



# NORTHEASTAIRE

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

XXXXVI No. 82

October 2009

Editor: Stacie Suh TEL: 781-258-1002

## 2009 - 2010 Officers



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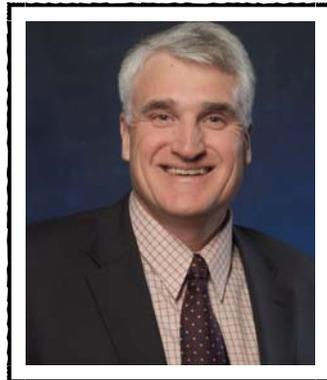
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## MAIN MEETING

# Case Studies in High Performance Ventilation and Cooling

*Tuesday, October 13, 2009*



### MEET THE SPEAKER

As a Project Director and over 20 years of consulting experience, Dr. Sinclair provides technical direction and leadership over a wide range of projects involving the science of high performance buildings. This includes integrated design issues with: ventilation, energy, comfort, air pollution, fire safety, and wind engineering. He has a Ph.D. in Mechanical Engineering and is a member of ASHRAE and NFPA. Ray has over 20 technical publications and participated in many presentations at ASHRAE meetings and sustainable design conferences such as GreenBuild and NESEA.

### Featured Speaker:

*Ray Sinclair, Ph. D.*  
*RWDI—Principal*

Ray's experience has been beneficial in the design of high-performance buildings, helping to achieve: energy efficient building envelopes; novel and efficient cooling and air distribution systems; cost-saving designs in atrium smoke control; comfortable low draft environments; and also to reduce risk of exposure to contaminants or flammable mixtures.

<b>DATE:</b>	Tuesday, October 13, 2009
<b>MEETING MANAGER:</b>	Bryan Hermann
<b>LOCATION :</b>	Doubletree Guest Suites 550 Winter Street Waltham, MA 02451
<b>TIME:</b>	5:30 - 6:00 p.m. - Social Half Hour 6:00 - 7:00 p.m. - Dinner 7:00 - 8:00 p.m. - Main Program
<b>MEETING FEES:</b>	
<b>Chapter Members</b>	<b>\$35.00</b>
Non-Chapter Members	\$45.00
Walk-in	\$45.00
Student Members	<b>FREE</b>

Note: Please bring cash or check for this meeting. Credit card machine will not be available.

**RSVP Deadline for this meeting is 12:00pm on Friday, October 9, 2009**

**RSVP Cancellation Deadline for this meeting is 12:00pm on Friday, October 9, 2009**

Please only RSVP to Dan Denisi at [dcd@brplusa.com](mailto:dcd@brplusa.com)

Upon receiving RSVP, a confirmation email will be sent back to confirm your reservation. If you have not received a confirmation email, you will need to RSVP again.

Thank you  
Bryan Hermann

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## PRESIDENT'S MESSAGE

*By Bryan Hermanny*

The Gillette Stadium tour was a big success, we completely filled the RSVP listing in one day, which is fantastic. Thanks goes out to Steve Nicholas for organizing the tour, and for also linking the ASHRAE Chapter to the Boston and Worcester Chapters of AFE (Association for Facilities Engineering). It's always nice to start off a season with a tour of a sports arena!

We have a great meeting coming up on October 13th. Ray Sinclair from RWDI will present Case Studies in High Performance Ventilation and Cooling and it should prove to be an excellent presentation. Ray has presented at our engineering firm and he is well versed and an excellent resource. I encourage you all to bring your questions, he will be a big help for you and your engineering needs.

Along with a great meeting in October, we also have a couple other items going on during the meeting. It is our Membership Promotion Night, so bring someone along to the meeting who may be interested in joining. Having them attend a meeting may be enough to sway them into signing up for the benefits that ASHRAE provides. In addition to this, October will also be a Student Member night, so we encourage students and their advisors to come by for the educational seminar as well. And lastly, but certainly not least, we will also get a visit from our Region I DRC, Spencer Morasch from the New Jersey Chapter, during our October meeting. Please welcome Spencer when he interacts with everyone and show him why we have one of the best Chapters in the Region.

