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VOLUME 2, ISSUE 5



JANUARY 5, 2008

## ASHRAE Monthly Meeting info:

**When:** Monday, January 14, 2008.

**Time:** 5:30 PM Tech Session

6:30 PM Dinner

7:00 Main Program

**Where:** The Wishing Well  
Party House, 1190 Chili Ave.

**Cost:** \$20.00 for dinner and  
program.

**\* Student Night \***

**RSVP:** Please RSVP by 4:00 P.M.  
on Friday, Jan 11th to Phil Mas-  
ters at [philm@rpfedder.com](mailto:philm@rpfedder.com).  
Questions call 585-750-5092 x  
117.

**We hope to see you there!!!**

### Tech Session: "Environmental LEED design rating system"

Presented by: **Bob Feduik**, Carrier Corp.

This presentation concentrates on the mandatory and prescriptive requirements of ASHRAE/IESNA STANDARD 90.1-2004 Appendix G for whole building energy analysis under the Energy & Atmosphere Credit 1 LEED category. The Leadership in Energy and Environmental Design (LEED) Green Building Rating System™ is the nationally accepted benchmark for the design, construction, and operation of high performance green buildings.

Bob is a 25 year employee of Carrier Corporation and is an instructor for the Software Systems group for the Hourly Analysis Program. He is a graduate of Penn State and a registered professional engineer in the State of NY and recently obtained his LEED Accreditation from the USGBC.

### Main Program: "High Efficiency Condensing Boilers"

Presented by: **Peter Rimassa**, Eastern Regional Sales Manager, AERCO International

#### Course Outline:

##### Hydronic Boiler Efficiencies & Ratings

1. Advertised efficiencies
2. Efficiency definitions
3. ASHRAE Standard 90.1
4. ANSI Z21.13-2000 thermal efficiency test
5. Inlet water temperature effect on efficiency

##### What is a condensing boiler?

##### Modulation of burner

1. Why is it important?
2. Full and part load thermal efficiency curves
3. Example calculation highlighting the differences in burner modulation
4. Boiler turndown
5. Load calculation

##### Hydronic system design

1. Fundamental concepts
2. Conventional boiler piping
3. Retro-Fitting High efficiency boiler in Conventional Systems
4. Adjusting Existing Reset Schedules to increase Efficiencies
5. Increased Delta T Systems and the Fuel and Installation Savings
6. Combined hydronic heating and domestic hot water systems
7. High Efficiency Combination Systems
8. Two Pipe Systems
9. Heat Pumps Application

In his current position Peter works regularly with consulting engineers and project decision makers in Schools, Hospitals and other commercial buildings to design and implement Condensing boiler technology.

**Earn 1 PDH  
Credit for  
attending this  
meeting**

**Join  
ASHRAE  
in  
Reaching  
New  
Heights**

**2008 Winter  
Meeting**

**New York City  
Jan. 19-23, 2008**



[www.ashrae.org/newyork](http://www.ashrae.org/newyork)

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## ASHRAE 2007/2008 MEETING SCHEDULE

DATE	EVENT	LOCATION	SCHEDULE
1/14/2008 <b>Student Night</b>	High Efficiency Condensing Boilers. <b>1 PDH Available.</b> Main speaker is <b>Peter Rimassa</b> from Aerco International. Tech Speaker <b>Bob Feduik</b> Environmental LEED design rating system	Wishing Well Party House	5:30 PM Tech Session Dinner 7:00 PM Main Speaker
2/9/2008	Valentine's Dinner / Dance.	Lodge at Woodcliff	6:30 PM Reception 8:00 PM Dinner 9:15 PM Dessert
2/11/2008 <b>Membership Night</b>	Refrigeration Night—Will feature a tour of the new Wegmans Mt Read Blvd. location. Dinner will be in the Wegmans Café.	<b>Wegmans Mt Read Blvd</b>	5:30 PM Dinner 6:30—7:30 PM <b>Tour</b>
3/17/2008 <b>Joint Meeting</b>	Topic: "Sustainability". Sustainable / Green Building. USGBC/Niagara Chapter—Rochester and Buffalo Tentatively presented by sitting <b>ASHRAE President Kent Peterson.</b>	Batavia, NY	5:30 PM Tech Session Dinner 7:00 PM Main Speaker
4/16/2008	<b>ASHRAE Satellite Broadcast Luncheon.</b> Topic: "Integrated Building Design".	Bathtub Billy's	12:00 PM Lunch, 1:00-4:00 PM Program
5/20/2008	Annual <b>ASHRAE Golf Outing and Picnic</b>	Ravenwood Golf Club Bergundy Basin Inn	8:00 AM Golf 2:00 PM Picnic 6:45 PM Dinner



### Mission Statement

ASHRAE will advance the arts and sciences of heating, ventilation, air conditioning, refrigeration and related human factors to serve the evolving needs of the public and ASHRAE members.



