2007 - 2008 Officers

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MAIN MEETING

The Greening of Boston - New Requirements for Sustainable Design and Innovative Energy Programs

Research & Promotion Night
Speaker: Jim Hunt

The City of Boston has recently implemented a number of sustainability initiatives under Mayor Menino and Jim Hunt’s leadership, particularly in the areas of green building policy, renewable energy and efficiency, and groundwater protection. In January, Boston became the first major city in the nation to require private development to follow the US Green Building Council’s LEED standards as part of the City’s zoning review process. Boston has also been recognized by the US EPA as the largest municipal purchaser of green power and biodiesel fuel in New England. This commitment to sound environmental and energy practices has led to the City of Boston being ranked the “7th Most Sustainable City” in the nation by SustainLane Government, a national organization dedicated to introducing innovative green practices to cities and towns across the US.

See “Meet the Speaker” on page 2

DATE: Tues., March 11, 2008
MEETING MANAGER: Steve Rosen
MEETING PLACE: Doubletree, Waltham, MA
TIME: 5:30 - 6:00 p.m. - Social half hour
6:00 - 7:00 p.m. - Dinner
7:00 - 8:30 p.m. - Main Program
COST: Members that RSVP $30.00
Members that do not RSVP $40.00
Non-Members $40.00
Student Members 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.

*** Tour of Genzyme Center - LEED Platinum Building ***

When: Tues., April 1
Time: 5:30 pm - Presentation followed by tour and dinner
Where: 500 Kendall Street, Cambridge, MA
Cost: Standard meeting costs apply - see above for details
RSVP: Chris Kerr - ckerr@sebesta.com by Fri., March 28

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PRESIDENT’S MESSAGE
By Steve Rosen

Our February joint meeting was very successful with AIA members joining us to hear two speakers from Autodesk & Integrated Environmental Solutions who have collaborated on software development to allow engineers to gain better building performance analysis support using building information modeling (BIM) workflows.

The Tuesday, March 11th meeting is Research & Promotion Night, so please bring our RP Chair, Darcy Carbone, a check!

We are continuing our year focusing on Green and Sustainable design with a presentation on The Greening of Boston by Jim Hunt, Chief of Environment and Energy, City of Boston.

In January, Boston became the first major city in the nation to require private development to follow the US Green Building Council’s LEED standards as part of the City’s zoning review process. Boston has also been recognized by the US EPA as the largest municipal purchaser of green power and biodiesel fuel in New England. This commitment to sound environmental and energy practices has led to the City of Boston being ranked the “7th Most Sustainable City” in the nation.

This upcoming meeting in Waltham, MA at the Doubletree will be a very popular event, so please RSVP as soon as you can. There are further details available on this site and in the newsletter.

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

Steve
Steven.rosen@autodesk.com

Meet the Speaker

Jim Hunt serves on Mayor Thomas Menino’s Cabinet as Chief for Environmental and Energy Services for the City of Boston. In this capacity, Jim Hunt is the Mayor’s lead advisor on environmental and energy policy and oversees several City agencies including the Inspectional Services Department, the Environment Department, Parks Planning, and Boston’s Recycling Program. Jim also serves as a Mayoral Appointee to the Board of Directors of the Massachusetts Water Resources Authority (MWRA) and as a Trustee on the Boston Groundwater Trust.

Prior to joining the City, Jim Hunt served as Assistant Secretary for the Commonwealth’s Executive Office of Environmental Affairs (EOEA) and was responsible for administering the Massachusetts Environmental Policy Act (MEPA). As administrator of the Commonwealth’s MEPA program, Jim was in charge of major project reviews for the state including downtown waterfront development, MBTA transit projects, and energy projects such as Cape Wind. Jim Hunt served on the Commonwealth of Massachusetts Ocean Management Task Force and served on the Environmental Oversight Committee for the Central Artery/Tunnel Project.

