



2008 - 2009 Officers



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President



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MAIN MEETING

Building Information Modeling - Technology for Fully Integrated Design and Construction



Speaker: Gordon Holness, PE, Fellow ASHRAE

This presentation explores the recent global developments in software and software protocols for Building Information Modeling (BIM) as a tool for fully integrated design and construction. Building Information Modeling is a still emerging technology that has yet to reach anything close to its full potential. However the technology can already clearly demonstrate its overall benefits in terms of coordinated design, shorter design & construction schedules, significant cost reductions, job site safety improvements and even more sustainable construction programs.

Questions that will be discussed include:

- ⇒ What is the primary purpose of BIM?
- ⇒ Why does ASHRAE see this as an important tool?
- ⇒ What can BIM achieve to help ASHRAE reach its goals?
- ⇒ Who are the primary users of BIM?
- ⇒ What have been the primary benefits of BIM to date?
- ⇒ What are the key issues limiting its acceptance?
- ⇒ Does everyone need to be trained in application software in order to use this tool?
- ⇒ What other tools are coming down the track to further enhance the application of BIM?

See "Meet the Speaker" on page 2

DATE: Tues., March 10, 2009

MEETING MANAGER: Steven 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 - 8:00 p.m. - Main Program

COST:

Members that RSVP	\$35.00
Members that do not RSVP	\$45.00
Non-Members	\$45.00
Students	Free

**** All major credit cards are now accepted for payment ****

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., March 6.

This Month's Menu

Appetizer:

Tomato Basil Bisque

Entrée:

Chicken Francais (w/
lemon herb cream
sauce)

Dessert:

Chocolate Hazelnut
Torte

Special dietary needs
can be met; let Dan
know when you RSVP

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PRESIDENT'S MESSAGE

By Jeffrey Schultz

This year as your Chapter President has flown by fast, we have just two more meetings, along with our chapter installation dinner and then the golf outing which is always a hit. Even though the economy is struggling and people in the HVAC field are losing their jobs, they still make it to the monthly meetings to network and to learn what's new or enhanced in the industry that will help them when they rejoin the workplace.

February there was held an additional Breakfast Meeting on "Transpired Solar Collectors" at National Grid's office in Waltham. Thank you to National Grid for sponsoring another morning meeting for the Chapter this year.

Mark your calendars for the next meeting on March 10th (at the Double Tree – Waltham); this is a Research & Promotion Night. The topic for this month's meeting will be on "ASHRAE & Building Information Modeling" and will be presented by ASHRAE Society President-Elect, Gordon Holness, PE. Please RSVP for the meeting by March 6, 2008 at Noon time to Dan Denisi (ddenisi@brplusa.com). We need to have an accurate head count to the hotel and walk-in space is limited.

Jeffrey Schultz, President



REMINDER!

Daylight Savings Time begins on **March 8** this year! Don't forget to set your clocks ahead!



Editor's Note

By Teri Shannon

Materials for the April newsletter are due **March 23rd**.

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.

Meet The Speaker

Gordon V.R. Holness P.E. is Chairman Emeritus of Albert Kahn Associates, Inc. Architects and Engineers, in Detroit. He retired from the firm in 2001 having served for over 32 years including roles as Chief Mechanical Engineer, Treasurer, Board Member, President and CEO. He currently serves in a consulting capacity and as an expert witness for design and construction issues

He is a Professional Engineer, registered in 42 States and 5 Provinces. He is a chartered engineer in the United Kingdom.

He has over 50 years experience in design and construction, specifically in mechanical engineering and HVAC&R services for industrial, health care and institutional buildings in England, Canada and the United States.

He joined The American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) in 1965 and is currently Society President-Elect serving on the Board of Directors and the Executive Committee. He is Chair of Members council and the Advocacy Committee and chairs the Steering Committee on Building Information Modeling and Interoperability. He has won 12 Regional and National Awards for Technology and Energy Conservation.

He has written numerous articles and is a frequent speaker in such areas as Improving Energy Efficiency in Existing Buildings, Building Information Modeling, and Integrated Building Design

Future Engineers Scholarship 2009

The **2009 Future Engineers Scholarship** Application is available for downloading at the Boston Chapter website: ASHRAEBoson.org.

Through the generosity of our partnership with the donor, Mr. Chai Srisirikul, the ASHRAE Boston Chapter Future Engineers Scholarship Committee administers the selection of recipients and distribution of **fourteen \$2000 scholarships**. Eligible recipients are High school seniors interested in studying engineering in college or first or second year engineering students; students must live, or attend school in the state of Massachusetts.

The scholarship was established in 2006 and has distributed over \$76,000 since its inception. Please encourage students you know to pursue and engineering curriculum and tell them about the Future Engineers Scholarship 2009. **Applications are due by March 27, 2009.**



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!

