



NORTHEASTAIRE

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

XXXXV No. 59

May 2007

Editor: Teri Shannon TEL: 207-985-0873

2006 - 2007 Officers



Darcy Carbone,
President



Steve Rosen,
President-Elect



Jeff Schultz,
Vice-President



Bill Garvey,
Treasurer



Bryan Hermanny,
Secretary

Table of Contents

President's Message.....	2
Region 1 Contacts.....	2
Editor's Note.....	3
April Meeting Recap.....	3
CTTC - TEGA Article.....	4
Webmaster's Note.....	4
Upcoming Events.....	4
Research Promotion.....	5
Membership Promotion....	5
Historian's Column.....	6
Sustainability Committee..	8
Student Activities.....	8
PAOE.....	8
BOG Meeting Minutes...	9
Golf Outing Info.....	10
ASHRAE Ads.....	13
Officer & Committee List...	14
Meeting Schedule 06-07...	15
Contributor Listing/ ASHRAE Research.....	16

INSTALLATION OF OFFICERS & TECHNICAL MEETING

Tuesday, May 8, 2007

Forefront Center, 404 Wyman Street, Waltham, MA

5:30 pm to 9:00 pm

Dear Members of the Boston Chapter of ASHRAE, Committee Chairs, Committee Members, Officers and Board of Governors:

You are invited to attend the ASHRAE Boston Chapter Installation of Officers 2007 - 08. Please join us to meet the ASHRAE members serving your Chapter. Guests with RSVP are welcome.

Please RSVP by email only to Pat Duffy by Friday, May 4, 2007 at PJD@BRPLUSA.COM

Cost is \$30.00 at the door.
Cost includes a dinner buffet and two drink tickets.

Directions to the Forefront Center are available at www.forefrontcenter.com

MAIN MEETING

Industrial Ventilation Systems and Energy Recovery

Featured Speaker: Tom Godbey



Designing industrial ventilation systems is complex and very energy intensive. While providing safe ventilation is the main mission of these systems, there are recirculation techniques that may be used in certain applications in order to conserve energy. This session will describe the basics of industrial ventilation design for HVAC engineers and cover how recirculation can be used to reduce the energy intensity of these systems. Pros, cons and typical recirculation system layouts will be covered.

Meet the Speaker

Tom Godbey has over 33 years experience in the air pollution and dust control industry serving in application and product engineering, process engineering, and in engineering management and sales. Tom possesses a wide background in many industries. His areas of expertise include process ventilation, explosion venting of fabric collectors and hot process systems. Tom is currently Application Specialist with Donaldson Company Inc. and serves on diverse ASHRAE committees.

Statements made in this publication are not expressions of the Society or of the Chapter and may not be reproduced without special permission of the Chapter.



PRESIDENT'S MESSAGE

By: Darcy Carbone

Dear Boston Chapter Members,

We are getting very close to the end of another successful year of our Chapter! We have just a few more great events before we wrap up the year.

We will be having an installation of officers ceremony prior to the technical dinner meeting in May. Please come to celebrate and help me welcome the President for 2007-2008, Steve Rosen, and all of the other Boston Chapter Officers. Everyone is encouraged to join us and bring along friends/family/associates that might be interested.

Hopefully it will start to feel like spring soon. Some of us need all the practice we can get on the greens before we go in front of our peers at the **ASHRAE Golf Outing** in June. I also want to mention that there is a great "warm up" golf outing at the **Angela Persechini McAlarney Memorial Golf Tournament** Friday, May 18, 2007 at Poquoy Brook Golf Club. This is being run by one of our past presidents, Bob Persechini, who has been a tremendous asset to the Boston Chapter.

I would also like to thank Eric Edman for continuing with his annual student chapter tour of Children's Hospital. It is people like Eric that help make a difference to our young engineers...thanks again Eric.

Cheers,

Darcy Carbone
President – Boston Chapter ASHRAE

ATTENDANCE

The Boston Chapter of ASHRAE -
April 2007 Meeting
Had 77 in attendance:

68 ASHRAE Members
4 Non-Members
5 Students

PDH CREDIT REMINDER

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

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
gmastro@uvm.edu
- Nominating Committee Alternate:** Cliff Konitz
Ph: 845-297-5864
c.konitz@verizon.net
- RVC Membership Promotion:** Spencer Morasch, Jersey Central Power Light
Ph: 732-212-4133
smorasch@firstenergycorp.com
- RVC Research Promotion:** Ron Swarthout
Ph: 607-754-7590
rwswarthou@cs.com
- RVC Chapter Technology Transfer:** Lee Loomis
Ph: 585-248-0219
leeloom@aol.com
- RVC Student Activities:** Emery Otruba
Ph: 518-320-4682
eotruba@verizon.net
- Regional Chapter Programs:** Peter Oppelt, R.F. Peck
Ph: 585-697-0836 x103
poppelt@rfpeck.com
- 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
- Director of Member Services:** Carolyn Kettering, ASHRAE
Ph: 404-636-8400
ckettering@ashrae.org
- Director of Communications & Publications:** Jodie Dunlop, ASHRAE
Ph: 404-636-8400
jdunlop@ashrae.org

APRIL MEETING RECAP

By Darcy Carbone

April's meeting was another successful technical program thanks our speakers Fran Boucher, CEM, National Grid and Sam Nutter, CEM, Massachusetts Technology Collaborative. They both had great insights of Sustainable Design and Green Buildings from hands-on experience.