An attorney, Jim received his Juris Doctorate from Suffolk University Law School and his Bachelors Degree from the University of Massachusetts, Amherst. Jim serves on several non-profit boards, including the Boston Harbor Association, the Boston Groundwater Trust, and the Dorchester Youth Academy, an alternative middle school serving the at-risk youth or Boston.

Editor’s Note
By Teri Shannon

Materials for the April newsletter are due March 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.

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 Chapter Installation of Officers Tues. May 13

The Installation of Officers this May will be a special event. We will use the night to thank our many chapter sponsors for their tireless support. These sponsors buy golf foursomes, buy ads on our website, rent booths at our product show, and take out ads in our Roster & Product Guide. They are the financial backbone of our chapter, and their support frees up the board and officers to pursue excellence in their official and committee duties and not worry about chapter finances.

For 7 of the past 10 years, the Boston Chapter has won the #1 Chapter (out of 14 chapters) award at the CRC. This distinction is the Boston Chapter legacy of success.

The installation will be held at Anthony's Pier 4...Look for more information in the next NorthEastAire.
Young Engineers in ASHRAE (YEA) Leadership Week-end will be held May 2 – 4, 2008, in Atlanta, GA. Please visit the YEA site at: www.ashrae.org/yea for more information, including the registration form and testimonials from last year’s attendees. The detailed schedule will be posted on the web by March 10th.

It is important to support the integration of our young members into ASHRAE and build the future leaders of the industry. YEA Leadership Weekend is a great way for professional members age 35 and younger to get involved.

REGISTRATION CLOSES APRIL 4, 2008. Please email apruett@ashrae.org if you have any questions.

YEA Leadership Weekend is sponsored by the Young Engineers in ASHRAE Committee, whose primary objective is to enhance our member benefits for young professional ASHRAE members by identifying activities and services focused on their needs.

I would like to thank everyone who has so generously to the Research Promotion campaign. 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 energy conservation, food preservation, and improved operating room environments that result in fewer post-operative infections. We still have to raise about $12,000 this year (and then start on next year’s campaign). Every contribution is appreciated (large or small) as it takes participation by many members in order to support this important campaign.

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 as well for this year or for next year’s campaign.

The Boston Chapter contributed a major portion of this year’s goal from Chapter coffers. These funds are from the generous Hole/Prize Sponsorships in last year’s Golf Outing and also from the participants at last year’s Product Show. I want to thank all of these Companies that year after year support the Chapter and ASHRAE (full list is available in September 2007 Newsletter).

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!

The Student Activities Committee has posted the 3rd Annual Future Engineers Scholarship Application to the ASHRAE Boston website - www.ashraeboston.org. Applications are due May 30th.

Fourteen $2000 scholarships will be awarded to worthy recipients. Watch your mailbox for a postcard reminder instructing you to give a copy of the application to any high school seniors or first or second year college students that you know who will be pursuing an engineering curriculum.

Vanderweil Engineers, LLP has an opportunity for a Mechanical/HVAC Engineer to work in the downtown Boston office. This position would afford candidates exposure to high profile projects in the commercial, scientific and educational market sectors.

Work is based in the office in Boston while the clients’ sites are local, national and international. A majority of the work is MEP engineering related, also including LEED, green design and sustainable design challenges. Duties will consist of design of HVAC ductwork, sizing, related calculations and equipment selection. BSME or MSME along with EIT or PE is required, LEED certification a plus.

Salary commensurate with experience. Full benefits. EOE.

Please forward resume to: jobs@vanderweil.com

R. G. Vanderweil Engineers, LLP
274 Summer St
Boston, MA 02210
www.vanderweil.com
Attention Members:

Just a reminder that all members who 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

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**FEBRUARY MEETING RECAP**

*By Steve Rosen*

The ASHRAE Boston Chapter hosted a February meeting for 78 registered attendees, including AIA members of the Green Roundtable & Boston Society of Architects. Featured Speakers were Robert Middlebrooks, AIA an Industry Programs Manager with Autodesk, Inc. working with the AEC Solutions division, for the VP of Industry Strategy and Relations & Kevin Settlemyre, LEED AP with Integrated Environmental Solutions (IES) to integrate the analysis platform and to quantify the impacts of sustainable strategies while also conveying the carbon footprint during the different stages of the design process to inform decision making.