We're not there yet!

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 in 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 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

ASHRAE members can also go to www.ashrae.org/research and get free reports of the latest completed research including:

- 1182 – Filed Testing and Analysis of High Altitude Installation of Gas Fired Furnaces
- 1143 – Reference Procedure to Obtain Typical Solar Spectra for Advanced Solar Heat Gain Calculations
- 1167 – The Effect of Ganging on Pollutant Dispersion from Building Exhaust Stacks
- 1247 – Balcony Spill Fumes
- 905 – Catalog of Material Thermal Property Data
- 970 – Condensation-Induced Hydraulic Shock Laboratory Study

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

Thank You!



FEBRUARY MEETING RECAP

By Jeffrey Schultz

This past month we had another great speaker and presentation, keeping up with our Chapter theme of sustainability. In attendance for the meeting there were over 90 members, of those members there were six Past Presidents.

Our speaker of the evening was Ken Loudermilk (VP of Technology & Development for Trox, USA), who gave his presentation on “Chilled Beam Cooling Systems”. Mr. Loudermilk’s presentation discussed the design and application of chilled beam systems. There were many slides on conceptual design and application as well as a few actual installations. Mr. Loudermilk also stressed how correct design and application is the key to achieving a cost effective system. During the course of the presentation Mr. Loudermilk gave the members time for Q&A during his presentation. This meeting was approved for 1.5 PDH points for those attendees that had signed the PIE form.

This month there was also an additional Breakfast Meeting on “Transpired Solar Collectors” at National Grid’s office in Waltham. Thank you to National Grid for sponsoring another morning meeting for the Chapter this year.



L to R: Ken Loudermilk, Speaker, and Jeffrey Schultz, Chapter President

Attention Members - We're Looking For You!!

The Boston Chapter has a few positions open for the upcoming year:

- Newsletter Editor
- Historian

If you're interested in becoming more involved with the Chapter, please contact one of the Chapter officers to express interest.



CCTC - TEGA Article

By Darcy Carbone

Economic Stimulus Bill Reinforces Importance of Energy-Saving Standard 90.1

ATLANTA—In the economic stimulus package just signed into law by President Obama, ANSI/ASHRAE/IESNA Standard 90.1-2007 and its energy-saving features are recognized through special funding measures.

For states to receive additional funding from the \$16.8 billion allotted to the Department of Energy, Office of Energy Efficiency and Renewable Energy, governors would be required to work toward implementation of a building energy code at least as stringent as Standard 90.1-2007 and to develop a plan for achieving 90 percent compliance with the code, including provisions for training and enforcement programs.

“For more than 30 years, Standard 90.1 has been one of the building industry’s most important benchmarks for energy efficiency,” says ASHRAE President Bill Harrison. “Its inclusion in the economic stimulus package demonstrates not only its importance in the building industry, but the importance and economic potential of saving energy and promoting energy-efficient technologies.”

Standard 90.1 provides minimum requirements for the energy-efficient design of buildings in the United States, except low-rise residential buildings. Written during the 1970s energy crisis, ASHRAE Standard 90.1 first was published in 1975 as an effort to cut energy use in buildings. The 2004 version of the standard is referenced in the U.S. Energy Policy Act, which requires states to adopt commercial building codes that meet or exceed the standard’s requirements.

ASHRAE has set a goal of making the standard 30 percent more stringent over the 2004 version by the 2010 publication.

The stimulus package, the American Recovery and Reinvestment Act, focuses on economic stimulus through both tax credits and public-sector spending, with a heavy focus on infrastructure and energy. Several provisions are of interest to and could bring new opportunities to the building sector, including:

- Tax credits for the production of renewable energy are extended until at least 2012
- Research expenses associated with renewables, conservation, and carbon capture and sequestration could result in higher credits in 2009 and 2010
- The Department of Energy is authorized to provide grants up to 30% of the cost of installation of items such as fuel cells, solar, small wind, geothermal heat-pumps, and combined heat and power systems
- Department of Energy, Energy Efficiency and Renewable Energy receiving \$21.4 billion for research, weatherization assistance, grants and other programs
- Department of Labor receiving \$750 million for job training, with significant focus on emerging industry sectors including energy efficiency and renewable energy
- Federal agencies are receiving considerable funds for retrofitting and upgrading existing facilities to meet federal energy and water use requirements and alleviate any maintenance backlogs

For more information on ASHRAE government affairs, please visit www.ashrae.org/advocacy.

Source: ASHRAE’s Government Affairs



Membership Promotion

By Dan Cooke

Boston Chapter member Leon R. Glicksman, Ph.D., was elevated to the grade of Fellow ASHRAE at the Society’s 2009 Winter Conference in Chicago.