Fran spoke of the overall impact that we are having on the local construction and how we, engineers of the community, are being called to step up to the plate and provide our clients with the resources that are available to us. He also promoted the resources that are available to assist us and our clients. He went through case studies on successful local commercial construction projects that leveraged readily available grants, rebates and low cost / no cost technical assistance.

Sam presented the first Green high school, Whitman Hanson Regional High School. He reviewed the MEP aspects that contributed to points towards achieving LEED Certification. He also discussed some the lessons learned through this process.

If you have any questions, here is their contact information:

Fran Boucher: FRANCIS.BOUCHER@us.ngrid.com
Sam Nutter: nutter@masstech.org



Editor's Note

By Teri Shannon

At this time, we are accepting want ads only for the newsletter. Ads need to be in Word format. Company logos can be included with your ad; these need to be provided in either a .jpg or .gif file format. **The deadline for the June newsletter is May 20th.** 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.

Massachusetts proposes new regulations for products with mercury

By Lori Segall, Mercury Program Manager
Mass. Dept. of Environmental Protection
617-654-6595

I am writing to let you know that the Massachusetts Department of Environmental Protection (MassDEP) is proposing new regulations that may affect some of your members. These regulations will implement components of the Massachusetts Mercury Management Act, a law passed in 2006 that is designed to keep mercury out of our trash and wastewater. We would appreciate your help in informing your members about these requirements and the opportunity to comment on our draft regulations.

The Mercury Management Act requires that manufacturers of products with "intentionally-added" mercury that are offered for sale or distribution in Massachusetts establish programs for collecting their products at the end of their useful lives and recycle the mercury. Examples of products covered by this requirement include pumps with mercury tilt switches, medical devices containing mercury, mercury thermostats, pressure and temperature sensors that contain mercury, and electronic devices with mercury relays.

The law bans the sale or distribution of thermostats and certain scientific and medical devices containing mercury in Massachusetts starting May 1, 2008, and bans the sale or distribution of mercury switches and relays (and products containing them) starting on May 1, 2009. The law also requires that products containing mercury be labeled as such if they remain on the market in Massachusetts after May 1, 2008.

MassDEP has issued draft regulations for public comment that address the manufacturer requirement to collect and recycle mercury-added products. We look forward to receiving comment by interested parties. Other components of the Mercury Management Act will be addressed in a separate package of regulations that we expect to publish for public comment in late summer or early Fall 2007.

You can find the draft regulations, the public hearing schedule, and information about how to submit comments on MassDEP's web site: <http://www.mass.gov/dep/public/publiche.htm#hgphase1>.

If anyone has questions about the proposed regulations or the requirements of the Massachusetts Mercury Management Act, please email Lori at lori.segall@state.ma.us or call me at 617-654-6595.



CCTC - TEGA Article

By David Klee

ASHRAE GOES TO WASHINGTON!

ASHRAE's Advocacy Program Continues to Build Momentum

ATLANTA – ASHRAE's advocacy program, designed to provide technical input to government in developing programs related to the built environment, is continuing to gain ground.

Since its launch in July 2005, ASHRAE's government affairs team has greatly expanded its presence in Washington, D.C., through such activities as World Standards Day, organizing a roundtable for related organizations, sponsoring a Washington Fellow, and taking part in Congressional Visits.

"The ASHRAE Government Affairs Office and the Advocacy Committee have been working hard to position ASHRAE as a leading source of expertise in the built environment and a resource for policymakers in developing legislation and regulations affecting the public, the HVAC&R community, and the engineering profession," Kent Peterson, chair of the Advocacy Committee, said.

As part of those efforts, ASHRAE is helping to administer World Standards Day on October 18 in Washington, D.C. Standards are essential to modern society because they provide a common basis for communication among diverse groups and conserve resources by providing solutions to frequent problems.

The goal of World Standards Day is to raise awareness of the importance of global standardization to the world economy and to promote its role in helping meet the needs of business, industry, government, and consumers worldwide. The event, which consists of a reception and dinner, was first held in 1970 and is co-chaired in the United States by the American National Standards Institute (ANSI) and the National Institute of Standards and Technology (NIST).

At this year's event, Jim Hill, past ASHRAE president and the acting deputy administrator for NIST, will serve as this year's honorary chairman and recipient of the Ronald Brown Award.

ASHRAE also is participating in Congressional Visits Day May 1 and 2. Sponsored by the Science, Engineering and Technology Working Group, of which ASHRAE is a member, the event brings together engineers of all disciplines to meet with Congressional members and staff and officials from the President's Office of Science and Technology Policy to help improve scientific policies within the federal government. ASHRAE is hosting the event's Capitol Hill breakfast at which Rep. Bart Gordon, chairman of the House Science Committee, will preside.

For more information on ASHRAE's government affairs activities or to receive the government affairs updates, visit www.ashrae.org/governmentaffairs.