In two separate presentations the members learned about the evolution of technical building software and its effects on the way engineers can improve their methods of design and evaluation of project options especially with Green options. We looked at the current status of Building Information Modeling Software and the integration of engineering tools to that software. Some of the new tools available include day lighting evaluation energy modeling and Dynamic Thermal Simulation. These tools are being added to the BIM system to improve the way buildings are being evaluated.

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**Upcoming Webcast**

“Integrated Building Design: Bringing the Pieces Together to Unleash the Power of Teamwork.”

On April 16, 2008, ASHRAE’s Chapter Technology Transfer Committee (CTTC) will present a satellite broadcast and simultaneous webcast on “Integrated Building Design: Bringing the Pieces Together to Unleash the Power of Teamwork.”

Online registration for site coordinators and webcast viewers begins March 1 at [www.ashrae.org/ibdbroadcast](http://www.ashrae.org/ibdbroadcast).

Three PDH credits will be granted to those who view the program and then complete the Participant Reaction Form on our webpage following the broadcast.

An added benefit of a $50 discount will be taken off a one-year membership to anyone who joins ASHRAE as a new member in conjunction with the broadcast.

To view a promotional flyer, visit [www.ashraeboston.org/IBDPromotionalFlyer.pdf](http://www.ashraeboston.org/IBDPromotionalFlyer.pdf). For more information on the program and speakers, go to [www.ashrae.org/ibdbroadcast](http://www.ashrae.org/ibdbroadcast).

If you have questions, call (678) 539-1139 or email ashrae-SatelliteBroadcast@ashrae.org.

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**REMEMBER!**

Daylight Savings Time begins on March 9 this year! Don’t forget to set your clocks ahead!

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Howard McKew accepts George B. Hightower Award at the NY ASHRAE Show. See article on page 5 for more details.
ASHRAE Promotes “New” Sustainability Standard
ASHRAE/ACCA Standard 180

“Standard Practice for Inspection and Maintenance of Commercial Building HVAC Systems”

The creation of a Committee to write the Standard was approved during the ASHRAE winter meeting held in Anaheim, CA January 24-27, 2004 and finally has completed the Public Review process. Standard 180P was submitted to the ASHRAE Standards committee recently during the annual ASHRAE/AHR Expo in NYC January 20-24, 2008. This document has been approved by the Standards Committee on January 23, 2008 and has been sent to the ASHRAE BOD for publication approval.

This document was developed to provide a maintenance practice that can reduce HVAC system operational problems related to thermal comfort, energy usage and indoor air quality, (IAQ). It will establish minimum inspection points and/or maintenance intervals for HVAC air filtration systems in commercial, institutional, residential and public buildings.

The proposed Standard will define the maintenance required to minimize degradation of the building asset without compromising indoor air quality, thermal comfort, and other operational conditions. Standard 180 will also specify ventilation system periodic maintenance requirements for occupied indoor spaces. This Standard was co-written with ACCA, (Air-Conditioning Contractors of America).

Highlights of the proposed Standard include:

- Responsibility for compliance with this Standard will be on the building owner
- Each building must have a written plan that addresses 57 inspection/maintenance items required for HVAC components that are present in the building
- An additional list of 563 optional inspection and maintenance items that building owners/operators may wish to consider when preparing their individual plans.
- The Standard is written as a Code Intended Document, (CID) which uses mandatory code language…i.e. shall versus should.
- This Standard especially concentrates on those factors that impact thermal comfort, energy efficiency and indoor air quality, (IAQ) as to promote sustainability.

