binder. A majority of the pages are dated either 1906, 1907 or 1908, with a few dated 1912 and 1913. Several of the pages are undated. Titles of selected pages include: "Proper Ratio of Steam Heating Surface to Cubic Contents"; "BTU Losses Through Unplastered Brick Walls"; "Temperatures-Variou Localities" (with a very interesting subheading-"Number of Months Fire Required", possibly referring to fire in a boiler); "Size and Ratings of Horizontal Tubular Boilers"; "Sectional Cast Iron Boilers, Coal 14000 to 14500 BTU per Lb., Boiler Efficiency 60%"; "Mains and Returns for Hot Water Heating"; "H.P. of Steam Engines"; "Properties of Saturated Steam"; and "Air Required per Hour to Maintain a Given Standard of Purity". This last table is very interesting given the current IAQ concerns in buildings; obviously, providing proper ventilation was also a concern for heating and ventilating engineers over 100 years ago.

Conspicuously absent from the book is any information for designing air conditioning systems. Although central air condition systems were being installed in a few select buildings just after the turn of the century, they didn't come into popular use until the 1920's.

The Boston Chapter plans to have an archive quality copy of this early heating handbook made in the near future so that it can be added to our library of historical items. Hopefully, we will have a copy available for display at our November 11, 2008 Chapter Meeting which also happens to be History Night.

If you know of any items that could be of historical value to the Chapter, or if you know of a historically significant equipment installation, please contact me at jliston@berry.com. We are very interested in preserving the history of our Chapter.

**SUSTAINABLE
Urban Design**
Engineering Tomorrow...Today
2009 ASHRAE Winter Conference

**engineering
tomorrow...
today**

**ASHRAE's 2009
Winter Conference
January 24-28
AHR Expo
Jan. 26-28**

www.ashrae.org/chicago



Membership Promotion

By Dan Cooke

The October 14th meeting was designated as a Membership Promotion meeting.

We recognized our most recent Life Members and Fifty-Year Members at this month's meeting:

Arthur Bergles	Life Member
Joseph Alconada	Fifty-Year Member
Gordon Borek	Fifty-Year Member
Anthony Digiacomio	Fifty-Year Member
Gerald Kawadler	Fifty-Year Member

Please provide your membership ID number when sending an RSVP for the monthly meetings. You can find your ID number on your membership card, or at www.ashrae.org. Log in using your e-mail address and password, then go to the "Update Your Bio" link at the left of the page, under the "Member Central" heading.



Student Activities

By Joshua Benoist

At our last meeting, we welcomed our new Student Chapter, Massachusetts Maritime Academy, where we held an official introduction of the student chapter to our membership. We want to thank George Howe and our MMA students for making the long trip out. It was enjoyable meeting all of you and hope to see you back at future meetings and possibly at some ASHRAE student meetings on your campus.

We have a potential new student branch in the works right now. At the moment I cannot say much so stay tuned, we will report more as we firm up the details. We will continue to look to expand our Student Chapter branches. We can gain more student chapters, based on the amount of engineering colleges out there and Alumnus in our ranks, and we need to. We need to inspire new young engineers and introduce them to ASHRAE and our industry.

We need more champions!!! We have many Alumni of Massachusetts colleges and Universities in our ranks. We need *YOU* to step up to the plate and be that liaison between our chapter and your contacts at the college or university. It's a simple role, we need your help to identify, and contact a faculty member. Someone on campus that is willing to devote some time facilitating the new student chapter. 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 our Chapter and one of these colleges.

Harvard, Cambridge;
University of Massachusetts - Any Campus;
Boston University, Boston;
Boston Architectural College, Boston;
Northeastern University, Boston;
Tufts University, Medford;
Worcester Polytechnic Institute, Worcester

The 2009-2010 ASHRAE Senior Undergraduate Project Grant is now accepting applications. For more information and to apply, visit <http://www.ashrae.org/students/page/743>.

ASHRAE is requesting student member representatives for the ASHRAE Student Congress at the Winter Conference in Chicago! Nominated students should be an active student member in a branch, who is already attending the winter conference (preferably a student branch officer). It will take place Monday Jan. 26, 2009, 10:15am - 11:45am.

The deadline to nominate a student to the congress is December 1, 2008. For more information and/or to nominate a student, visit <http://xp20.ashrae.org/student/studentongress.pdf>.

Direct all applications, nominations, questions or concerns to tholman@ashrae.org.



Thanksgiving



Webmaster's Note

By Steve Rosen

The Boston Chapter for ASHRAE has launched its redesigned website at www.ASHRAEBoston.org. We will be keeping the site current with information; you can also view our award winning newsletter, the North-EastAire! Look for new features and photos every month!

This year we will continue to post past meeting presentations for our members to review, our Chapter is continuing our efforts to reduce waste by eliminating or greatly reducing printed handouts at our meetings.

Please email the [Webmaster](#) directly from the site with any site improvement ideas or news or events to be published to the web.



What's New in our Chapter

By Pat Duffy

Meeting Minutes of the Board of Governor's
October 14, 2008 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:

This Year's Meetings

Anyone interested in seeing what the 2008-2009 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.

Chapter Website

The Chapter's website is updated monthly 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.

Breakfast Meetings

The Chapter held it's first breakfast meeting on Wednesday October 29 at the National Grid Headquarters in Waltham. The Chapter is looking into holding a couple more breakfast meetings in addition to the regular monthly meetings. More information on the seminars will be sent out in coming months.

Student Activities

At the October meeting the newest student chapter, Mass Maritime Academy, was given their charter and a check for \$1500. Thanks to Joshua Benoist and David Goodman for their efforts in creating a new student chapter.

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.

See you at the next meeting!