From ASHRAE Press Release dated April 13, 2007

Upcoming Events

Angela Persechini McAlarney Memorial Golf Tournament

When: Friday, May 18, 2007

Where: Poquoy Brook Golf Club, Lakeville, MA

FMI: Bob Persechini - rpersechini@rdkengineers.com

ASHRAE Golf Outing

When: Monday, June 4, 2007

Where: Country Club of Halifax, Halifax, MA & Poquoy Brook Golf Club, Lakeville, MA

FMI: Bill Garvey - bgarvey@seicompanies.com

ASHRAE Boston Chapter Planning Meeting

When: June, date TBD

Where: TBD

FMI: Steve Rosen - steven.rosen@autodesk.com

ASHRAE Annual Meeting

When: June 23 - 27

Where: Long Beach, CA

FMI: www.ashrae.org/events/

ASHRAE Region 1 Chapter Regional Conference

When: August 16 - 18, 2007

Where: Niagra Falls, NY

FMI: Russ Stuber, General Chair, Ph: 716-693-4490

AHR Winter Expo

When: January 22 - 24, 2008

Where: New York, NY

FMI: www.ashrae.org/events

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



A Message from the Webmaster

By George Hardisty

- Continue to check the site periodically for the latest Chapter news and new employment opportunities.
- Please note that scholarship applications are available on the site. Look under "Special Events"; "Scholarships"; Download application.
- New on the web site: "News from your Committees". Go to Who's Who; Committees and click on the committee name for the latest news from that committee.
- Hope you enjoy the information.



Research Promotion

By Enrique de los Reyes

I would like to thank everyone who has so generously given to the Research Promotion campaign. Thanks to everybody's generosity we should beat our Chapter's goal by 5% or so. As always your generosity is greatly appreciated and will be recognized in the newsletter throughout the year. This fund goes to research projects of great importance to us in fields such as sustainability and improved healthcare environments.

Several of the key Engineering firms are joining us in this cause. They have made very generous donations and we hope that other key Engineering firms will join us for next year's campaign.

As the ASHRAE year is coming to a close, I want to thank all contributors again and ask every member to consider a donation (large or small) when renewing your membership. Remember this donation is tax deductible (to you or to your employer if they pay for your renewal and donation) and it goes to a great cause.

Thanks again!



Membership Promotion

By Dan Cooke

Members can renew their membership through multiyear membership options with a \$15 discount on the second and third years, as well as online dues payment at www.ashrae.org/membership <<http://www.ashrae.org/membership>>. Keep in mind that memberships are cancelled if they are more than 6 months delinquent on Society Dues, so please take a moment to make sure that your dues are up to date.

Boston Chapter members Edward Hashey and Anthony Petone were approved for advancement to Member grade during the February 14th meeting of the Admissions and Advancement Committee. The requirements for advancement are that a Member have the equivalent of 12 Society-approved years of experience composed of an approved combination of: 1) completed education beyond high school; 2) work experience; and 3) professional engineering or related registration or license issued by a legally authorized body. Applicants approved for advancement receive a \$20 incentive coupon that can be used for the purchase of ASHRAE logo merchandise, annual dues or publications.

Contact the Membership Development Department at ASHRAE for an advancement application or complete the online advancement form, located in the ASHRAE Activities and Membership area of www.ashrae.org.

ASHRAE Boston Chapter 2007-2008 Ballot

President: Vote

Steve Rosen, Autodesk, Inc.

Write In

President-Elect: Vote

Jeff Schultz, BR+A Consulting Eng.

Write In

Vice President: Vote

Bryan Hermann, BR+A Consulting Eng.

Write In

Secretary Vote

Pat Duffy, BR+A Consulting Eng.

Write In

Treasurer Vote

Bill Garvey, SEI Companies

Write In

Board of Directors: Vote

Joshua Benoist, Autodesk, Inc.

Thomas Bryte, BR+A Consulting Eng.

Steve Nicholas, Air Industries

Write In

Please return via fax or e-mail to:

Steve Rosen

Fax: 603-206-9105

E-mail: steven.rosen@autodesk.com



Historian's Column

By Robert J. Barstow



Part IV of IV of Interview with Gary Vanderweil of R.G. Vanderweil Engineers.

GV – Speaking of architects – that's a big change from 1967. At that time architects were still in the old master builder mode where they know everything, and they took full responsibility for the job, getting it built, bringing it on budget, and they really ran the show. Many times the consulting engineer would not be called in until after schematics had been done. The architect would have located fan-coil units where he wanted them, and air handling rooms where he wanted them. If the job was coming in over budget we would re-design. They had professional cost estimators. It would go out to bid, and you would hire a general contractor to do all the construction. Today it's opposite. The architects are just part of the larger team. The MEP is an equally important component of the team, and the civil and structural, and there's a construction manager usually, not a general contractor. Architects now tend to function more as designers, coordinators, and design project managers, and not as the master builders that they were in the post World War II era.

RB – MEP has gotten much more complicated for them also.

GV – The MEP has really gotten specialized, which is good. It's good for the business and the industry. It is amazing how far the state of knowledge has come along. Now controls engineering is software oriented, not hardware. Instead of pneumatics, we just run communications cables to the local panels, which control the actuators. In a way it's much simpler. I think it's soon all going to go wireless. The big issue is having a user-friendly interface for those owners that don't really have sophisticated mechanical people. A lot of owners like universities, pharmaceutical companies, and hospitals have very sophisticated staffs but there are a lot of owners that don't. I don't think consulting engineers spend enough time interfacing the control system for these users. It should be simple, easy to adjust and change set points, and to change the time clock function. I think lighting controls have to be integrated. Right now, we tend to have separate lighting control systems and separate temperature control systems. They can talk to each other with BAC-NET. We need to do a better job for the small user. For the big client we don't have to do anything - they have in house control specialists.