By: Stephen W. Nicholas, CAFS, TABS, NCT II...Steve is the President of Air Industries, Inc. an Independent HVAC Manufacturer’s Representative. Past Vice Chair of ASHRAE /ACCA Std. 180P, member of ASHRAE GPC-26, ASHRAE Std. 52.1, ISO TAG-TC 142 and Past President of the NAFA, 2006-2007.

ASHRAE Award Notice

At this past winter ASHRAE conference in NYC, our own Boston member, Howard J. McKew, P.E., CPE, was awarded the George B. Hightower Award. This award is to honor recognition of significant and exceptional service in the area of technical leadership and technical contributions.

A member of ASHRAE since 1976, Howie is currently the Director of Building Solutions at RDK Engineers and has been active with the Society national level for almost 30 years. He has held and/or participated in various technical point-of-view and assisted in the format that was used to score people nominated for this award. The following is a list of the categories with Howie’s contributions that qualified/earned him the award:

1. 2011 Handbook Committee member with 4 other individuals responsible for the entire handbook
2. 2004 & 2008 Responsible for Chapters 1 thru 5 updates
3. Author/Reviser of individual Chapters
Chapter 4, 1984 when I got the dual fan-double duct concept into the handbook as the most energy efficient double duct system. It is the "standard" today for double duct systems
Chapter 4 in 2004
4. Reviewer of Chapters 1 thru 5
5. Technical Inquiries (from ASHRAE to review papers for upcoming conference seminars and/or the ASHRAE Journal)
He gets 2 or 3 of these a year from ASHRAE to review going back several years
6. Outstanding Technical Leadership and contributions during the past Society year:
Chapters 1 thru 5 of the 2008 will embrace the ASHRAE Handbook Improvement Workshops because the chapters he was responsible for achieved the following:
- Recruited new (younger) engineers to participate in reviewing chapters routinely assigned to more experienced engineers; This provided a fresh look at chapters
- Included the "do-over" of all system flow diagrams to provide consistency in the quality of the diagram
- Included a "System Analysis & Selection" matrix per chapter to assist in selecting the optimum system for the application
- All CAD & matrix are available for downloading when using the "electronic" Handbook
- Addressed commissioning, sustainability, security, and facility management

With his 2008 handbook assignment he believes that they have set the standard for future Handbooks and will now broaden this to the entire 2001 Application Handbook. He hopes to improve the 2011 with consistency in chapter-by-chapter format and availability of electronic documents and CAD system flow diagrams.....Outstanding job!!!! Congratulations from all of the Officers, BOG’s and Committee Chairs of the Boston Chapter.
Upcoming Events

New England Facilities Expo
When: March 19 - 20, 2008
Where: Seaport World Trade Center, Boston, MA
FMI: www.facilitiesexpo.com

Tour of Genzyme Building [ADDED MEETING!]
When: April 1, 2008
Where: Genzyme, Cambridge, MA
FMI: snicholas@airinds.com

Boston Chapter Product Show
When: April 15, 2008
Where: Lantana’s, Randolph, MA
FMI: Jeff Schultz, jhs@brplusa.com

Young Engineers in ASHRAE (YEA) Leadership Seminar
When: May 24, 2008
Where: Atlanta, GA
FMI: Steve Rosen, Steven.rosen@autodesk.com

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

Student Activities

By Joshua Benoist

The Boston Chapter is currently looking to expand our Student Chapter branches. We’d like to increase the amount of colleges involved, and we really should be able to gain more based on the amount of engineering colleges out there.

We need some champions, maybe some Alumni to step up to the plate and liaison between our chapter and any contacts at their college or university. We need an Alum or faculty member that is willing to devote some time. 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.

Potential colleges (With Applicable Engineering Courses) we would like to target are:

♦ Massachusetts Maritime Academy
♦ Wentworth Institute of Technology, Boston
♦ Harvard, Cambridge
♦ University of Massachusetts - Any Campus
♦ Boston University, Boston
♦ Northeastern University, Boston
♦ Tufts University, Medford
♦ Worcester Polytechnic Institute, Worcester

Please contact us at Joshua.Benoist@Autodesk.com.