Fellow ASHRAE is a membership grade that recognizes distinction in the arts and sciences of environmental technology. The honor is earned through achievement as a researcher, designer, educator or engineering executive.

ATTENDANCE

**The Boston Chapter of ASHRAE -
February 09 Meeting
Had 90 in attendance,
Including 6 Past Presidents**



Student Activities

By Joshua Benoist

We want to thank all of our Students that attend our meetings. We realize it's a great opportunity for you to get to know our industry, to learn about industry issues and to network. We also realize it is a great opportunity for us to meet you and share our knowledge and passion for the industry. If you were to ask any one of us why we got started in the business, you would receive a diverse range of answers. I suspect that many of us enjoy the thought that we can point to a building and say to our children or peers, I helped design and build that. Some would say with pride, our designs help our buildings be more energy efficient. We have a direct responsibility and role in minimizing the energy and global warming crisis.

So speaking of responsibility, don't forget we have a responsibility to mentor, to pass on our knowledge, and just as important, to generate passion. We cannot succeed if there is no interest in our industry. How many of us, thinking back when we were younger, said we want to grow up to be an HVAC engineer? Probably not many, but someone or something pulled us into the industry and inspired us to stay here. Who else is going to do that for the next generation but you, and ASHRAE.

If you are still reading this, then maybe we have caught your interest. There are many in which you can contribute, none of which takes much effort or time. The simplest way is to attend our regular ASHRAE chapter meetings. When you do, don't choose to sit in the usual spot. Look around for a young engineer or student and sit next to them. Engage them in conversation. Don't assume that someone else will take up that role or that you are somehow not the right person for the job. If you are at our meeting, you likely have valuable experience to share, so make a difference.

We have one new item of business. We have student(s) that have contacted us looking for help finding summer interns or co-op positions.

If you want more information or wish to volunteer, please feel free to contact us at Joshua.Benoist@Autodesk.com.

Please spread the word!



ATTENTION SKIERS!

SUNDAY RIVER & SUGARLOAF DISCOUNT SKI VOUCHERS

The Boston Chapter is participating in the Sunday River/ Sugarloaf corporate voucher program. You will be entitled to purchase up to four discounted lift tickets [\$63 Adults, \$44 Junior/Senior] at either ski resort by presenting an ASHRAE membership card, picture ID, and voucher. There is no cost for the vouchers.

Contact Jeff Schultz (jhs@brplusa.com) or Ed Waldman (ewaldman@verizon.net) if you would like any vouchers. They will also be available at the January meeting. Complete rules below:

How To Use Vouchers

1. Bring your corporate voucher to any participating resorts ticket window.
2. Present your voucher, photo ID, and valid ASHRAE membership card to the ticket seller. In the absence of the individual member, immediate family members defined as spouse and children, must present some form of ASHRAE identification, plus a photo ID in order to receive the discount.
3. Each person expecting the corporate pricing must be present with the corporate voucher holder at the time of ticket purchase. The ticket seller will take the voucher in exchange for up to 4 lift tickets.

For information on schedules, conditions, etc., please visit the following websites:

Sunday River - www.sundayriver.com
Sugarloaf - www.sugarloaf.com



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



Historian's Column

By Jim Liston

HISTORICAL ITEMS DONATION

I recently received a telephone call from Mr. Tony Digiaco-
mo. Mr. Digiaco-
mo is a retired refrigeration technician
and a long-standing member of ASHRAE. During his ca-
reer, he worked for local firms Baystate York and Balco,
and also worked for refrigeration equipment manufacturers
Frick and Westinghouse.

Mr. Digiaco-
mo is in the process of downsizing, and he no
longer has the room to store his collection of refrigeration
and ASHRAE memorabilia. As a result, he has generously
volunteered to donate a portion of his remaining library to
the Boston Chapter. Mr. Digiaco-
mo previously donated
some of his technical publications to the Boston Chapter's
historical collection (currently being archived by Bob Bar-
stow, immediate past Chapter Historian). As I indicated to
Mr. Digiaco-
mo, any duplicate technical publications, ASH-
RAE Handbooks, etc. will be offered to our Student Chap-
ters for inclusion in their libraries. In addition, Mr. Digi-
aco-
mo has several pieces of testing equipment used for field
measurements, which will also be offered to our Student
Chapters for use as teaching aides and to further their
knowledge of HVAC and refrigeration systems and equip-
ment.

The Boston Chapter will carefully catalog all of the docu-
ments and equipment donated by Mr. Digiaco-
mo prior to
their inclusion in our library at BR+A. At an upcoming
History Night during a Monthly Chapter Meeting, we will
publically display some of our newest additions.

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 jlis-
ton@berry.com. We are very interested in preserving the
history of our Chapter.