I thought of something else that has changed out there in the world. Back in 67, the business cycle would create a recession every four years. Business would dip and rise, dip, and a rise, almost like clockwork. Lately, the cycle has changed to every ten years. 1980 to 1990 was good; then there was a recession and George Bush the first didn't get re-elected. Under Clinton the economy was good for ten years until the recession of 2001. Now we're going again. It's much better for business if you can go ten years between downturns than four years. Some of those downturns were bad, especially for Architects. People stopped building. Fortunately, even in downturns the MEP systems wear out, so buildings continue to need our services.

RB – I used to have a whole group of real estate people. If they

were going to buy a building, I would go and look at the mechanical systems and tell them what they were up against. I'm sure they had other people looking at other parts of it also. So that was another thing we could do. And a lot of engineers are working independent of architects, working for owners.

GV – We have a lot of direct contracts with owners. Often they will marry us with an architect. It usually depends on how the owners want to do it. Today the larger owners have become very sophisticated and knowledgeable relative to construction. We enjoyed the expansion of the computer industry. We did a lot of those buildings until the industry went out of business in Boston. Remember Prime Computer, Digital Computer, Analog, Wang? They were all here. That was a driver for Boston's economy. We did a lot of work for those companies and after them for the financial services sector. But now, some of them are moving, or expanding, out of Boston. I don't know how that's going to play out. Then you've got local companies being bought, like Gillette, Bank of Boston, and John Hancock. On the other hand we continue to have lots of start-up companies, we have software and biotech companies, and we have the universities, the medical schools and the hospitals.

Another industry change that occurred over our careers is the disappearance of drafting. Our office layouts used to be organized around drafting boards. Now we don't have a single one, and I don't think anyone knows how to draw. Back around 1984 the earliest CAD systems were being developed based on mini computers. We bought a couple of stations, paying something like \$50,000 per station, and trained several specialists to operate them. Then PCs came out, soon after which we bought one, and along with an early version of Autocad, assigned it to a designer who had never worked on the mini-computer CAD stations. Within two weeks the designer was doing productive work, so we went out and bought several more. We stopped using the mini-computer CAD system because the PCs were so successful. At the time, Intel would come out every year with a new faster chip - the 286, the 386, the 486, and each year as we bought more PC's they would arrive with the latest chips built in. When people with the previous year's computers saw how fast the new computers were, they'd all complain and we would have to buy them new ones too. It was an expensive process. Once the Pentium came out and they started increasing the speed from 40 megahertz up to 156 and higher, computers were fast enough to run CAD and we could slow down our rate of buying them.

Of course, another big industry change was driven by the hole in the ozone layer, and we have phased out CFC refrigerants. And chiller efficiency has been drastically improved – chillers used to be in the 1 kilowatt per ton range. Now we get them down to 0.4 KW per ton. Of course the whole technology of variable-frequency drives has developed during this period. Every time a new technology like this comes in, there's a learning curve and

Continued on next page

Historian's Interview – Continued

there's apt to be some problems on the first application. We ran into some problems with VFD's on small exhaust systems in 1982, and had to go back and refit fans.

RB – There's a big energy saving there also. Buerkel did all those large telephone company buildings, and they always put three-way valves on the units, with coil bypasses. So the result was that when you went to mild weather, you pumped more water than you used more energy than in extreme weather. I surveyed some of them and told them they should take all those out and replace them with two-way valves and variable-speed drives to cut there energy way down. But I don't think they ever did it. Everyone there had been so used to that arrangement, and that was the way the liked it.

GV – That was the standard design when I joined the company. You had a three-way modulating bypass valve. You either bypassed the coil or routed the water through the coil. Of course now it's all two way valves and variable-frequency drives on the pumps. Another change happened in the 80s, when the energy codes were implemented, dropping the ventilation rate. This created IAQ problems, and we had to increase the ventilation rates again. Tobacco smoke was a design factor in 1967. People used to smoke everything in the workplace - pipes, cigars, and cigarettes. Of course, now nobody smokes in the office, which I think has been a great change. Another change: single glass – remember when all fenestration was single glass? Now it's just the opposite. We're using triple-glazing in some projects, high performance glass, special coatings. And heat recovery is becoming almost standard, like the use of enthalpy wheels on toilet exhaust.

RB – What happened to the heat pipe system?

GV –It's still viable, but for sensible heat only. With the heat wheel, at least you can pick up latent heat. It's been an interesting 40 years. Our company grew from 10 or 15 people up to about 330 people now.

RB – You had offices all over the country at one time.

GV – Our main offices are here in Boston, then we have an office in Princeton, and an office in Alexandria, Virginia. We have two smaller satellite offices, in Las Vegas and Philadelphia. We had an office in Florida for about 10 or 11 years and sold it back to the employees in 2001. We had an office in Cleveland for several years but we closed it in the mid 90's.

RB – One time you used to be listed as one of the biggest engineers in the country. Is that still true?