On another note, the Chapter will begin to monitor who are members and who are non-members to correctly charge people who attend the meetings. We have let this fall to the side as of late, but as with everyone else in today's economy, we need to make sure that we are getting proper due. Please bring along your member ID number and inform Dan Denisi when making RSVP's. If you are currently not a member but would like to join, please contact Teri Shannon at tshannon@dac-hvac.com. She will be more than happy to assist you in any way for your membership.

See you at the next meeting

*Bryan Hermanny, President*



### Editor's Note

*By Stacie Suh*

Materials for the November newsletter are due **October 30**. 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 781-258-1002 or [Stacie@stebbinsduffy.com](mailto:Stacie@stebbinsduffy.com).

You can also visit the Boston Chapter website at <http://www.ashraeboston.org/committees/northeastaire.html>



### **This Month's Menu**



#### **Appetizer:**

**Tri-color Tortellini with Pesto Cream Sauce**

#### **Entrée:**

**Roasted NY Sirloin w/ a Mushroom Port Sauce (Chef's choice of potato & vegetable)**

#### **Dessert:**

**Tiramisu w/ Crème Anglaise**

**Special dietary needs can be met: Please let Dan Denisi know when you RSVP.**

**For additional information & directions to the meeting, please visit: <http://www.ashraeboston.org>**



## CTTC - TEGA Article

By Paul Hanbury

### Intel says data centers much too cold Frozen assets a waste of cash

Intel wants you to know that data centers are wasting energy - and money - by over-cooling their servers, burdened by warranties that may prevent them from aggressively raising their temperature.

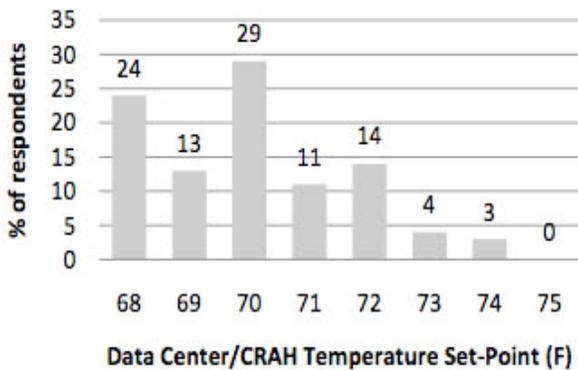
During a wide-ranging discussion on enterprise-level cloud computing last week, Intel's director of platform technology initiatives in the company's server platform group, Dylan Larson, pointed reporters to a recent energy-efficiency study (<http://download.intel.com/pressroom/archive/reference/IPACK2009.pdf>) conducted by representatives from Intel, IBM, HP, Liebert Precision Cooling (a division of Emerson Network Power), and the Lawrence Berkeley National Lab.

That study included results from a recent Liebert survey of members of the Data Center Users Group (DCUG) that showed that each and every one of the respondents are cooling their data centers significantly more than needed.

The "than needed" figure is 27°C (80.6°F), as recommended by no less than the leading US cooling-industry consortium, the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE).

The ASHRAE recommendations were published last year in the consortium's "Environmental Guidelines for Datacom Equipment," which raised their 2004 high-end recommendation for inflow temperature from 25°C (77°F) to 27°C (80.6°F).

Of the 98 respondents to the DCUG survey, however, none had a computer-room air handling (CRAH) inflow temperature higher than 74°F (23.3°C), and the majority chilled their air to 70°F (21.1°C) or below. Cooler heads say that chilling below 81°F wastes money - survey says everyone does it.



This info came up when Intel's Larson was discussing Advanced Cooling Environment (ACE) technology intended to provide a closed-loop monitoring and management system to allow servers to safely rise to that ASHRAE max. Doing so would save a tremendous amount of power.

As he explained it, "The [wasted] power comes from the fans in the CRAC units running overtime to push cool air into the system" - CRAC units being computer-room air-conditioning units, like CRAHs.

"If you can reduce how much the fan has to work by even a small percentage, you get a substantial improvement in power,"

he said, "and reducing the fan requirement by half reduces power consumption by something like 87 per cent."

Chilling the air, of course, also requires a significant power outlay, but getting the servers to tell the CRAC units exactly how much cooling they need and exactly when they need it isn't as straightforward as it might sound.

