



# NorthEastAire

ASHRAE - American Society of Heating, Refrigerating and Air-Conditioning Engineers  
Boston Chapter, Region 1 [www.ashraeboston.org](http://www.ashraeboston.org)

XXXXV No. 56

February 2007

Editor: Teri Shannon TEL: 207-985-0873

**2006 - 2007 Officers**



Darcy Carbone,  
*President*



Steve Rosen,  
*President-Elect*



Jeff Schultz,  
*Vice-President*



Bill Garvey,  
*Treasurer*



Bryan Hermanny,  
*Secretary*

**MAIN MEETING**

**Healthcare Facilities—Best Practice HVAC Design Considerations & Criteria**

Featured Speakers: Anand Seth, P.E. CEM, CPE & Milt Goldman, MD, P.E., LEED-AP

**Course Summary:** Based on a portion of the ASHRAE book HVAC Design Manual for Hospitals and Clinics, this course will introduce many of the healthcare unique and up-to-date design considerations.

**Course Abstract:** This Short Course covers information published in ASHRAE's best seller, HVAC Design Manual for Hospitals and Clinics. Fundamental and up-to-date design considerations for HVAC systems serving healthcare facilities will be presented by industry experts.

**Course Learning Objectives:**

- How to utilize the features in the ASHRAE publication, HVAC Design Manual for Hospitals and Clinics.
- Medical terminology and procedures.
- Room design criteria - infection control methods, temperature, humidity, sound, and ventilation trends.
- Unique load calculation considerations including medical equipment heat gains.
- Designing for existing facilities, including infection control issues during construction and risk management.
- Smoke and life safety issues for hospitals.

*See page 2 for speakers' bios*

**Table of Contents**

President's Message..... 2

Meet the Speakers..... 2

Editor's Note..... 3

January Meeting Recap..... 3

Sustainability Committee... 4

Student Activities..... 4

Roster & Product Guide..... 4

Employment Ads..... 5

Webmaster's Note..... 5

CTTC—TEGA Article..... 6

PAOE..... 6

BOG Meeting Mintues..... 7

Research Promotion..... 8

Historian's Column..... 8

Officer & Committee List... 9

Meeting Schedule 06-07.... 10

Contributor Listing/  
ASHRAE Research..... 11

**DATE:** Tues., February 13, 2007

**MEETING MANAGER:** Dan Cooke

**MEETING PLACE:** DoubleTree, Waltham

**TIME:** 5:15 - 5:45 p.m. - Social half hour  
5:45 - 8:45 p.m. - Dinner & Main Program

**NOTE NEW TIME FOR THIS MEETING!**

<b>COST: Members that RSVP</b>	<b>\$30.00</b>
Members that do not RSVP	\$40.00
Non-Members	\$40.00
First 5 Student RSVP's	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.

**RSVP: Patrick Duffy— [pjd@brplusa.com](mailto:pjd@brplusa.com) by Fri., Feb. 9**

**This Month's Menu**

Appetizer:

Tomato Basil Bisque

Dinner Salad:

Classic Caesar Salad

Entrée:

Roast Stuffed Breast of  
Chicken with stuffing

Dessert:

Tiramisu w/ Crème  
Anglaise

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



## PRESIDENT'S MESSAGE

By: Darcy Carbone

Dear Boston Chapter Members,

I would like to start by thanking Mr. Ray Grill again for his informative presentation at last months meeting. I would also like to thank the attendees of last months meeting for the wonderful feedback we received. There were many comment sheets that simply said "excellent", but others said a little more such as "this is a very involved subject and as such it is hard to determine how intricate to make it...I think a good middle ground was found...". Please remember that these meetings are for the members and we value any and all of your input. We would also like to hear any suggestions you may have for potential future meeting.

I am very proud to inform all of you that we have averaged 115 members at the technical meetings we have had this term. This is the highest attendance average in years and one of the reasons that I am very excited about what we have planned for the next meeting.

At this months meeting we are going to be trying something new and different. We have planned a 3 hour seminar to be presented during our dinner meeting this month. We have been approved for 3 PDH's!!!! I am very grateful that Mr. Anand K. Seth, P.E., CEM, CPE of Sebesta Blomberg & Associates for helping me out. Our original speaker called with regrets that he wasn't going to be able to come to Boston. We are in the process of rescheduling that meeting on Internal Design Integration to next year and will keep you updated. After panicking for a while, I then thought of asking my boss, Anand to speak. He suggested that he would present the seminar that he and a college were going to be presenting at the AHSRAE winter meeting. Anand called upon his college Milton S. Goldman, MD, P.E., LEED-AP (Green Buildings Engineering, LLC), who created the presentation, and asked him to come to Boston to do the presentation with him. Milton accepted the invitation and the rest will soon be history. This is the same seminar they will have presented as a short course in Dallas at the ASHRAE Winter Meeting, which covers information published in ASHRAE's best seller, HVAC Design Manual for Hospitals and Clinics. I am hoping that by giving you an advance notice, you can make arrangements to attend this incredible seminar.