GV – In our industry we are counted among the largest engineers, but size isn't important to me. I just like to do interesting jobs.

RB – What do you think of the future?

GV – The industry changes I see on the horizon have to do with climate change and green buildings. I think the trend is going to be for more integrated systems between the HVAC, the electrical, and the architecture, improved control of the thermal loads, solar control systems, using systems like double façade walls. I think the use of radiant heating and cooling is going to increase, especially in areas of the country where concrete buildings are common. Concrete buildings work well for radiant systems because of their thermal mass. That kind of system requires an integrated effort between the structural engineer, the mechanical engineer and the architect. I think 3D CAD is coming. Between the drive to do green buildings and 3D, I think we have another five or ten years of significant change. After that, who knows? Something else will come down the pike. It always does.

GV – Well, this was fun. I enjoyed it.

RB – Me too.

GOLF OUTING UPDATE

There are currently spaces available at both the Halifax Country Club and Poquoy Brook. Spaces fill up fast so you must act quick! Call Bill Garvey @ SEi Companies to reserve your spot today! Bill can be reached at (617) 210-1711. Don't be left out!

There are still hole sponsorships available - call Bill today to get your company's name on the green! Our thanks to the following companies who have already sponsored a hole:

Contest Holes:

- ◆ Longest Drive Sponsor - SEi Companies
- ◆ Straightest Drive Sponsor - Daikin A/C

Hole Sponsorships:

- ◆ BR+A
- ◆ DAC Sales
- ◆ Emerson-Swan
- ◆ Nelson/Scribner Associates, Inc.



**Boston ASHRAE
Sustainability Committee
(BASC)** *By Fran Boucher*

Key points from Boston NAIOP “Building Green” Seminar 4/10/07

Advice for MEP engineers from Bill Read and other sustainability market makers

- Push for involvement at schematic design phase
- Fully understand the first cost reduction associated with green technologies: Example: Eliminate carpet for UFAD under-floor air systems.
- Eliminate or significantly reduce perimeter heating by substituting hi performance glazing and envelope. Promote the first cost offset from less controls, pipe insulation and maintenance.
- Get accurate plug loads (really!!) measure plug loads of client prior to design / simulation.
- Include the effect of depreciation of first cost during life cycle to include true value of dollars

Reach for success: We need to learn and apply knowledge of financial matters and non-mechanical design components to sell sustainable mechanical designs

Thanks to Mark Warren for his contribution.

Please submit your own Sustainable new and ideas for future newsletters to Fran Boucher at francis.boucher@us.ngrid.com

ROSTER & PRODUCT GUIDE UPDATE

The 2008 ASHRAE Roster & Product Guide should be finished and mailed shortly. The committee expects everyone to have a copy in their mailbox by May 1.



Student Activities

By Cheryl Rossini

The Student Activities Committee has accepted the final applications for the 2007 Future Engineers Scholarship. Over 50 applications were received! We will be reviewing the applications and selecting the recipients by mid June.

Our donor has designed a selection process that will help us to find the best recipients. The committee will be limited to only 10 members. This process is different from last year but we are confident that it will work efficiently.

There will be up to 14 scholarships of \$2000 awarded !

Thanks to all who sent in their applications - good luck!

**If you are planning for a year, sow rice;
if you are planning for a decade, plant trees;
if you are planning for a lifetime, educate people.**
- Chinese proverb

ATTENTION MEMBERS!!

Our historical items need a home!!

The Chapter may look into a local library for storage and/or display of their historical items for everyone to use and view.

Contact George Hardisty at gmh@brplusa.com if you have a suggestion for a location or for more information on the items that are available.

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	1,495	1,810	425	965	1,265	7,975



What's New in our Chapter

By Bryan Hermann

Meeting Minutes of the Board of Governor's
April 10, 2007 Meeting

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

Below is a quick summary of what was discussed:

Voting Ballot – 2007-2008 ASHRAE Season

Members will see a voting ballot within the Northeast Aire to vote on the Officer and Board of Governor's positions for the upcoming 2007-2008 season. Please take a minute to fill out the ballot and send in to Steve Rosen.

Scholarships

The "Future Engineers Scholarship" deadline is April 20th, 2007 and you can find the application and on the Chapter website. Please keep in mind that the P.O. Box has changed from last year's application, so make sure that you are sending the information to the right address. This scholarship is an excellent opportunity for a senior in H.S., or 1st or 2nd year College engineering students to gain a financial edge on the rising costs of college tuition. If you have any questions, please feel free to contact Jim Shiminski or Cheryl Rossini.

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

2007 Golf Outing

The Board wanted to remind the members that the Golf Outing is coming up in June. If you are interested in participating in the event, the information can be found in the Northeast Aire. If you are interested in sponsoring the event, or sponsoring a hole for the outing, please contact Bill Garvey for information.

ASHRAE Research Promotion

We are proud to announce that we've met our goal of \$14,000 for the year! Please continue to help out and make this one of the biggest R&P years possible. If you'd like to show your support for the Chapter and for ASHRAE's research, please contact Enrique De Los Reyes for more information on how to help.

Boston Chapter of ASHRAE Sustainability Committee (BASC)

The Sustainability Committee is proud to announce that Fran Boucher has been added as Co-Chair to the Committee! Congrats Fran!