***"Advancing HVAC&R to serve humanity and promote a sustainable world"***

### Vision Statement

- will be the global leader in the arts and sciences of heating, ventilation, air conditioning and refrigeration.
- will be the foremost, authoritative, timely and responsive source of technical and educational information, standards and guidelines.
- will be the primary provider of opportunity for professional growth, recognizing and adapting to changing demographics, and embracing diversity.

## President's Message by Casey Bernhard:

I don't have strict guidelines on what the president's message should convey, so I thought that this time I would take some liberties to share something that I found to have an impact on me and I hope my professional life as well.

Procrastination can be a real killer, but today I found it to be a benefit. As I sat down at the computer to start writing I remembered that my wife had mentioned to me a lecture given by Randy Pausch, a Carnegie Mellon professor that is terminally ill with cancer, as part of the university's "Last Lecture Series". This lecture has received much attention, being featured on Oprah and in the media. My wife told me that the lecture was on the web and that anyone could watch it for free. So, on this lazy Saturday morning, I figured what the heck, I've burned one and a half hours in much worse ways. The lecture talked about Dr. Pausch's childhood dreams, helping others with dreams, and lessons that he learned in life. I don't dare to convey his message, as watching the real thing is the only way for you to obtain the full impact, but some principals of importance that he brings up are: having specific dreams, passion, creativity, hard work, getting help, telling the truth, integrity, apologizing when you screw up, helping others, and always having fun in what you do.

We all strive for these principals. Sometimes they are achieved with ease, other times they come with great difficulty, and still other times we fall short. I found myself to be energized by Dr. Pausch's talk and thought about what I should be doing to come closer to living my life in regard to these ideals. It made

me think about what I have heard referred to as a person's "circle of influence"; how surrounding yourself with people that incorporate the ideals you respect will help you to attain these ideals in your life. Maybe you recognize your circle of influence in other ways, but however you refer to it everyone has one in one form or another. When a circle of influence is positive and strong it can be a very powerful tool to help motivate you to attain your goals and ultimately your dreams.

So, yes, here is the plug..... ASHRAE is one type of circle of influence. People join ASHRAE for different reasons. Some enjoy their benefits solitarily and others choose to participate in the group and interact with others in that circle of influence. There is even another type of person who chooses to volunteer and give their time for the benefit of the greater good. I must say that I am lucky to be able to participate and enjoy all three of these levels of benefit provided by ASHRAE. However, it is the chapter meeting and the volunteer groups that I take the most reward professionally and personally. With that, I would like to extend an invitation to all that are interested in making themselves better to take part in our chapter meetings. I hope it can be as rewarding for you as it is for me. Regardless of whether you come to the meetings or not, if you would like to see the lecture to which I refer, take a look and share it with others. I don't think you will be disappointed.

You can find this video by Googling on "Randy Pausch's Last Lecture".

*Casey Bernhard, PE 2007-2008 President*





# ASHRAE's 51st Annual Valentine's Dinner Dance

**Saturday, February 9, 2008**

The Lodge at Woodcliff  
Woodcliff Drive, Fairport, NY  
(Horizon Hill Rte. 96 & 490)



Live music and a superb meal will chase away the "Winter Blues". For your convenience we have valet parking.

Option: If you would like to spend the evening at Woodcliff, we have a group rate of \$118.00 a room. When you call to make your reservation let them know you are with the ASHRAE group so you can get the special rate. Rooms must be booked by January 13th.

6:30 pm Reception—Hors 'Doeuvres  
8:00 pm Dinner—as you selected  
9:15 pm Dessert and Coffee

For reservations please mail or fax the registration form below. Please make checks payable to: Rochester Chapter ASHRAE, and mail to :

ABR Wholesalers, Inc., 510 North Goodman Street, Rochester, NY 14609, Attn: Jody Monaco-McGarry. (Phone: 585-482-3601, Fax: 585-482-6698).

Menu Selection:

- Roast Beef Tenderloin, grilled with a Cabernet demi glaze finish.
- Pan seared Lemon Chicken, Lemon, Dijon, Parsley Marinated Chicken with Smoked Tomato- Red Sauce Onion Confit, Sauce Ivory.
- Glazed Fillet of Herbed Baked Atlantic Salmon, in a Bristol Cream Sherry sauce topped with Soy Glazed Pecans.
- Vegetarian Delight of your choice.