Upcoming Events

Northeast Buildings & Facilities Management Show & Conference

When: June 10 & 11, 2009

Where: Boston Convention & Exhibition Center, Boston

FMI: www.proexpos.com

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

SOCIETY NEWS

ASHRAE Publishes Load Calculations Manual

ATLANTA – Guidance to help designers improve the per-
formance and efficiency of design as it relates to load cal-
culations is contained in a new book from ASHRAE.

Load Calculation Applications Manual focuses on two
methods for calculating cooling loads in non-residential
buildings – the heat balance method and the radiant time
series method (RTSM).

Author Jeffrey Spitler noted that understanding these meth-
ods is crucial when answering three primary design ques-
tions – what is the required equipment size; how do the
heating/cooling requirements vary spatially within the
building; and what are the relative sizes of the various con-
tributors to the heating/cooling load?

“Cooling load calculations are performed primarily to an-
swer the first and second questions, providing a basis for
specifying the required airflow to individual spaces within
the building,” Spitler said. “Answers to the third question
help designers make choices to improve the performance
or efficiency of the design.”

The new manual features in-depth examples, as well as
bringing together the latest data for building materials,
windows, weather and internal heat gains, according to
Spitler. The accompanying CD contains spreadsheets that
compute the factors needed by the RSTM and compute
cooling loads with the RSTM.

The manual is the fourth in a series of load calculation
manuals published by ASHRAE, including the first and
second editions of Cooling and Heating Load Calculation
Manual as well as Cooling and Heating Load Calculation
Principles.

The cost of the Load Calculations Applications Manual is
\$119 (\$97, ASHRAE members). To order, visit
www.ashrae.org/bookstore.

*ASHRAE, founded in 1894, is an international organization of
some 50,000 persons. ASHRAE fulfills its mission of advancing
heating, ventilation, air conditioning and refrigeration to serve
humanity and promote a sustainable world through research,
standards writing, publishing and continuing education.*

Happy 
St. Patrick's Day



What's New in our Chapter

By Pat Duffy

Meeting Minutes of the Board of Governor's February 10, 2009 Meeting

Below is a quick summary of what was discussed:

This Year's Meetings

Anyone interested in seeing what the remainder of the 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.

Chapter Positions for Next Year

If you are interested in getting involved with the chapter, we are currently looking to fill several positions. Contact one of the officers to express interest.

Breakfast Meetings

There is a breakfast meeting this month hosted by National Grid on "Transpired Solar Collectors" with Pat Will of DAC speaking. 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.

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!



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 NorthEastAire! 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.

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	160	1,280	520	410	1,045	1,165	4,580

Annual Golf Outing

The Boston Chapter is planning the 44th Annual Golf Outing and Banquet, to be held at the Country Club at Halifax, in Halifax, MA, on **MONDAY, JUNE 1, 2009**.

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 15, 2009**.

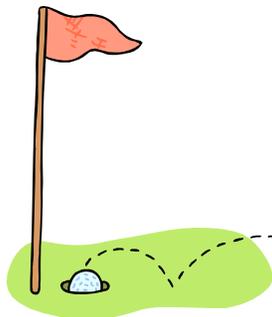
A donation of fifty dollars would be most welcome and more would be great appreciated! All donations will be publicly acknowledged by being published in the NorthEastAir bulletin.

We also welcome Hole Sponsorship. If you are interested in participating, please return the completed form (found on page 10 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, WSP Flack + Kurtz
88 Black Falcon Ave., Suite 210
Boston, MA 02210**

Very truly yours,
ASHRAE Golf Outing Committee
Bill Garvey, Chairman



44th ANNUAL ASHRAE BOSTON CHAPTER GOLF OUTING

- Date: MONDAY, JUNE 1, 2009
- 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 15, 2009.**
- 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. **The format this year has been changed to a Bramble Format. A Bramble starts off like a Scramble where each team member tees off and the best drive is selected. However, in a Bramble, after the best drive is selected, all team members from that point on will play their own ball, stroke-play style, until each team member has holed out. Each team member must use (2) of the drives during course 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 @ WSP Flack + Kurtz
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 @ WSP Flack + Kurtz
88 Black Falcon Ave., Suite 210
Boston, MA 02210

NAME: _____

ADDRESS: _____

PHONE: _____

E-MAIL: _____



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	CSI Specification Changes ASPE Joint Meeting	Robb Wilkinson	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	1.5 PDH's Approved	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 Hermanny 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

OFFICERS

President
Jeffrey Schultz, BR+A
617-925-8242
jhs@brplusa.com

President-Elect
Bryan Hermann, BR+A
617-928-8295
bmh@brplusa.com

Vice President
William Garvey, WSP Flack+Kurtz
617-210-1711
william.garvey@wspfk.com

Secretary
Patrick Duffy, BR+A
617-925-8255
pjd@brplusa.com

Treasurer
William Garvey, WSP Flack+Kurtz
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