The Sustainability Committee is hoping to have future meeting via video conferencing. If you or your company have video conferencing capabilities and are willing to share your facilities to allow meetings for the Sustainability Committee please let either Jim Shiminski or Dan Cooke know of your interest.

The BASC also discussed the possibility of implementing Carbon Credits for attending the meetings. Carbon credits, which were implemented at the ASHRAE Winter Meetings in Dallas, are payments by attendees for driving to the meeting. It is a payment by attendees for the emissions that their cars are giving

off to the environment. The money that is raised goes towards Green research and development.

Student Chapters

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

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

We're planting trees

The Boston Chapter has worked out a deal with Massasoit College to plant a tree on the college campus. This effort shows a dedication towards the environment by both the Chapter and Massasoit College.

Product Show 2008

The Boston Chapter has set the date of April 15th 2008 for next year's Product Show. For additional product show information, or for volunteering assistance, please contact Jeff Schultz.

Product and Roster Guide

The Chapter is currently finishing up on the Product and Roster Guide and we anticipate it to be distributed soon. Look for the guides to arrive at your doorstep near the end of April!

Attention Past Presidents

The Chapter has located the lost banner that contained the award badges that are received at the end of the season. At the end of each season there are awards given out for certain accomplishments. The Chapter has received many of these badges in years past and we'd like to make sure that all of them have been collected and sewn onto the Chapter Banner. If you have any of these awards, please contact Cheryl Rossini and she will make sure they find their new home with the many other badges.

Upcoming Meetings

The May meeting is for the Installation of Officers. It will also be a technical meeting. Please note that the meeting will be held at the Forefront Center in Waltham, MA and as a result of the different location, we will try to provide the members with directions as well. We will send everyone information when it has been completed. We have submitted the PDH credit information and will let you know of further information when we receive it.

Annual Golf Outing

The Boston Chapter is planning the 41st Annual Golf Outing and Banquet, to be held at the Country Club at Halifax, in Halifax, MA, on **MONDAY, JUNE 4, 2007**.

We are appealing to your continued generosity for monetary contributions for the purpose of purchasing gifts to be awarded as golf and door prizes. In order to give the Prize Committee ample time to purchase these gifts, we would appreciate receiving your donations by **May 7, 2007**.

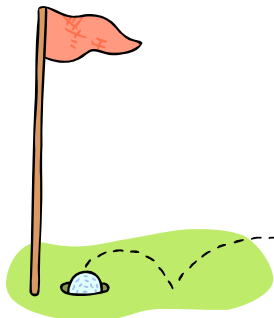
A donation of fifty dollars would be most welcome and more would be great appreciated! All donations will be publicly acknowledged by being published in the NorthEastAire bulletin.

We also welcome Hole Sponsorship. If you are interested in participating, please return the completed form (found on page 11 of the newsletter) with your contribution.

Please make check payable to A.S.H.R.A.E., Boston Chapter, and mail to:

A.S.H.R.A.E. Golf Outing Committee
c/o Bill Garvey, SEI Companies
88 Black Falcon Ave., Suite 210
Boston, MA 02210

Very truly yours,
ASHRAE Golf Outing Committee
Bill Garvey, Chairman
Robert J. Perschini, Prize Chairman



42nd ANNUAL ASHRAE BOSTON CHAPTER GOLF OUTING

- Date: MONDAY, JUNE 4, 2007
- Place: COUNTRY CLUB OF HALIFAX, Halifax, Massachusetts
POQUOY BROOK GOLF COURSE, Lakeville, Massachusetts
- Who: ASHRAE members and guests, by reservation only. Tickets will be sold on a first-come, first-serve basis, and all reservations MUST BE MADE BY **MAY 7, 2007**.
- Price: \$130.00—NO TICKET SALES AT THE DOOR
This includes greens fees, electric carts, cheese table for cocktail hour, and five course dinner. Prizes for everyone plus golf prizes.
- Halifax Tee Time: 1:00 PM We will have a shot gun start. Two foursomes (total of 8) will drive their carts out to their pre-assigned tee (on Par 3 tees, only one foursome will tee off). Eighteen foursomes will tee off at the same time, 1:00 PM sharp. It is important that you be there ahead of time. This is regular play.
- Poquoy Brook: Because we sell out every year, any overflow will play at Poquoy Brook in Lakeville. This will be either shot gun or tee times, depending on how many foursomes are registered by May 6th. If tee times, they would be 9:30 AM to 12:45 PM.
- We need to know the foursomes as soon as possible and recommend that you call immediately for reservations, even if you do not have all the names of those in your group. Contact Bill Garvey (Phone: 617-210-1711 or Fax: 617-210-1800). **IMPORTANT: Need the sizes of those in your foursome.**
- Dinner Only: A separate meal ticket may be purchased for those who do not play golf. Cost is \$35.00.
- Note: All courses require that we follow course rules: Proper dress code—No jeans, tank tops, bathing suits. No metal spikes. You are responsible for the golf carts you drive.
- Lunch: Dutch treat from regular luncheon menu. ARRIVE EARLY.
- Happy Hour: 6:30 PM to 7:00 PM—Dutch treat in Club House.
- Dinner: 7:00 PM - Complete roast beef dinner, beverage and dessert.
- Prizes: Prizes will be given out at check-in time for each foursome, and we want everyone to have a good time! Please support our need for donations.