One other announcement that I am proud to present is that Terry Townshend, ASHRAE President, will be coming to visit our Chapter in March with a presentation on sustainability. Please plan to attend this special occasion as well!

Cheers,

Darcy Carbone  
President – Boston Chapter ASHRAE

## Meet the Speakers

Anand K. Seth, P.E. CEM, CPE



Mr. Seth is an engineering professional with more than 30 years of experience in designing, operating or optimizing building systems in healthcare, high tech research laboratories, industrial and educational building systems engineering, with the emphasis on healthcare. Mr. Seth has managed a successful energy and utility conservation program for several world-class institutions including Harvard University and Massachusetts General Hospital. As an example at Massachusetts General Hospital, the program resulted in cost avoidance of \$50 million over 15 years.

He brings proven engineering expertise in engineering sustainable design, project management, master planning, infrastructure analysis, central energy plants and facility operations. He has been responsible for permitting, design, installation, and commissioning of several very complex projects.

Mr. Seth is a registered professional engineer in several states, a Certified Energy Manager as well as Certified Plant Engineer.

Photo  
Unavailable

Milt Goldman, MD, P.E., LEED-AP

Milt Goldman is a graduate of Emory University School of Medicine, Baylor University Residency Programs (Surgery & Urology), and University of Wyoming in Architectural Engineering (Mechanical Option) and is licensed as a Professional Engineer (Mechanical) in Indiana and Georgia. He has participated in hospital development/construction from the standpoints of Board Member, Medical Staff President, Chief of Surgery, Chief of Urology, Professor, Laboratory Designer and Chairman of Infection Control Committee.

Publications & Research:

- ASHRAE's HVAC Design Manual for Hospitals & Clinics, Committee Member & Contributor, 2003
- "IAQ and Hospital Design", IAQ Applications, 2003
- "Hospitals and SARS", IAQ Applications, 2003
- "Operating Room Airflow & Pressurization, Dallas ASHRAE Meeting, 1999
- "CFD & PIV Analysis of Operating Room Air Distribution, in progress at Georgia Institute of Technology (ME), with Dr. Sheldon Jeter

# JANUARY MEETING RECAP

By Darcy Carbone

## “Strategies for Reducing the Impact of Smoke Management”,

Presented by Raymond Grill, P.E.

Mr. Grill provided an informative presentation on designing smoke management exhaust systems, including atrium requirements. His presentation included an overview of the applicable Codes, including recent changes to the 2006 IBC and NFPA 92B that impact the modeling methods used during design. He discussed balcony spill plumes and the equations required under the 2006 IBC. He indicated that ASHRAE is currently undertaking a research project studying the impact of the velocity of make-up air used in smoke management exhaust systems.

He described how performance based design and modeling techniques (with the prior approval of the AHJ) can be used to substantially reduce the impact of smoke management exhaust systems on the building. These techniques include CFD (computational fluid dynamics) programs and Fire Dynamic Simulators. When using these methods, he indicated that it is critical to establish performance criteria (temperature, radiation effects, visibility and CO levels) and building evacuation timeframes.

He concluded by indicating that the Codes are currently in a state of flux, and it is incumbent on the design engineer to understand all of the issues that could possibly impact the design of their specific smoke management exhaust system.



Raymond Grill and Darcy Carbone, Boston Chapter President



## ATTENTION MEMBERS!!!

### DATE CHANGE FOR THE MARCH MEETING!!!!

Please note the March meeting will now be held on Tuesday, **March 20**. We are very honored to have Terry Townsend, President of ASHRAE, visit our chapter to discuss sustainability.

We look forward to seeing you there!

## ATTENDANCE

The Boston Chapter of ASHRAE -  
January 9, 2006 Meeting  
Had 85 in attendance:

80 ASHRAE Members  
4 Non-Members  
1 Student



## Editor's Note

By Teri Shannon

Effective with this issue, there will be new rates for ads. Want ads only will be accepted and should be in Word format. **The deadline for the March newsletter is February 23rd.** Company logos can be included with your ad; these need to be provided in either a .jpg or .gif file format. The cost is \$200 per month for 1/4 page; \$400 per month for 1/2 page. A check should be submitted with your ad, made payable to “ASHRAE - Boston Chapter”, and should be sent to:

### ASHRAE

Attn: Teri Shannon  
c/o DAC Sales  
P.O. Box 576

W. Kennebunk, ME 04094

E-mail: [tshannon@dac-hvac.com](mailto:tshannon@dac-hvac.com)

If you have any questions, please feel free to contact me at 207-985-0873.