"This has been a pretty interesting ride," Larson explained, "The CRAC vendors run a totally different protocol than the server vendors, which run IPMI or WS-MAN. The CRAC vendors run Modbus and another protocol that are completely orthogonal." Translation: Servers and cooling systems don't speak the same language.

However, says Larson, "Working together with that industry to map a communication of those protocols can help us make a pretty dramatic reduction in power consumption by reducing the level of cooling required."

Of course, CRAC-unit vendors aren't motivated to step up and say that overly cool data centers are wasting power and money, seeing as how some of that money goes to them for more-powerful cooling systems.

But Larson is optimistic. "Believe it or not, we've been able to work with CRAC-unit vendors like Liebert and Emerson to look at how we can actually manage to get to a point of addressing reductions in power by managing temperature more effectively."

Perhaps CRAC dealers with enlightened self-interest will find increased profits in retrofitting their installed bases with power-management intelligence.

But when asked about a specific data center that has been rumored to be trying some aggressively higher inflow temperatures - up to even 100°F (38°C) - Larson said: "I don't think they're breaking our requirements yet because we have a warranty association with that."

**Continue on page 4.**



## Historian Column

By Eric Edman

I do not have any special news of historical importance to bring to your attention this month. For those of you who actually read the newsletter, we added a trivia column to spice things up. Hope you like it.

Again, I'd love to listen to any creative ideas that think inside AND outside the box. Please drop a dime (okay quarter today), I do still use an old fashioned historical telephone as well as modern day email. Your input is very valuable and I'm always willing to listen.

Thanks again.

*Eric Edman, Historian*

# HISTORY TRIVIA QUESTIONS

By Eric Edman

For those who caught this last month, here's a few trivia questions for October 2009.

- A. What was the first air conditioned building in Boston? Who engineered it?
- B. What two organizations merged to form ASHRAE and when?
- C. Who invented the first modern humidifier?
- D. Who is the oldest heating contractor still in business in Boston?
- E. What is the specific gravity of water?
- F. What is the specific heat of copper?
- G. When did SMACNA form?
- H. What is a boiler horsepower?
- I. Why do steam systems have blowdown?

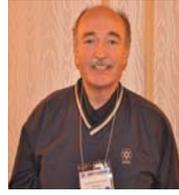
Take a stab at these questions. Answers will be published next month.

How many of you are going to "Google" the questions for answers?

Take a stab at these questions



Answers will be published next month and probably



## Research Promotion

By Jeff Schultz

Welcome to the 2009-2010 year of the Boston Chapter of ASHRAE. As your past President from last season, it will be my responsibility to raise money for the Society's research funds. Since its' inception, ASHRAE has conducted research to advance the arts and sciences of HVAC&R and allied disciplines for the benefit of the general public. Today, ASHRAE funds over \$2 million in research annually.

These funds are used for grants, scholarships and much more, in order to advance the HVAC industry for a sustainable future. Be a part of our future and donate what you can to the Society's Research Promotion.

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](http://www.ASHRAEBoston.org). Click on the Donation Form under Research & Promotion, or go there directly with this link: <http://www.ashraeboston.org/researchpromo/donationform.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](https://www.ashrae.org/aboutus/resource_promotion.asp)

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

Thank you!

## CTTC - TEGA Article

Continued from page 3

When asked about Intel's policy when it comes to spreading the higher-temperature gospel, Larson said: "I'll be honest. We are pretty conservative about quality at Intel. We do get people who say, 'Hey, give me some relief on my ability to get warranty for your products when I run them really, really hot.' We haven't really done that. But we do know that we can meet the requirements of ASHRAE in this context."

So take a look at your warranties. Although Intel's Larson says that he doesn't see a wave of warranty renegotiation in the near future, he does suggest that ASHRAE's guidelines are sound.