Meal Selection—Please circle one:

1. Name: \_\_\_\_\_ Beef—Chicken—Salmon—Vegetarian
2. Name: \_\_\_\_\_ Beef—Chicken—Salmon—Vegetarian

Number of people \_\_\_\_\_ x \$50.00 per person = \_\_\_\_\_ (enclosed)

Jody Monaco McGarry, 2007-2008 Valentine Dance Committee Chair





1791 Tullie Circle, • NE Atlanta, GA 30329-2305 • Tel 404.636.8400 • Fax 404.321.5478 • http:// www.ashrae.org

**Garry N. Myers**  
 Director and Regional Chair I

Reply to: 73 Bonnie Way  
 Allendale, NJ 07401-1127  
 ☎ 212-951-2815  
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 garry.myers@ny.fk.com

## Announcing

The combined **REGION I, III and V DINNER** at the New York City Winter Meeting will be at **Bond 45** Located at **154 West 45<sup>th</sup> Street, New York, N.Y. 10036** (A few feet east of Broadway)  
**Phone: 212-869-4545**

On  
**SUNDAY, January 20, 2008 (Note new night)**  
**DINNER: 7:00 PM Cash Bar**  
**COST (per Person): \$50.00 (with reservation)**

**This dinner has limited seating and reservations received after January 13 (including meeting sign ups) are subject to space availability.**

**If RESERVATIONS are received by January 13, 2008.... \$50.00**

**Meeting sign ups (cut off Noon January 20<sup>th</sup> ) subject to availability .....\$55.00**

**See attached for the details.**

**MAKE OUT YOUR CHECK TO: ASHARE Region I Fund**  
**SEND YOUR CHECK TO: Garry Myers, 73 Bonnie Way, Allendale, NJ 07401**

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*American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.*

AN INTERNATIONAL ORGANIZATION

## ASHRAE WINTER MEETING 2008

### ASHRAE

#### Regions I, III, and V

*Sunday, January 20, 2008*

*7:00pm-9:00pm*

### FAMILY STYLE APPETIZERS

*Platters of Assorted Vegetable Antipasto  
Accompanied by bread & extra virgin olive oil  
&  
Pizza Margherita*

### Entree Selections

*Tagliolini alla Checca, fresh baby tomatoes, buffalo mozzarella & basil  
Salmone Farcito, stuffed with shrimp, scallops & spinach  
Costoletta di Pollo Parmigiana, lightly breaded with fresh tomato & buffalo mozzarella*

### Dessert Selections

**NY Style Strawberry Cheesecake**

*-or-*

**Tiramisu della Nonna, marscarpone cream, espresso dipped lady fingers**

**Coffee and Tea Service**

*\$55.00 per person, Inclusive of 18% Gratuity*



Bond 45, a unique Italian restaurant in the Times Square Theater District, that opened January 21, 2005 is located at 154 West 45 Street (between Sixth and Seventh Avenues), the site of the famous Bond clothing store (two pairs of pants with every suit), the new restaurant features the regional Italian cuisine prepared by Chef Brando de Oliviera, formerly the Executive Chef of Fiorello's and Aureole. Paolo Del Gatto, formerly of Fireman's Trattoria Dell'Arte, is Managing Director. *Group is tax-exempt.*