The 2008 Future Engineers Scholarship has kicked off its third season. Applications should be available on the chapter website.

Please spread the word.

Webmaster’s Note

By Steve Rosen

The Boston Chapter for ASHRAE has launched its redesigned website at www.ASHRAEBoston.org. Look for new features every month!

This month, to coincide with our February History meeting, we have posted an excellent history of our State of Massachusetts. You can locate this under the heading About Us, under the sub-heading, Chapter Facts. Thank your chapter historian, Jim Liston, for this great report!

There are new photos posted from events at the New York Winter Meeting. These can be located under the heading Connections, under the sub-heading, Society Meetings.

We have also posted the PowerPoint presentations from the February meeting. Look under the heading Chapter Updates and the sub-heading, Past Presentations.

This year, all our Chapter Board meetings are paperless. In addition to our Speakers allowing us to post these presentations for our members to review after the meetings, 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.

ATTENDANCE

The Boston Chapter of ASHRAE - February 08 Meeting
Had 56 in attendance:

45 ASHRAE Members
5 AIA Members
2 Non Members
2 Student
The Boston Chapter of ASHRAE
American Society of Heating, Refrigerating, and Air Conditioning Engineers

Cordially invites you to the

**2008 Biennial Chapter Product Show**

**Tuesday, April 15th, 2008**

Seminars 3:30 PM-7PM  
Product Show 3 PM -8:30 PM  
Free buffet style dinner 6-8 PM

Lantana  
43 Scanlon Drive  
Randolph, MA  
www.thelantana.com

Kindly RSVP via email to ckerr@sebesta.com by March 31st, 2008
2008 Biennial Chapter Product Show

Exhibitors (as of 2/28/08)

Air Distribution Corporation
Air Industries, Inc.
Alfieri Proctor Assoc.
Belimo Aircontrols
BELL / SIMONS
Boston Air Products
Buckley Assoc.
Burnham Commercial
Carrier Corporation
Climate Energy
Conservation Solutions Corporation
Control Consultants Inc. / Tridium
Control Technologies
DAC Sales
Distributor Corp. of New England
Eaton Corporation
ENE Systems, Inc.
Filter Sales & Service
Fluid Transfer Products, Inc.
FMC Technologies, Inc.
Frank I. Rounds Co.
Green Technology Assoc., LLC
Grinnell Mechanical Products
Honeywell
Honeywell ECC
Honeywell Analytics
HITS Engineering
J.S. Fleming Associates, Inc.
Kasten & Company Inc.
Kenyon-Barstow Co.
K-Flex USA
Kirschner Associates, Inc.
Leonhardt Co., Inc.
Martin Engineering Co. Inc.
Mechanical Solutions, Inc.
New England Combustion Products, Inc.
Noble Associates, Inc.
Northeast Air Solutions, Inc.
Oak Hill Market / Munters Corp.
Process and Energy Measurements
R.T. Forbes Co.
Regan Marjollet, Inc.
Reserved for your company
Stebbings Duffy, Inc.
TAC
Técogen, Inc.
Trane
Trumbull Campbell Associates, Inc.
Urell Inc.
Victaulic
W.A. O’Leary Co.

Seminars Schedule

To be announced in the April NorthEastAire and online at www.ashraeboston.org

Vendors!

We still have a few booth selections available, so act now so you don’t find yourself outside looking in!

Contact:
Jeffrey Schultz
Phone: (617) 925-8242
E-mail: jhs@brplusa.com
Or go online to: www.ashraeboston.org
What’s New in our Chapter

By Pat Duffy

Meeting Minutes of the Board of Governor’s
February 12, 2008 Meeting

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

Below is a quick summary of what was discussed:

ASHRAE Research Promotion
The Boston Chapter of ASHRAE has completed 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. If you would like to donate to research and promotion contact Darcy Carbone, the research and promotion chair.