Just don't try to sell him on a 100°F data center. ®

By [Rik Myslewski in San Francisco](#)

Posted in [Servers](#), 31st August 2009 11:02 GMT

# HISTORY TRIVIA

## ANSWERS

By Eric Edman

- What was the coldest recorded temperature in Boston and when?  
Minus 18 (-18) deg F -Feb 9<sup>th</sup>, 1934. This handily beats the minus 13 record set on Jan 24, 1882
- What was the warmest record temperature in Boston and when?  
Plus 104 (+104) deg F- July 4<sup>th</sup>, 1911. The day before was plus 103.
- What automobile first offered “air conditioning” as an option. Manufacturer, model and year?  
The Packard was the first automobile manufacturer to build air conditioners into its cars, beginning in 1939. These air conditioners were originally optional, and could be installed for an extra.
- Who invented the pneumatic Thermostat?  
Professor Warren Johnson patented a pneumatic thermostat in 1895 that was the first application for regulating heating systems and subsequently became an Industry standard. The company as we know of today is Johnson Controls.
- What year was the first building air conditioned and where was it?  
In 1902, the first modern electrical air conditioning unit was invented by Willis Carrier in Buffalo, NY. After graduating from Cornell University, Carrier, found a job at the Buffalo Forge Company. While at Buffalo Forge, Carrier began experimentation with air conditioning as a way to solve an application problem for the Sackett-Wilhelms Lithographing and Publishing Company in Brooklyn, NY. In July 1902, the first "air conditioner," designed and built in Buffalo by Carrier, began working in Sackett-Wilhelms Lithographing and Publishing Company in Brooklyn.
- The slide rule was replaced by the calculator, what year did the slide rule stop getting made?  
Apparently, you can still purchase slide rules from a company in Japan. We had understood Kueffel and Esser of Germany had stopped production in 1982 as the pocket calculator was far more practical and efficient.
- When did AutoCad first make it's appearance to the market?  
AutoCad 1, release 1 was launched in December 1982.



## Student Activities

By Joshua Benoist

In this newsletter, I have something personal to say. Cheryl Rossini recently passed away and worked for many years on our committee. She was the Student Activities Chairman before me. She was a valued resource, a mentor and a great friend. I really looked up to her and appreciated the guidance. She will be missed and her family is in our prayers. I will be taking on the activities that she was performing, and those are big shoes to fill. She left us with an awesome legacy.

Our existing Student Chapters should already have my information, but just to be sure, my contact information is below. I will be contacting each of them soon.

The Boston Chapter is looking to expand the student activities committee. We would like to increase the student attendance at our Boston Chapter meetings and our student chapter membership. We need volunteers to visit student chapters and share our knowledge. Anyone with children active in grade school, high school, boy scouts or girl scouts can educate our students, or help scouts earn badges by teaching our children about engineering, energy and/or our environment. If an opportunity comes along, even an opportunity to slip in a fifteen minute speech with QnA time in front of a class, please let us know and go for it. This activity also helps us to advance our student chapter goals of being active in the student community. We need more champions and our children really are our future!!!

We are looking for volunteers to speak at our existing student chapters.

Please feel free to contact us at

[Joshua.Benoist@autodesk.com](mailto:Joshua.Benoist@autodesk.com) or 603-206-9122

# SEPTEMBER 2009 MEETING RECAP

By Bryan Hermanny



Photo by Mike Barnes

Our September 30th tour of Gillette Stadium went over extremely well. It was a joint meeting with the Boston and Worcester Chapters of AFE and everyone seemed to enjoy themselves. Kevin Slein, Director of Operations at Gillette, was kind enough to give members a brief overview of the Stadium's systems, capacities, and design parameters, which was very interesting. We then had the opportunity to walk through the tunnels of the stadium to see the boiler plant and pumps, a few air handling units, the outdoor air-cooled chiller plant and emergency generator.

The topper was the ability to walk along the outside track of the field itself, giving everyone a fantastic view of the field and stadium. The tour ended in the Lower Level of CBS Scene where everyone socialized and enjoyed heavy appetizers for a meal and with over 150 people in attendance it also made a great networking opportunity for everyone as well.

Thanks again goes out to Kevin Slein for the tour, Bob Persechini for assisting in the tour, and Steve Nicholas for organizing the joint meeting.



Bryan Hermanny (ASHRAE Boston chapter President) and Steve Nicholas (AFE Chapter Vice President & ASHRAE Boston Chapter Secretary)  
Photo by Mike Barnes



Kevin Slein telling to Keep off the Grass!  
Photo by AFE 74



Teri Shannon, ASHRAE Boston Chapter Membership Promotion  
Photo by Steve Rosen



Photo by Steve Rosen



Photo by Steve Rosen



## Membership Promotion

By Teri Shannon

The October 13<sup>th</sup> meeting is designated as a Membership Promotion meeting. New members who bring a completed application, along with a check for their first year's dues, can attend this meeting free of charge. Members at the Associate grade level who bring a completed upgrade application can attend a future dinner meeting free of charge, after the upgrade has been approved by Society. Please send me an email at [tshannon@dac-hvac.com](mailto:tshannon@dac-hvac.com) if you need an application or have any questions. You may also download an application from the ASHRAE Society website ([www.ashrae.org](http://www.ashrae.org)).