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

Presidential Award of Excellence

Boston Chapter - 2008 - 2009

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	50	1140	0	260	395	385	2,230

Boston ASHRAE 2008 - 2009 Meeting Schedule

Date	Main Program	Speaker	PDH Credits	Meeting Manager	Location
September Tuesday, September 9, 2008	Geothermal Heat Pumps	Carl Orio, Water Energy Distributors	1.5 PDH's Approved	Enrique de los Reyes er@energysystemsdesign.com	Doubletree - Waltham
October Tuesday, October 14, 2008	Maximizing IAQ While Saving Energy Student Meeting / Membership Night	David Bearg, P.E., Life Energy Associates	1.5 PDH's Approved	Jeff Schultz jhs@brplusa.com	Doubletree - Waltham
Additional Morning Mtg! Wednesday, October 29	Sustainable Design for Kitchen Ventilation	Olaf Zwickau, Air Solu- tions & Balancing	1.5 PDH's Approved	Enrique de los Reyes er@energysystemsdesign.com	National Grid - Waltham
November Tuesday, November 11, 2008	Underfloor Air Distribution Systems History Night / Research & Promotion Night	Steve Tafone, P.E., William A. Berry & Son	1.5 PDH's Approved	Steve Tafone stafone@berry.com	Doubletree - Waltham
December Tuesday, December 9, 2008	TBA ASPE Joint Meeting	TBA	Pending	Darcy Carbone dcarbone@stebbinsduffy.com	Lantanas - Randolph
January Tuesday, January 13, 2009	Green Maintenance Needed to Keep HVAC Systems Green Membership Night	Robert G. Baker Distinguished Lecturer	Pending	Steve Nicholas snicholas@airinds.com	Doubletree - Waltham
February Tuesday, February 10, 2009	Radiant Cooling / Chilled Beams Green Roundtable Joint Meeting	Ken Loudermilk, Trox	1.5 PDH's Approved	Enrique de los Reyes er@energysystemsdesign.com	Doubletree - Waltham
Additional Morning Mtg! Wednesday, February 25	Transpired Solar Collectors	Pat Will, DAC Sales	1.5 PDH's Approved	Teri Shannon tshannon@dac-hvac.com	National Grid - Waltham
March Tuesday, March 10, 2009	ASHRAE & Building Information Modeling Research & Promotion Night	Gordon Holness, P.E., President-Elect ASHRAE Distinguished Lecturer	Pending	Steve Rosen steven.rosen@autodesk.com	Doubletree - Waltham
April Wednesday, April 1, 2009	Emerging Technologies AEE Joint Meeting / Past President's Night	TBD	N/A	Fran Boucher francis.boucher@us.ngrid.com	Doubletree - Waltham
May Tuesday, May 12, 2009	Installation of Officers	N/A	N/A	Bryan Hermann bmh@brplusa.com	TBD
June Monday, June 1, 2009	Golf Outing	N/A	N/A	Bill Garvey william.garvey@wspfk.com	Poquoy & Halifax Country Clubs

2008 - 2009

BOSTON CHAPTER OFFICERS, BOARD OF GOVERNORS & CHAIRPERSONS

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COMMITTEES

Attendance Daniel Denisi, BR+A (617) 254-0016 dcd@brplusa.com	Greeting Steven Tafone, William Berry 978-774-1057 stafone@berry.com	Product Show - April 2010 Jeffrey H. Schultz, BR+A 617-925-8242 jhs@brplusa.com	Student Activities Joshua Benoist, Autodesk 603-206-9122 joshua.benoist@autodesk.com
Chapter Program Jeffrey H. Schultz, BR+A 617-925-8242 jhs@brplusa.com	Historian Jim Liston, William Berry 978-774-1057 jliston@berry.com	Professional Development Steve Bosland, EYP 617-305-9831 sbosland@eypae.com	Sustainability Jim Shiminski, DAC Sales 207-985-0873 jshiminski@dac-hvac.com
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CRC Alternate Bryan Hermann, BR+A 617-928-8295 bmh@brplusa.com	Nominating Robert Persechini, RDK Engineers 617-345-9885 x322 rpersechini@rdkengineers.com	Region 1 Garry Myers, P.E. 212-951-2815 garry.myers@ny.fk.com	
Golf Outing William Garvey, WSP Flack+Kurtz 617-210-1711 william.garvey@wspfk.com	NorthEastAire Teri Shannon, DAC Sales 207-985-0873 tshannon@dac-hvac.com	Research Promotion Steven Rosen, Autodesk 603-621-3259 steven.rosen@autodesk.com	



ASHRAE RESEARCH

Investors
Who Care
About
Tomorrow

ASHRAE Chapter Contributors

- Robert J. Barstow
- Patrick Duffy
- Bill Garvey
- Bryan Hermann
- William A. O'Leary
- Steven Rosen
- Jeffrey Schultz

CALL STEVE ROSEN NOW! AT 603-621-3259, OR:

Mail Check (Payable to "ASHRAE Research") to:
 ASHRAE RESEARCH
 c/o Steven Rosen
 Autodesk
 100 Commercial Street
 Manchester, New Hampshire
 03101

Your contribution puts us closer to achieving our goal. Please send what you can today!
 Individual contributions of \$100 or more and Corporate contributions of \$150 or more receive this year's Commemorative Coin and Honor Roll Contribution status.

Name: _____
 Company: _____
 Address: _____
 TEL: _____

INDIVIDUAL	\$25.00	\$50.00	\$100.00	\$200.00	Other: _____
CORPORATE	\$250.00	\$500.00	\$1,000.00	\$2,000.00	Other: _____



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ASHRAE - BOSTON CHAPTER www.ashraeboston.org

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