**Boston ASHRAE**  
**Sustainability Committee**  
**(BASC)**    *By Jim Shiminski*

**Attend a Great Training Program Lately?**

The recently formed Boston ASHRAE Sustainability Committee is interested in helping its members participate in training programs that focus on building energy efficiency, efficient use of water and indoor air quality. We are looking to identify the best training programs and the best trainers that are currently available. If there is a program or trainer for any program, from an hour to a week in length, that you found to be well worth the time and money you invested, please let us know so we work to share this with others.

Lunch and Learns and on-line web meetings included.

Contact: Fran Boucher, BASC committee member  
 E-mail: [francis.boucher@us.ngrid.com](mailto:francis.boucher@us.ngrid.com)  
 Phone: 508 421-7299.



**2007 Roster & Product Guide**

*By Cheryl Rossini*

Production of the 2007-2008 Roster and Product Guide is well underway. Distribution to each member can be expected by April first.

There is still time to update your personal data. If you have made changes within the past two years to the following: your address, employer, membership grade, professional registration, etc; go to ASHRAE.org, type in your membership number and pin and update the data. We will collate this info from ASHRAE's main database to create our Roster.

Deadline for updating is **March 1st**. If you still want to place an ad, email Cheryl at [crossini@dac-hvac.com](mailto:crossini@dac-hvac.com) for info. No phone calls, please.

*“Sustainable development meets the needs of the present without compromising the ability of future generations to meet their own needs.”*

*United Nations World Commission on Environment & Development*



Where can you see the Red Sox, the Bruins, the Celtics, the Revolution, the Cannons *and* the Patriot's all on one playing field? When they gather together for **MDA's Muscle Team® Boston**, an incredible social event to benefit the Muscular Dystrophy Association of Greater Boston taking place **Monday, February 12, 2007** at the Boston Park Plaza Hotel!

Currently we have an impressive group of current and former sports stars, celebrities, and legends:

- ◆ New England Patriots Linebacker Tully Banta-Cain
- ◆ Boston Celtic legends Robert Parish & Jo Jo White
- ◆ 5 Time boxing Champion Vinny Pazienza
- ◆ Former WBA Super Welterweight World Champion Jose Riviera
- ◆ 1980 US Olympic Hockey Team Captain Mike Eruzione
- ◆ Boston Red Sox Legend Luis Tiant
- ◆ New England Revolution stars Joe Franchino, Jay Heaps, Michael Parkhurst, James Riley
- ◆ New England Patriots Cheerleaders
- ◆ The Boston Celtics Dance Team
- ◆ Miss Massachusetts Michaela Gagne

For more information on the **2007 MDA Muscle Team Boston Dinner and Gala**, including sponsors, auction items, and exciting updates, log onto [www.muscleteamboston.com](http://www.muscleteamboston.com)!

We look forward to having you lend **YOUR** muscle to our **TEAM!!!**



**Student Activities**

*By Cheryl Rossini*

**Future Engineers Scholarship 2007**

We are pleased to announce the 2007 Future Engineers Scholarship! We will be distributing the applications within the next 4-6 weeks.

Last year was our first year and we learned a great deal in the process. We will incorporate several changes and improvements into the 2007 applications. We will post the 2007 application on our website and send a reminder to our members to share and distribute a copy of the application to any student who may benefit from applying.

We will need Boston Chapter members to participate in the selection process (mid-March). If you wish to participate, and are not affiliated to ANY applicants, please email Cheryl at [crossini@dac-hvac.com](mailto:crossini@dac-hvac.com) to be put on the list.

**Challenge.** Engineer a 12-story, 324,000 square foot clinical facility with state of the art diagnostic, treatment, operating rooms and patient bedrooms with MEPPP sustainable systems to provide infection control, reliability, optimization and energy efficiency.

**Solution: YOU**

Imagine bringing your innovative ideas and communication know-how to the frontline as you work closely with clients and engineers from different disciplines on complex technical and business challenges. Your valuable contributions will help forge strong relationships with our clients and continue to strengthen our growing organization.

With over 20 US offices and more than a dozen different service lines, we're big enough to get our hands on challenging projects, yet small enough to ensure you get your hands on them too. Your passion will be supported and your knowledge grown across diverse functions by a professional, team-centric culture of over 200 fellow engineers.