CTTC Reaching out
The CTTC committee is looking into reaching out to the major towns and cities of Massachusetts to offer our assistance if required for energy saving tips and suggestions. Letters have been sent out to town engineers.

Boston ASHRAE Chapter Historical Library
The Boston Chapter will be establishing a Historical Library to house the chapters HVAC&R Artifacts, Books, and other miscellaneous items. The Historical Library will be located at the BR+A office in Watertown. Any members interested in visiting the Library can contact any members of the board to setup a time to visit.

Chapter Website
The Chapter now has a new-revamped website to help keep chapter members up to date on chapter news and events. If your company would like to place an ad on the website, it can for the ad price of $300.

BASC
The Boston Chapter of ASHRAE Sustainability Committee is currently looking into a possible lab seminar, possibly 4 hours in length. More information to follow as this develops.

Genzyme Tour
A tour of the Genzyme Center building that has received the Platinum LEED rating has been scheduled to take place on April 1st. The tour will be in addition to the Product show, which will be held April 15th.

This Year’s Meetings
Anyone interested in seeing what 2008 has in store, please check out the Events Calendar on the Chapter Website for additional information. All Board of Governor’s meetings are going to remain at 4:30pm the day of the meeting.

Product Show 2008
The Bi-annual Boston Chapter Product Show will once again be held on April 15th at Lantana’s. There will be (8) seminars, approx. 1.5 hours long each, held the majority of which will offer PDH credits. The topics are still in discussion. If you would like to reserve a table the fee is $875 per booth. Jeff Schultz will once again be running the product show, and you can contact him at anytime to reserve a table.

Membership
Our Membership Chair wanted to remind all members to make sure their dues are paid up in full. Unsure as to whether you are up-to-date or not? Please be sure to check Society’s website www.ashrae.org or contact our Membership Chairperson Dan Cooke for more membership information.

Student Activities
Joshua Benoist is working on developing additional student chapters at colleges and universities in Massachusetts. He is striving to continue to expand the student involvement in ASHRAE, so that the next generation of engineers can be engaged at an early point in their development.

See you at the next meeting!!

Presidential Award of Excellence

Boston Chapter - 2007 - 2008

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<th>Chapter Members</th>
<th>Membership Promotion Points</th>
<th>Student Activities Points</th>
<th>Research Promotion Points</th>
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In the early 1830’s, Joseph Nason, a young American from New England, found his way to England seeking backing for an improved gas lighting burner, but found no interest. Instead, he ended up installing early hot water heating systems for fellow American Angier March Perkins (born in Newburyport in 1799). Nason recognized that this technology had a bright future back in the United States. Nason wrote about Perkins' apparatus to his brother-in-law in Boston, James Jones (JJ) Walworth, that "a success might be made of this in our cold climate," and the pair in 1841 bought the New York City branch office of the Russell pipe company. While at this early stage the exact nature of their business is not clear (accounts suggest it was limited to selling pipe and fittings), they did install a Perkins hydronic heating apparatus in the New York estate of Ebenezer Melleken, which was reported to be "doing good work" forty-seven years later. In any event, Walworth & Nason moved to Boston the following year to take advantage of the colder New England climate.

The Walworth Manufacturing Company began in 1842 as Walworth and Nason (W&N), under the operation of James Walworth in partnership with Joseph Nason. Later that year, Walworth and Nason installed the first US steam-heating system in the counting house of Middlesex County. During this timeframe, their business was primarily as engineers and iron tube manufacturers in the heating industry. Walworth's first manufacturing plant was established in 1843 at Blake's Court, Boston. Before long, this new company was involved in the installation of boilers, hot water and steam heating systems in large buildings, textile mills and ships.