The January 13<sup>th</sup> meeting will also be designated as a Membership Promotion Night / Young Engineers in ASHRAE Night. We will have some special promotions for that meeting as well; stay tuned for details.

On another note, we'd like to request that you please provide your membership ID number when sending an RSVP for the monthly meetings. You can find your ID number on your membership card, or at [www.ashrae.org](http://www.ashrae.org). Log in using your e-mail address and password, then go to the "Update Your Bio" link at the left of the page, under the "Member Central" heading.

Cheers,  
Teri

## **UPCOMING EVENTS**

### **GreenBuild International Conference & Expo**

When: November 11-13, 2009  
Where: The Phoenix Convention Center  
Phoenix, AZ  
FMI: <http://www.greenbuildexpo.org/>

### **AHR Winter EXPO**

When: January 25-27, 2010  
Where: Orange County Convention Center  
Orlando, FL  
FMI: <http://www.ahrexpo.com/>



## Webmaster's Notes

By Steve Rosen

The award winning website for the ASHRAE Boston Chapter can be found at [www.ASHRAEBoston.org](http://www.ASHRAEBoston.org)

We will be keeping the site current with information; check back often!

On the Employment page (under the Chapter Updates section) not only will you see job opportunities, but we are now accepting resumes to post for free from any ASHRAE member in good standing looking for work!

Let employers find you on the ASHRAE Boston website!

We will continue this year to post past meeting presentations for our members to review, and our Chapter is continuing our efforts to reduce waste by eliminating printed handouts at our meetings.

As always you will also be able to link to following:

- Chapter officers and committee chairs contact information (who's who)
- Chapter monthly meeting info (when, what, where)
- Region I website, and view the Chapter history
- Sign up for the e-mailed newsletter
- Confirm attendance at the monthly meeting
- ASHRAE membership information

And also view the following:

- Current chapter newsletter, past newsletters, upcoming events and future meetings
- Other functional Chapter committee pages; Membership, RP, SA, Programs, CTT.
- Most recent and past BOG/Meeting minutes



## What's New in our Chapter

By Stephen Nicholas

## Meeting Minutes of the Board of Governor's September 14, 2009 Planning 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:

### October Meeting

Region DRC Spencer Morasch will be attending the meeting at Doubletree and Mike Rossini will be receiving a plaque. It will also be a membership night.

### November Meeting

The DL speaker will be Drury Crawley, Ph.d. It will be a joint meeting with AEE. The PDH credit TBD. It will be great meeting consisting of History Night, Research & Promotion Night and Donors Recognition Night.

### December Meeting

It will be joint meeting with ASPE. Peter Mathieu will be the featured speaker for the meeting. The PDH credit TBD.

### Chapter Regional Conference (CRC) 2012

CRC 2012 will be hosted by Boston Chapter. Darcy Carbone is the committee chair for CRC 2012 and Bob Persechini is the committee co-chair. Gala event. The Boston chapter is very excited to host this event.

### Student Activities

Dan Diorio will be assisting Josh Beniost who is Student Activities committee chair.

### Membership

Our Membership Chair (Teri Shannon) wants to remind all members to make sure their dues are paid up in full and non members please sign up to get connected. Unsure as to whether you are up-to-date or not? Please be sure to check Society's website [www.ashrae.org](http://www.ashrae.org) or contact Teri Shannon for more membership information.

See you at the next meeting!

## **Presidential Award of Excellence**

### **Boston Chapter - 2009-2010**

Chapter Members	Membership Promotion Points	Student Activities Points	Research Promotion Points	History Points	Chapter Organization Points	Chapter Technology Transfer Points	Chapter PAOE Point Totals
952	210	0	0	160	510	75	955

**High-Profile** Monthly  
Facilities Development News  
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Next Issue:  
Editorial submissions and  
advertisement reservation  
deadline October 23.