If you want to broaden your exposure to industries and engineering services, we invite you to apply on our website today at:

[www.sebesta.com](http://www.sebesta.com)

EOE

SEBESTA BLOMBERG  
Providing Technical & Business Solutions



**BVH**  
integrated  
services

## HVAC Engineers and Designers

BVH Integrated Services ([www.bvhis.com](http://www.bvhis.com)) is currently seeking HVAC designers and engineers at all levels for our New Haven, CT and Hartford/Bloomfield, CT offices.

BVH is a progressive 100-person firm that respects our employees and treats them as professionals. What we expect from everyone on our team is hard work, a willingness to adapt, and a can-do attitude. What we offer in return is a great working environment, the chance to learn and grow, and a highly competitive salary package. We also offer a comprehensive benefits package including 401k with match and generous company contributions to dental and health plans. Both of our offices offer free parking and are close to the interstates and mass transit.

BVH is presently working on some of the most interesting and challenging projects in the region. From university science centers to nanotechnology laboratories, convention centers to LEED-certified buildings, BVH produces hundreds of projects annually for clients in the academic, research, healthcare, and corporate sectors.

Let us show you what a great place BVH can be for you. To apply, submit your cover letter and resume to: BVH Integrated Services, 50 Griffin Road South, Bloomfield, CT 06002; F: 860-242-0236; [marial@bvhis.com](mailto:marial@bvhis.com). EOE

JOHNSON CONTROLS JOHNSON CONTROLS

## Employment Position Available:

### Regional Business Development Manager and Support Specialist

Johnson Controls is seeking a dynamic, technically savvy self-starting professional to help us capitalize on the growing market for energy-efficient and sustainable HVAC system technologies such as underfloor air distribution. Johnson Controls is a leader in this area, with our innovative, comprehensive and proven YORK Flex-Sys underfloor air distribution system and YORK Air-Fixture overhead air distribution system.

The ideal candidate will have at least 8-10 years of successful sales and/or HVAC design experience. He or she will play a highly visible, high-impact role in the Johnson Controls and YORK sales organization. He or she will work internally with our sales teams and externally with Owners, Architects, General Contractors and Consulting Engineers.

Compensation package includes a competitive base salary, annual bonus eligibility, full benefits, generous 401k and a business expenses plan. Ability to travel 50% or more is required. The territory is the Northeast and Mid-Atlantic regions (roughly Virginia to New England).

Apply online at: [http://www.jci.com/hr/na\\_career.htm](http://www.jci.com/hr/na_career.htm)  
(search keyword: FlexSys)

Contact Dave Klee with any questions:  
[dave.j.klee@jci.com](mailto:dave.j.klee@jci.com) (or 617-755-4212)



## A Message from the Webmaster

*By George Hardisty*

If anyone is interested in being a sponsor of the site, please contact me at [gmh@brplusa.com](mailto:gmh@brplusa.com). The cost is \$300.00 per year and includes a link to your web site, posting of a line card, and a random posting of a logo on the home page. It is a great value.

Please feel free to contact me if you have any suggestions or new ideas.



## **CCTC - TEGA Article**

*By David Klee*

### **ASHRAE Technology Awards Highlight Outstanding Building Projects**

*An Excerpt from an ASHRAE press release dated January 27, 2006.*

By the time you read this, these awards will have already been presented at ASHRAE’s 2007 Winter Meeting in Dallas. It is interesting to note that the winners are grouped together by a theme of sustainability. Some of the technologies include natural ventilation, use of gray water and incorporation of phase change materials

The awards recognize members' exceptional achievements that incorporate elements of innovative building design in the areas of occupant comfort, indoor air quality (IAQ) and energy conservation. Winners have applied ASHRAE standards for effective energy management and IAQ.

Matt Younger, P.E., principal of Stantec Consulting, Seattle, Wash., received first place in the new health care facilities category for his design for the Washington Department of Veterans Affairs, Retsil, Wash. The fully naturally ventilated building features large, independently operated windows that aid with a passive cooling system. The system’s design is predicted to save 45 percent over Standard 90.1 requirements, even without taking into account the deletion of comfort cooling requirements because the building is naturally ventilated. Younger used intensive thermal modeling as a critical design tool on this project. Through testing of different design parameters, a whole-building integrated design solution was developed.

Receiving first place in the new industrial facilities or processes category are Pierre Roussel, P.E., vice president of the mechanical division, and Jacques Lagace, P.E., vice president of innovation and major projects, at Bouthillette

Parizeau & Associates for their design of the thermal plant at the Pierre-Elliott Trudeau Airport in Montreal, Quebec, Canada.