Make checks payable to A.S.H.R.A.E. Boston Chapter

Mail to: Bill Garvey @ SEI Companies
88 Black Falcon Ave., Suite 210
Boston, MA 02210

Enclosed is check for \$ _____ for _____ Golf Outing, reservations, including dinner @ \$130.00 each.

_____ Dinner only reservations @ \$35.00 each

Name: _____ Address: _____

Phone: _____ Fax: _____ E-Mail: _____

Shirt sizes: Men/Quantity: S ____ M ____ L ____ XL ____ XXL ____ XXXL ____

Women/Quantity: S ____ M ____ L ____ XL ____ XXL ____ XXXL ____

HOLE SPONSORSHIPS

(\$200 EACH)

HOLE SPONSORSHIPS WIL INCLUDE A SIGN ON A HOLE

CONTEST HOLES:

(\$500 EACH)

CONTEST HOLE SPONSORSHIPS:

- 1. LONGEST DRIVE**
- 2. CLOSEST TO THE PIN**
- 3. STRAIGHTEST DRIVE**

HOLE SPONSORSHIP _____

CONTEST HOLE SPONSORSHIP _____

INDIVIDUAL SPONSORSHIP _____

MAKE CHECKS PAYABLE TO A.S.H.R.A.E. BOSTON CHAPTER

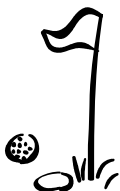
Mail to: Bill Garvey @ SEI Companies
88 Black Falcon Ave., Suite 210
Boston, MA 02210

NAME: _____

ADDRESS: _____

PHONE: _____

E-MAIL: _____



ASHRAE Ads

ASHRAE Learning Institute

Courses & Seminars at ASHRAE's Annual Meeting in Long Beach, CA

2 WAYS TO REGISTER

Internet: www.ashrae.org/longbeachcourses

Phone: Call 1-800-527-4723 (US and Canada) or 404-836-8400 (worldwide)

Full Day Professional Development Seminar

\$460/\$360 ASHRAE Member
Earn 6 PDH/6 CEU or 6 AIA LU credits

**New! The Commissioning Process in
New & Existing Buildings**
Saturday, Jun 23 – 8:00 AM - 3:00 PM



Half Day Short Courses

\$139/\$105 ASHRAE Member
Earn 3 PDH/3 CEU or 3 AIA LU credits

Healthcare Facilities-Best Practice HVAC
Saturday, Jun 23 – 9:00 a.m. to 12:00 p.m.

Intro to Green Building and Sustainable
Sunday, Jun 24 – 2:30 p.m. to 5:30 p.m.

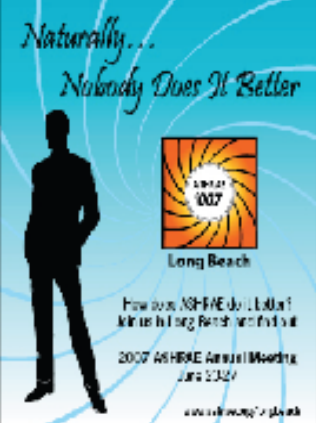
**Introduction Thermal Energy Storage
System for Air Condition**
Saturday, Jun 23 – 12:00 p.m. to 3:00 p.m.

**Complying with ANSI/ASHRAE/IESNA
Standard 90.1-2004 HVAC/Mechanical**
Monday, Jun 25 – 2:30 p.m. to 5:30 p.m.

New! Engineering Ethics: You be the Judge
Sunday, Jun 24 – 2:30 p.m. to 5:30 p.m.

New! Natural Ventilation
Monday, Jun 25 – 2:30 p.m. to 5:30 p.m.

Healthcare Facilities-HVAC System
Saturday, Jun 23 – 9:00 a.m. to 12:00 p.m.



NEW! 8 Focused Tracks in Long Beach

Wednesday, June 27th

MIX & MATCH Earn 5 PDH Credits

Focus Tracks

- Commissioning
- Data Center Cooling
- Environmental Health
- Energy
- Heat Pump
- Laboratory Design
- Peak Demand/Storage Systems
- Refrigeration

Price: \$190 ASHRAE Member

www.ashrae.org/longbeach

ASHRAE IAQ Conference 2007

Baltimore's Inner Harbor, Maryland

October 14-17

Healthy & Sustainable Buildings

The conference program includes:

- Internationally acclaimed keynote speakers
- Presentations of original peer reviewed papers
- The latest in sustainable building practices
- Workshops with informal panel discussions
- Networking opportunities at social events



Visit www.iaq2007 for more
information on the conference



Renew Your Membership Online!