# Build BOSTON

25th annual Build Boston  
November 18-20, 2009  
Seaport World Trade Center

Come meet us  
at booth 456

Free editorial and discount advertisements for ASHRAE members  
Prospective clients want to know who you are and what you have accomplished before they hire you for a job. We now offer ASHRAE members the opportunity to answer those questions with free editorial and discount advertisements in *High-Profile Monthly* reaching 20,000 readers who are owners, developers, facilities managers, architects, contractors and those responsible for the built environment.

For more information contact Michael, Anastasia or David at 781-294-4530 or e-mail [editor@high-profile.com](mailto:editor@high-profile.com).

# SOCIETY NEWS

## Carbon Monoxide Alarms Proposed for ASHRAE Residential Ventilation Standard

ATLANTA – In a change that would bring its residential ventilation and indoor air quality standard closer in line with that of the 2009 International Residential Code, ASHRAE is proposing that carbon monoxide alarms be required in homes.

Under proposed addendum *l* to ANSI/ASHRAE Standard 62.2-2007, *Ventilation and Acceptable Indoor Air Quality in Low-Rise Residential Buildings*, carbon monoxide alarms would be required to be installed outside of each sleeping area. The proposed addendum is open for public comment until Oct. 26, 2009.

Nine other addenda, unrelated to CO, also are open for review. Steve Emmerich, chair of the Standard 62.2 Committee, said that as the standard becomes more widely used as a result of its adoption into building codes and green building programs, several clarifications are being addressed through proposed changes.

Carbon monoxide (CO) poisoning leads to hundreds of deaths and thousands of injuries each year in homes. Such poisoning results primarily from automobiles left running in attached garages but also from portable generators, power tools and heaters, according to Emmerich. A small fraction of poisonings also result from failed central heating combustion appliances.

“Residents have very little ability to sense the presence of CO without detectors, unlike many other indoor polluting events,” he said.

Whether to include CO alarms as a requirement in the standard has been discussed since the standard was first proposed. Debate has focused on the unreliability and cost of alarms.

But Emmerich said the committee believes the time has come to make this change, noting that it will bring the standard into closer alignment with the 2009 International Residential Code, which requires alarms if the house has combustion appliances or attached garages, and with many states that have passed laws requiring CO alarms.

“This proposed requirement goes a step further, expanding the protection to all homes, regardless of fuel type or garage configuration, reflecting the fact that many CO exposures occur due to causes completely independent of these factors,” he said. “It also requires that alarms be hard-wired with battery backup to address an increased likelihood of high CO exposure events during power outages.”

Also open for public comment is proposed addendum *s*, which would give credits for different types of residential ventilation systems. The proposed change increases mechanical ventilation system flow rates for systems that are unbalanced or not fully ducted, unless they have a provision for mixing. Emmerich said this is a fairly significant change that has been under extensive study by the committee.

Standard 62.2 addenda open for public comment until Oct. 11 are addenda *m*, *n*, *s* and *t*, while those open until Oct. 26 are *j*, *l*, *o*, *p*, *q* and *r*.

To view a copy of the addenda open for public review, go to [www.ashrae.org/publicreviews](http://www.ashrae.org/publicreviews). Copies of public review drafts are only available during public review periods.

For Release: September 29, 2009  
Jodi Dunlop, [jdunlop@ashrae.org](mailto:jdunlop@ashrae.org)

## FUTURE ENGINEERS SCHOLARSHIP 2009

The Boston Chapter of ASHRAE Officers and Board of Governors are pleased to announce the recipients of the 2009 Cheryl M. Rossini Future Engineers Scholarship. Each student will receive a \$2,000.00 scholarship towards their studies in engineering at their chosen college or university.

Cheryl Rossini was a past President of the Boston Chapter of ASHRAE who passed away on May 29th at the age of 41 after a long and courageous battle with cancer. She co-founded this scholarship four years ago and put all of her efforts into making this scholarship possible for future engineers.

As a result, the scholarship name has been changed to The Cheryl M. Rossini Future Engineers Scholarship in order to honor her efforts.