One of the challenges they faced was the proximity of the air traffic control tower and the possibility of the smoke plume from boiler combustion gases interfering with traffic control activities. The team designed a system to avoid this scenario, incorporating measures such as running the boilers’ flue gases through a direct contact economizer to cool them using grey water. This also allows the system to reclaim the heat and creates efficiency of up to 99 percent.

Daniel Pare, project manager for IBM in Bromont, Quebec, Canada, received first place in the existing industrial facilities or processes category for his design for an IBM semiconductor packaging facility in his hometown. His use of a thermal energy system with phase change materials combined with free cooling, a variable frequency drive chiller and predictive algorithm control is a first in North America. Phase change materials are substances that can accumulate and release energy during phase change. In this case, a change from liquid to solid.

Pare’s design will produce energy savings of six percent annually in part by using artificial phase change materials in the chiller with different melting points between 28°F and 40°F. The system also uses a natural cooling exchanger, which runs from September to May to take advantage of Mother Nature’s natural cooling season.



#### ***Presidential Award of Excellence***

#### ***Boston Chapter - 2006 - 2007***

Chapter Members	Membership Promotion Points	Student Activities Points	Research Promotion Points	History Points	Chapter Organization Points	Chapter Technology Transfer Points	Chapter PAOE Point Totals
911	685	255	490	325	900	665	3,320



## What's New in our Chapter

By Bryan Hermann

## Meeting Minutes of the Board of Governor's January 9, 2006 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:

### Chairperson Openings

The Boston Chapter is currently seeking assistance for a couple of positions within the different Chairs. We have some committee members moving on and we will need to fill their shoes. The Chapter is looking to fill the following positions:

Chapter Officer - Secretary	Historian
Attendance	Student Activities

If anyone is interested in getting involved please feel free to contact one of the Officers, Board Members, or Committee members for information.

### Meeting Payments

The Chapter is still researching other methods of implementing a credit card payment into the payment methods for attending the meetings. The Chapter had tried the credit card machine previously, but due to slow processing, the Chapter had to abandon the idea because of the delay in the check-in process. We will inform everyone if we are able to work out the details and ensure a fast processing machine.

### Scholarships

The "Future Engineers Scholarship" will be given away once again this year. The fundraising for the scholarship was even larger than last year, which may allow additional scholarships to be given out. Jim Shiminski and Cheryl Rossini are once again in charge of the process. If you have any questions, or if you are interested in helping out the cause, please feel free to contact them. Once the information has been released, please keep in mind that the P.O. Box has changed from last year's application, so please ensure that you are sending the information to the right address.

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

### PDH Credit

We will now be requiring a business card for all attendees requesting PDH credit. This helps eliminate confusion and limits errors in the application process that we have been facing. Please be prepared to provide a card upon filling out the paperwork. Future meetings that will issue PDH credit will be at a cost to all non-members that request the credit. Each certificate will cost \$15 for each non-member per meeting. Members will be given credit at no additional cost.

### ASHRAE Research Promotion

The Boston Chapter of ASHRAE is proud to announce that we will once again receive the "Full Circle Award". This award is given to a Chapter when each Chapter Officer donates \$100 or more towards ASHRAE Research Promotion.

We need your help! Each year Research & Promotion has a goal to meet and this year our goal is \$14,000. We are currently behind at \$3,000 and need to pick up the pace for year's end. If you'd like to show your support for the Chapter and for ASHRAE's research, please contact Enrique De Los Reyes for more information on how to help.

### Sustainability Committee

The Sustainability Committee has created multiple subcommittees that anyone can be involved with. Subcommittees include education,

"who's-who" in sustainability, and governmental relationships. The Committee will also send out a questionnaire to the members soon asking what you would like to see the educational subcommittee teach to the ASHRAE members. The Chapter is also hoping to have a Committee link on the Chapter website for information. We encourage all members interested in joining the committee or interested in helping out to join, please contact a Board member or Committee Chair Jim Shiminski for additional information.

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

### Winter Meeting in Dallas, TX

The Boston Chapter of ASHRAE will have a number of officers and committee members at the national meeting. If you attend the winter meeting and run into them, please make sure you stop by and say hello.

### New item for the meetings

The Boston Chapter of ASHRAE has begun 50-50's. The fee for the 50-50's is completely optional and the money will go toward Research & Development.

### Facilities Expo

Past President Steve Tafone will represent the Boston Chapter of ASHRAE at the Facilities Expo. If you attend the facilities expo and run into the booth, please make sure you stop by and say hello.