Visit ashrae.org and
Manage Your
Membership



2006 – 2007

BOSTON CHAPTER OFFICERS, BOARD MEMBERS AND CHAIRPERSONS

OFFICERS

OFFICE / OFFICER	PHONE	E-MAIL
President: Darcy Carbone, Stebbins-Duffy, Inc.	781-246-0840	dcarbone@stebbinsduffy.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, RDK Engineers	2005 - 2008	857-221-5947	dcooke@rdkengineers.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, Stebbins-Duffy, Inc.	781-246-0840	dcarbone@stebbinsduffy.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, RDK Engineers	857-221-5947	dcooke@rdkengineers.com
Nominating	Robert Persechini, RDK Engineers	617-345-9885 x322	rpersechini@rdkengineers.com
NorthEastAire	Teri Shannon, DAC Sales	207-985-0873	tshannon@dac-hvac.com
Product Show - April 2008	Jeffrey H. Schultz, BR+A	617-925-8242	jhs@brplusa.com
Professional Development	Steve Bosland, 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	Healthcare Facilities—Best Practice HVAC Design Considerations & Criteria	Anand Seth, Milt Goldman	Approved for 3.0 PDH	Dan Cooke	DoubleTree - Waltham
STUDENT					
Tuesday, March 20, 2007	<i>The ASHRAE Promise: A Sustainable Future</i>	Terry Townsend, ASHRAE President	In Progress	Enrique de los Reyes, P.E.	DoubleTree - Waltham
NOTE NEW DATE!!					
STUDENT					
Tuesday, April 10, 2007	Sustainable Design: Making It Real, Getting It Done	Sam Nutter & Fran Boucher	In Progress	Jim Shiminski	DoubleTree - Waltham
MEMBERSHIP & RESEARCH PROMOTION NIGHT					
Tuesday, May 8, 2007	Industrial Ventilation / Installation of Officers	Tom Godbey	In Progress	Steve Rosen / Enrique de los Reyes, P.E.	Forefront Center - Waltham
NOTE NEW LOCATION!					
SOCIAL EVENT					
Monday, June 4, 2007	Golf Outing		N/A	William J. Garvey	Country Club of Halifax & Poquoy Brook Golf Course
SOCIAL EVENT, RESEARCH PROMOTION NIGHT					



ASHRAE RESEARCH

Investors
Who Care
About
Tomorrow

ASHRAE Chapter Contributors

- | | | | |
|---|--|--|---|
| Air Industries, Inc.
Boston Chapter Raffle
Cornerstone Commissioning, Inc.
Engineered Solutions Inc.
RDK Engineers
SEi Companies
TMP Consulting Engineers
Vanderweil Engineering
Walsh Mechanical Contractors
Mr Peter J Barrer
Mr Robert J Barstow
Dr Arthur E Bergles
Mr John R Breckenridge
Mr Henry P Breen, Jr PE
Ms Darcy Carbone | Mr Cris Copley
Mr Robert M Couture
Ms Katherine G Cunkelman
Mr Enrique de los Reyes
Mr Eric M Edman
Mr Gary M Elovitz
Mr J Michael Fleming
Mr William J Garvey
Mr Ralph S Gifford
Mr William J Goode
Mr Joe W Hale
Mr Robert A Hamilton
Mr George M Hardisty, PE
Mr Bryan Hermann | Mr Afzal S Heusen
Mr Nicholas Johnson
Mr James P Kirby
Mr Gene F Koons Jr
Mr Max Levi
Mr Daniel W Miles, PE
Mr Allan R Morris
Mr Robert L Morrison
Mr Stephen W Nicholas
Mr Donald W Noble
Mr Timothy J O'Leary
Mr William O'Leary
Mr Thomas Ouellet | Mr Paul F Padua
Mr Robert J Persechini
Mr Steven Rosen
Mr Jeffrey Schultz
Mr Michael C Spence
Mr C Donald Stebbins
Mr John M Swift Jr
Mr Parker Symmes
Mr Steven J Tafone
Mr Lawrence E Tarlow
Mr Charles E Thomas
Mr William K Thomas
Mr Michael J Torchio
Mr John A Wright |
|---|--|--|---|

CALL ENRIQUE DE LOS REYES NOW! AT 508-276-1102, OR:

Mail Check (Payable to "ASHRAE Research") to: ASHRAE RESEARCH C/O ENERGY SYSTEMS DESIGN, INC. 20 MARSHALL TERRACE WAYLAND, MA 01778	<p>Your contribution puts us closer to achieving our goal. Please send what you can today!</p> 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: _____													
<table border="1" style="width: 100%; text-align: center;"> <tr> <td style="width: 25%;">INDIVIDUAL</td> <td style="width: 12.5%;">\$25.00</td> <td style="width: 12.5%;">\$50.00</td> <td style="width: 12.5%;">\$100.00</td> <td style="width: 12.5%;">\$200.00</td> <td style="width: 25%;">Other: _____</td> </tr> <tr> <td>CORPORATE</td> <td>\$250.00</td> <td>\$500.00</td> <td>\$1,000.00</td> <td>\$2,000.00</td> <td>Other: _____</td> </tr> </table>	INDIVIDUAL	\$25.00	\$50.00	\$100.00	\$200.00	Other: _____	CORPORATE	\$250.00	\$500.00	\$1,000.00	\$2,000.00	Other: _____	
INDIVIDUAL	\$25.00	\$50.00	\$100.00	\$200.00	Other: _____								
CORPORATE	\$250.00	\$500.00	\$1,000.00	\$2,000.00	Other: _____								



NORTHEASTAIRE

ASHRAE - BOSTON CHAPTER

www.ashraeboston.org

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

ADDRESS SERVICE REQUESTED

FIRST CLASS MAIL
 POSTAGE
PAID
 W. KENNEBUNK, ME
 PERMIT NO. 12