The 2009 Cheryl M. Rossini Future Engineers Scholarship recipients are:

Andrew G. McGlathery  
Ana Dede  
Annie E. Macedo  
Jullian A. Sauer  
Ashley L. Martin  
Alex R. Jarvis

Mathew E. Costa  
Keith M. Hall  
Derek W. Lagasse  
Sarah Erickson  
Thomas D. Hunter  
Louis L. Reid II

Congratulations to all the winners, we wish you hearty congratulations and a bright engineering future!

# Boston ASHRAE 2009 - 2010 Meeting Schedule

Date	Main Program	Speaker	PDH Credits	Meeting Manager	Location
<b>September</b>  Wednesday, September 30, 2009	Gillette Stadium Tour  AFE joint Meeting	  Plant Tour	NA	Steve Nicholas  <a href="mailto:snicholas@airinds.com">snicholas@airinds.com</a>	Gillette Stadium
<b>October</b>  Tuesday, October 13, 2009	Case Studies in High Performance Ventilation and Cooling  Student Meeting/ Membership Night	Ray Sinclair RWDI	TBD	Bryan Hermann  <a href="mailto:bmh@brplusa.com">bmh@brplusa.com</a>	Doubletree - Waltham
<b>November</b>  Wednesday, November 18, 2009	Are High Performance Buildings Really Performing?  History Night / Research & Promotion Night / Donors Recognition Night/ AEE Joint Meeting	Drury Crawley, Ph.d  DL Speaker	TBD	Dan Diorio  <a href="mailto:diorioda@bc.edu">diorioda@bc.edu</a>	Doubletree - Waltham
<b>December</b>  Tuesday, December 8, 2009	UL Listings for Fire Rated Assemblies  ASPE Joint Meeting	Peter Mathieu	TBD	Bill Garvey  <a href="mailto:william.garvey@wspfk.com">william.garvey@wspfk.com</a>	Doubletree - Waltham
<b>January</b>  Tuesday January 12, 2010	Don't Do Stupid Things  Membership Night/YEA	Joe Listiburek	TBD	Steve Nicholas  <a href="mailto:snicholas@airinds.com">snicholas@airinds.com</a>	Doubletree - Waltham
<b>February</b>  Tuesday February 9, 2010	Building Integration  BSA Joint Meeting/ Past President's Night/YEA	Allan Ames	TBD	Pat Duffy  <a href="mailto:pjd@brplusa.com">pjd@brplusa.com</a>	Doubletree - Waltham
<b>March</b>  Tuesday March 9, 2010	Design Management for Performance  Research & Promotion Night	David Allen	TBD	Joshua Benoist  <a href="mailto:Joshua.benoist@autodesk.com">Joshua.benoist@autodesk.com</a>	Doubletree - Waltham
<b>April</b>  Tuesday, April 13, 2010	2010 Product Show		TBD	Jeff Schultz  <a href="mailto:jhs@brplusa.com">jhs@brplusa.com</a>	Lantanas
<b>May</b>  Tuesday May 11, 2010	Installation Of Officers		TBD	Bill Garvey  <a href="mailto:william.garvey@wspfk.com">william.garvey@wspfk.com</a>	TBD
<b>June</b>  Monday June 7, 2010	Golf Outing	N/A	N/A	Bill Garvey  <a href="mailto:william.garvey@wspfk.com">william.garvey@wspfk.com</a>	Halifax Country Clubs



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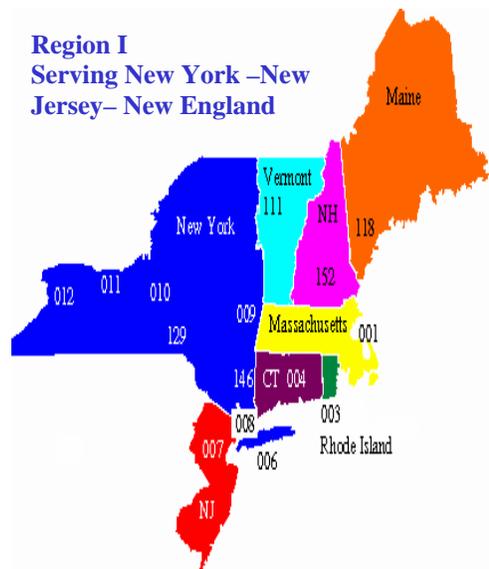
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