### Historical Items

The Chapter currently has historical pieces that need a home. The Chapter may look into a local library for storage and or display of these items for everyone to use and view. If you have any suggestions for a location, please contact George Hardisty for information.

### Upcoming Meetings

The February and March meetings have been submitted for PIE approval, we'll let you know the results as we receive them.

### Chapter Website

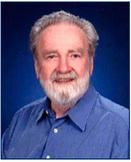
The website will be going through some changes within the next couple of months. We have a new web designer on board. We will update everyone on new information as it develops. If any Chapter members have any requests or ideas for the new website, please feel free to contact one of the Board members with your ideas.

Anyone interested in assisting with the website can contact Steve Rosen, George Hardisty, or Teri Shannon for additional information.

### 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](http://www.ashrae.org) or contact our Membership Chairperson Dan Cooke for more membership information.

**See you at the next meeting!**



## Historian's Column

By Robert J. Barstow

This column will feature an interview with Gary Vanderweil, P.E. Partner, R.G. Vanderweil Engineers, LLP. The interview took place in Gary's office at 274 Summer Street on December 26, 2006. The interview will run as a series for the next few newsletters.

**RB** - Let's start with where you went to school

**GV** - I graduated from Cohasset High School, then I went to Harvard, graduating in 1961 with a Bachelor of Arts Degree in Engineering and Applied Physics.

**RB** - From Harvard? I didn't think they went into that much.

**GV** - They did. It was a very small department with maybe 30 students in my graduating class and then I went on to M.I.T. and got a Master's Degree in Mechanical Engineering.

**RB** - That figures. You didn't learn any HVAC at Harvard.

**GV** - I didn't at M.I.T. either. They had stopped teaching it.

**RB** - They used to have a Heating and Ventilating Course, taught by a Professor Hesselschwerdt, I think.

**GV** - That's correct - August Hesselschwerdt. He was active in ASHRAE. There had also been a big textile engineering department at M.I.T. up until World War II. After the war, it never came back. The textiles all moved to North Carolina. Maybe there's no more textile engineering specialty.

**RB** - Probably isn't. Probably they are all in China by now.

*(Editor's note - Hesselschwerdt was president of ASRE in 1945-1946 and 1961-1962.)*

**GV** - After college I went to work for Lockheed Missiles and Space Company in Sunnyvale, California. I was there three or four years. Then I went to G.E in San Jose, California for a year or two. And then I came back in 1967 and joined my father's company.

**RB** - I remember your father. I always thought of your father as an innovative engineer. He did a lot of kinds of systems others were afraid to do. One I remember was a radiant cooling system. It went out of style; now it's coming back and now they are calling it chilled beams.

**GV** - He got into the business through radiant heating and cooling. He was working in World War II at Chase Brass and Copper in Waterbury, Conn. With the end of the war, the copper sales went down, because there was no more need for copper war materials. So they were looking for commercial outlets for copper, and thought radiant heating would be a good one. My father was in their R & D Department and they put him on to radiant heat. He did all the initial research. He established the practical underpinnings for radiant heat, and probably radiant cooling too, for Chase Brass. He went around to sell that concept, visiting all the Chase sales offices, including the ones in the Boston area to talk up radiant heati



## Research Promotion

By Enrique de los Reyes

I would like to thank everyone who has already donated so generously to the Research Promotion campaign. I am continuing to beg all the others to *please* consider donating whatever you can. Take a minute to fill out the form on the back cover and mail it to me with whatever contribution (large or small) you can make. People can also donate using a credit card via the internet at [https://www.ashrae.org/aboutus/resource\\_promotion](https://www.ashrae.org/aboutus/resource_promotion) (if doing it this way, please be sure to put Boston down under "Assigned ASHRAE Chapter:"). 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 \$9,000 this year. Every contribution is appreciated (large or small) as it takes participation by many members in order to support this important campaign (e.g. a \$30 per year or \$2.5 per month, contribution from 1/2 of our members would suffice to beat the goal that ASHRAE has set for our Chapter). I have contacted some members via email and will be contacting others as well.

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. I will be attempting to contact these firms individually.

We started a raffle at the January meeting to assist in raising funds and gave away three ASHRAE T-Shirts. The winners were Sam Aghdam, Pauric Baxter, and George Hines. Thanks to your generosity we collected \$135 for Research. This month we will be raffling two more T-shirts and a watch. Please consider joining in the raffle.

Thanks again!

---

Interview (con't)

**ng.** He realized that Boston was beginning to grow and it might be a good place to open his own practice. That's what brought him to Boston.