These men were pioneers in the nascent central heating industry. Heating contractors and the science of central heating installation did not exist. The conventional stoves and hot air furnaces used in the mid-1800's were largely inadequate due to the fact that they relied heavily on convection for distribution. The W&N Company met the need for centralized heating systems at a most appropriate time. The creativity of Walworth and Nason led them to build finned pipes coiled into compact enclosures to produce what we would now simply call a radiator. This new invention made life much more pleasant in hotels, churches, theatres and homes. W&N are credited with the installation of central ventilation systems using steam driven fans (see previous Historian articles on Sturtevant Fan Company), as well as hot water pipes run under the floors (a very early radiant heating method). By the 1850’s, W&N where involved in major installations throughout New England, Mississippi, Virginia and at least one in Florida.

In the early 1850’s, W&N installed the first central heating system at the White House, including the two newly added wings. Each wing had steam heating apparatus, including separate basement boiler plants. The new steam systems replaced hot air apparatus installed c. 1813 by Daniel Pettibone, a Massachusetts mechanic, who in 1808 was granted a patent for a "rarifying air stove".

In 1852, the partnership of Walworth and Nason was dissolved, mainly because Joseph Nason was unable to stand the severe winters of Boston. He moved to New York and set up a similar business which he carried on successfully until his death. As a result of his pioneering efforts in the field of central heating systems, Nason would later become known as "the father of steam heating". Following the dissolution of the W&N partnership, J.J. and C.C. Walworth moved the company on to remarkable success under a new name, J.J. Walworth & Co., a name which stayed with the company for many years. They soon installed a line of gas generators to allow gas lighting in factories, farms, hospitals and homes in areas where gas was not available due to the distance from the larger cities that provided it. Rosin, oil and gasoline were used as fuel and these machines were popular up until the early 1900's when electricity became a more practical alternative.

The company had always used valves to properly control the flow of steam, water and gas in their many installations. They began to expand on a line of globe, gate and check valves, which was to become their main business.

Part II will appear in April issue of NorthEastAire.

Annual Golf Outing

The Boston Chapter is planning the 43rd Annual Golf Outing and Banquet, to be held at the Country Club at Halifax, in Halifax, MA, on MONDAY, JUNE 2, 2008.

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 9, 2008.

A donation of fifty dollars would be most welcome and greatly 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 13 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 Engineering, Inc.
88 Black Falcon Ave., Suite 210
Boston, MA 02210

Very truly yours,
ASHRAE Golf Outing Committee
Bill Garvey, Chairman
43rd ANNUAL ASHRAE
BOSTON CHAPTER GOLF OUTING

Date: MONDAY, JUNE 2, 2008

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 9, 2008.

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: 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 Engineering, Inc.
        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 WILL 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 Engineering, Inc.
88 Black Falcon Ave., Suite 210
Boston, MA 02210