**RB** - My recollection is that radiant cooling ceilings were manufactured by Burgess-Manning.

**GV** - By the time I joined in 1967, we weren't designing them any more.

Part II of the interview will run in the March issue of the North-EastAire.

## 2006 – 2007

### BOSTON CHAPTER OFFICERS, BOARD MEMBERS AND CHAIRPERSONS

#### OFFICERS

OFFICE / OFFICER	PHONE	E-MAIL
President: Darcy Carbone, Sebesta Blomberg	781-721-3949	dcarbone@sebesta.com
President-Elect: Steve Rosen, Autodesk	603-621-3259	steven.rosen@autodesk.com
Vice President: Jeffrey H. Schulz, BR+A	617-925-8242	jhs@brplusa.com
Secretary: Bryan Hermann, BR+A	617-254-0016 x295	bmh@brplusa.com
Treasurer: William Garvey, SEI Companies	617-210-1711	bgarvey@seicompanies.com

#### BOARD OF GOVERNORS

NAME	YEARS	PHONE	E-MAIL
Enrique de los Reyes, P.E., Energy Systems Design	2006 - 2009	508-276-1102	er@energysystemsdesign.com
William Garvey, SEI Companies	2006 - 2009	617-210-1711	bgarvey@seicompanies.com
Steve Bosland, PE, Einhorn Yaffee Prescott	2006 - 2009	617-305-9831	sbosland@eypae.com
Jeff Scogland, R.T. Forbes	2006 - 2009	978-777-1220	scogland@comcast.net
Dan Cooke, RG Vanderweil	2005 - 2008	617-423-7423	dcooke@vanderweil.com
Patrick Duffy, BR+A	2005 - 2008	617-925-8255	pjd@brplusa.com
Jim Shiminski, DAC Sales	2005 - 2008	207-985-0873	jshiminski@dac-hvac.com
Bryan Hermann, BR+A	2004 - 2007	617-254-0016 x295	bmh@brplusa.com
John Swift, Cannon Design	2004 - 2007	617-724-5440	jswift@cannondesign.com

#### COMMITTEES

<u>COMMITTEES</u>	<u>CHAIRPERSONS</u>	<u>TELEPHONE</u>	<u>E-MAIL</u>
Attendance	Patrick Duffy, BR+ A	617-925-8255	pjd@brplusa.com
Chapter Program	Steve Rosen, Autodesk	603-621-3259	steven.rosen@autodesk.com
Chapter Technology Transfer	Dave Klee, York / Johnson Controls	781-232-0611	dave.j.klee@jci.com
CRC Alternate	Steve Rosen, Autodesk	603-621-3259	steven.rosen@autodesk.com
CRC Delegate	Darcy Carbone, Sebesta Blomberg & Associates	781-721-3949	dcarbone@sebesta.com
Golf Outing	William J. Garvey, SEI Companies	617-210-1711	bgarvey@seicompanies.com
Greeting	Steven Tafone, William Berry & Sons	978-774-1057	stafone@berry.com
Historian	Bob Barstow, Barstow Engineering	617-262-0420	barstoweng@comcast.net
Honors & Awards	Robert Persechini, RDK Engineers	617-345-9885 x322	rpersechini@rdkengineers.com
Membership Promotion	Daniel Cooke, Vanderweil Engineers	617-423-7423	dcooke@vanderweil.com
Nominating	Robert Persechini, RDK Engineers	617-345-9885 x322	rpersechini@rdkengineers.com
NorthEastAire	Teri Shannon, DAC Sales	207-985-0873	tshannon@dac-hvac.com
Product Show - April 2008	Jeffrey H. Schultz, BR+A	617-925-8242	jhs@brplusa.com
Professional Development	Steve Bosland, P.E., Einhorn Yaffee Prescott	617-305-9831	sbosland@eypae.com
Publicity	Kristen DelloRusso	617-962-2933	kristen@cruiseline-deals.com
Refrigeration	Steven Tafone, William Berry & Sons	978-774-1057	stafone@berry.com
Region I	Garry Myers, PE	212-951-2815	Garry.Myers@ny.fk.com
Research Promotion	Enrique de los Reyes, P.E., Energy Systems Design	508-276-1102	er@energysystemsdesign.com
Student Activities	Jim Shiminski, DAC Sales	207-985-0873	jshiminski@dac-hvac.com
Website	George M. Hardisty, P.E., BR+A	617-254-0016 x308	gmh@brplusa.com

# Boston ASHRAE 2006 - 2007 Meeting Schedule

Date	Main Program	Speaker	Certificate for PHD's	Meeting Manager	Location
Friday, September 15, 2006	Casino Night – Research & Promotion Fund Raiser	N/A	N/A	Teri Shannon	Lantana's - Randolph
MEMBERSHIP & RESEARCH PROMOTION NIGHT					
Tuesday, October 10, 2006	Chilled ceilings, floors and beams description and operating fundamentals (each are unique)	Stanley A. Mumma, Ph.D., P.E., ASHRAE Fellow – Distinguished Lecturer	Approved for 1.0 PDH	Jason Peterson	DoubleTree - Waltham
JOINT MEETING NAWIC STUDENT NIGHT					
Wednesday, November 1, 2006	Chapter Sponsors Night	N/A	N/A	Steve Rosen	DoubleTree - Waltham
JOINT MEETING AEE					
Tuesday, December 12, 2006	How to maximize your LEED points for mechanical and plumbing	Richard Moore an Environmental Consultant	Approved for 1.5 PDH	John Swift	Lantana's - Randolph
JOINT MEETING ASPE, STUDENT NIGHT					
Tuesday, January 9, 2007	Smoke Management Concepts in the IBC, and chair of Transaction 10 titled Evacuation Analysis Methods for Mass Transit Facilities and Tunnels.	Raymond Grill	Approved for 1.5 PDH	Jim Liston, P.E.	DoubleTree - Waltham
HISTORY, PAST PRESIDENTS NIGHT					
Tuesday, February 13, 2007	Healthcare Facilities—Best Practice HVAC Design Considerations & Criteria	Anand Seth, Milt Goldman	Approved for 3.0 PDH	Dan Cooke	DoubleTree - Waltham
STUDENT					
Tuesday, March 20, 2007	<i>The ASHRAE Promise: A Sustainable Future</i>	Terry Townsend, ASHRAE President	In Progress	Enrique de los Reyes, P.E.	DoubleTree - Waltham
NOTE NEW DATE!!					
STUDENT					
Tuesday, April 10, 2007	Air to Air heat exchangers, heat pipes and plate & frame heat exchangers	TBD	In Progress	Jim Shiminski	DoubleTree - Waltham
MEMBERSHIP & RESEARCH PROMOTION NIGHT					
Tuesday, May 8, 2007	Installation of Officers		N/A	Steve Rosen	Naked Fish - Waltham
SOCIAL EVENT					
June 2007	<a href="#">Golf Outing</a>		N/A	William J. Garvey	Country Club of Halifax & Poquoy Brook Golf Course
SOCIAL EVENT, RESEARCH PROMOTION NIGHT					



# ASHRAE RESEARCH

Investors  
Who Care  
About  
Tomorrow

## ASHRAE Chapter Contributors

Air Industries, Inc.  
Boston Chapter Raffle  
Cornerstone Commissioning, Inc.  
Engineered Solutions Inc.  
SEi Companies  
Walsh Mechanical Contractors  
Mr Peter J Barrer  
Mr Robert J Barstow  
Ms Darcy Carbone  
Mr. Cris Copley  
Mr Robert M Couture  
Ms Katherine G Cunkelman  
Mr Enrique de los Reyes

Mr Eric M Edman  
Mr Gary M Elovitz  
Mr J Michael Fleming  
Mr William J Garvey  
Mr Ralph S Gifford  
Mr William J Goode  
Mr Joe W Hale  
Mr Robert A Hamilton  
Mr George M Hardisty, PE  
Mr Bryan Hermann  
Mr. Nicholas Johnson  
Mr James P Kirby  
Mr Gene F Koons Jr

Mr Max Levi  
Mr Daniel W Miles, PE  
Mr Allan R Morris  
Mr Stephen W Nicholas  
Mr William O'Leary  
Mr Thomas Ouellet  
Mr Paul F Padua  
Mr Robert J Persechini  
Mr Steven Rosen  
Mr Jeffrey Schultz  
Mr Michael C Spence  
Mr John M Swift Jr  
Mr Steven J Tafone  
Mr Charles E Thomas

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

Mail Check (Payable to "ASHRAE Research") to:  
ASHRAE RESEARCH  
C/O ENERGY SYSTEMS DESIGN, INC.  
20 MARSHALL TERRACE  
WAYLAND, MA 01778

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

Name: \_\_\_\_\_  
Company: \_\_\_\_\_  
Address: \_\_\_\_\_  
TEL: \_\_\_\_\_

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



# NorthEastAire

ASHRAE - BOSTON CHAPTER [www.ashraeboston.org](http://www.ashraeboston.org)

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

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

ADDRESS SERVICE REQUESTED