NAME: __________________________________________________________________
ADDRESS: _______________________________________________________________
__________________________________________________________________________
PHONE: ____________________________________
E-MAIL: __________________________________________________________________
<table>
<thead>
<tr>
<th>Date</th>
<th>Main Program</th>
<th>Speaker</th>
<th>PDH Credits</th>
<th>Meeting Manager</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>September</strong></td>
<td></td>
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<tr>
<td>Tuesday, September 25, 2007</td>
<td>Opening Meeting!! Join us for a tour of the TD Banknorth Garden</td>
<td>N/A</td>
<td>N/A</td>
<td>Teri Shannon</td>
<td>TD Banknorth Garden - Boston</td>
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<td>N/A</td>
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<td><a href="mailto:tshannon@dac-hvac.com">tshannon@dac-hvac.com</a></td>
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<td><strong>October</strong></td>
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<tr>
<td>Tuesday, October 9, 2007</td>
<td>Fuel Cells</td>
<td>Jim Horwitz</td>
<td>Approved for 1.5 PDH’s</td>
<td>Jim Shiminski</td>
<td>Doubletree - Waltham</td>
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<td><a href="mailto:jshiminski@dac-hvac.com">jshiminski@dac-hvac.com</a></td>
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<td><strong>November</strong></td>
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<td>Tuesday, November 13, 2007</td>
<td>Mechanical Design for Green Buildings</td>
<td>Thomas Lawrence, Ph.D., P.E. - Distinguished Lecturer</td>
<td>Approved for 1.5 PDH’s</td>
<td>Enrique de los Reyes</td>
<td>Doubletree - Waltham</td>
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<td><a href="mailto:er@energysystemsdesign.com">er@energysystemsdesign.com</a></td>
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<td><strong>December</strong></td>
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<tr>
<td>Tuesday, December 11, 2007</td>
<td>Efficient Chillers &amp; Pumping Stations</td>
<td>Jackson Ball, Smartd, Inc.</td>
<td>Approved for 1.5 PDH’s</td>
<td>Fran Boucher</td>
<td>Lantanas - Randolph</td>
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<td><a href="mailto:francis.boucher@us.ngrid.com">francis.boucher@us.ngrid.com</a></td>
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<td><strong>January</strong></td>
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<tr>
<td>Tuesday, January 8, 2008</td>
<td>Overview of ANSI/ASHRAE/IESNA Standard 90.1</td>
<td>Larry Spielvogel - Distinguished Lecturer</td>
<td>Approved for 1.0 PDH</td>
<td>Bryan Hermanny</td>
<td>Doubletree - Waltham</td>
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<td><a href="mailto:bmh@brplusa.com">bmh@brplusa.com</a></td>
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<td><strong>February</strong></td>
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<td>Tuesday, February 12, 2008</td>
<td>“BIM There, Done That!” BIM (Building Information Modeling)</td>
<td>Robert Middlebrooks, AIA AEC Solutions, Autodesk</td>
<td>Approved for 1.5 PDH’s</td>
<td>Steve Bosland</td>
<td>Doubletree - Waltham</td>
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<td><a href="mailto:sbosland@eypac.com">sbosland@eypac.com</a></td>
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<td><strong>March</strong></td>
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<td>Tuesday, March 11, 2008</td>
<td>The Greening of Boston</td>
<td>Jim Hunt, Chief for Environmental &amp; Energy Services for the City of Boston</td>
<td>Pending</td>
<td>Steve Rosen</td>
<td>Doubletree - Waltham</td>
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<td><a href="mailto:steven.rosen@autodesk.com">steven.rosen@autodesk.com</a></td>
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<td><strong>April</strong></td>
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<td>Tuesday, April 1</td>
<td>Tour of Genzyme Bldg - Note: Added Meeting!</td>
<td>N/A</td>
<td>N/A</td>
<td>Steve Nichols</td>
<td>Genzyme - Cambridge, MA</td>
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<tr>
<td>Tuesday, April 15, 2008</td>
<td>Product Show</td>
<td>N/A</td>
<td>Pending</td>
<td>Jeff Schultz, Bill Garvey</td>
<td>Lantanas - Randolph</td>
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<td><strong>May</strong></td>
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<td>Tuesday, May 13, 2008</td>
<td>Installation of Officers</td>
<td>N/A</td>
<td>N/A</td>
<td>Jeff Schultz</td>
<td>Anthony’s Pier 4</td>
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<td><strong>June</strong></td>
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<tr>
<td>Monday, June 2, 2008</td>
<td>Golf Outing</td>
<td>N/A</td>
<td>N/A</td>
<td>Bill Garvey</td>
<td>Poquoy &amp; Halifax Country Clubs</td>
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<td><a href="mailto:bgarvey@seicompanies.com">bgarvey@seicompanies.com</a></td>
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STEPPINS-DUFFY
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WAKEFIELD, MA  01880

Name:_____________________________________________________________________________________________

Company: __________________________________________________________________________________________

Address: ___________________________________________________________________________________________

TEL: _____________________________________________________

$25.00 $50.00 $100.00 $200.00 Other: ____________

INDIVIDUAL

$250.00 $500.00 $1,000.00 $2,000.00 Other: ____________

CORPORATE

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.

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