**ASHRAE WINTER MEETING 2008**

- Time Block 1** Saturday, 01/19/2008, 8:00AM to 3:00PM, Hilton Hotel, 4 Monitors for Professional Development Seminars
- Time Block 2** Sunday, 01/20/2008, 8:00AM to 12:30PM, Hilton Hotel, 18 Monitors for Transactions, Technical Plenary Session, & Seminars
- Time Block 3** Sunday, 01/20/2008, 12:40PM to 4:45PM, Hilton Hotel, 18 Monitors for Transactions, Seminars & Forums
- Time Block 4** Sunday, 01/20/2008, 8:00AM to 5:00PM, Javits Center, 5 Monitors for a Professional Development Seminar and Short Courses
- Time Block 5** Monday, 01/21/2008, 8:00AM to 12:00PM, Hilton Hotel, 20 Monitors for Transactions, Seminars, & Forums
- Time Block 6** Monday, 01/21/2008, 2:30PM to 5:30PM, Javits Center, 5 Monitors for Short Courses
- Time Block 7** Tuesday, 01/22/2008, 8:00AM to 1:00PM, Hilton Hotel, 20 Monitors for Transactions, Seminars, a Forum, & a Poster Session
- Time Block 8** Tuesday, 01/22/2008, 8:30AM to 1:15PM, Javits Center, 10 Monitors for Seminars, & a Forum
- Time Block 9** Tuesday, 01/22/2008, 2:00PM to 5:00PM, Javits Center, 3 Monitors for Short Courses
- Time Block 10** Wednesday, 01/23/2008, 8:00AM to 10:45AM, Hilton Hotel, 18 Monitors for Transactions, Seminars, & Forums
- Time Block 11** Wednesday, 01/23/2008, 8:30AM to 12:00PM, Javits Center, 10 Monitors for Seminars
- Time Block 12** Wednesday, 01/23/2008, 11:00AM to 2:30PM, Hilton Hotel, 18 Monitors for Transactions & Seminars
- Time Block 13** Wednesday, 01/23/2008, 8:00AM to 5:00PM, Javits Center, 7 Monitors for Short Courses

Welcome to ASHRAE's Government Affairs Update. Along with the Government Affairs webpage, these periodic e-mail updates feature information on government affairs related activities of interest to ASHRAE members and others interested in the built environment. Archives of previous updates are available from the government affairs webpage (<http://www.ashrae.org/advocacy>).

Please pass this information on to interested colleagues who also may subscribe from the ASHRAE Government Affairs webpage. Should you wish to unsubscribe, information appears at the end of this e-mail.

If you have any recommendations regarding content, or have questions about or would like to participate in Washington Office activities, please contact ASHRAE Government Affairs staff at (202) 833-1830 or [washdc@ashrae.org](mailto:washdc@ashrae.org).

## ASHRAE Government Affairs Update, 12/21/07

- [Study Reveals How U.S. Could Cut Greenhouse Gases by 28%](#)
- [Green Building Programs Up 400% in U.S. Cities](#)
- [RFP on Solar Energy Grid Integration Systems Program](#)
- [Negotiators in Bali Agree to Work Toward New Climate Agreement](#)
- [Report: States Falling Short on Interconnection and Net Metering](#)
- [DOE Adopts Final Rule for Energy Conservation in Federal Buildings](#)

### **Study Reveals How U.S. Could Cut Greenhouse Gases by 28%**

A new report by consulting firm McKinsey & Company reveals that the United States could shave as much as 28% from the amount of greenhouse gases (GHG) it emits at fairly modest cost and with only small technology innovations. A large portion of the reductions could come from measures that would more than pay for themselves in lower energy bills. The report's authors said, however, that such steps are unlikely to happen under present circumstances. There is huge potential for energy and dollar savings in the lighting, heating and cooling of buildings, yet substantial barriers to adoption of efficient technologies remain. Landlords and builders typically purchase less efficient equipment with low up-front cost, leaving the tenant or home buyer using the equipment with a higher electricity bill. Another problem, the report said, is that consumers often pay no attention to energy use in choosing equipment. For example, computers can be designed to use less power. But, because most consumers are oblivious to energy efficiency when shopping for a computer, manufacturers perceive no competitive edge to spending the extra money on efficiency.

While the report focused on describing the scope of the problem, it did mention possible solutions. Rules for utilities could be rewritten, for example, so that utilities make as much money in promoting conservation as in selling electricity. Other proposed solutions included: government mandates for limits on GHG emissions and incentives such as tax breaks to promote efficient buildings, cars and appliances. The study compared such measures to more costly measures such as capturing and storing carbon dioxide from coal power plants, which would account for less than 10% of the potential to cut emissions.

Read *Reducing U.S. Greenhouse Gas Emissions: How Much at What Cost?*, McKinsey & Company, December 2007, [www.mckinsey.com](http://www.mckinsey.com).

(continued on page 9)

## **Green Building Programs Up 400% in U.S. Cities**

A new study from the American Institute of Architects (AIA) finds that since 2003, the number of American cities with green building programs has increased more than 400%. The analysis is based on research conducted by AIA on American cities with a population greater than 50,000 (661 communities). The study found that less than 15% of cities surveyed have green building programs today, but that figure is expected to rise to 20% next year as communities begin to address global warming. The report recommends that cities hire a director of sustainability and train and accredit municipal employees on green building rating systems including the U.S. Green Building Council's Leadership in Energy and Environmental Design (LEED) program.

Read *Local Leaders in Sustainability: A Study of Green Building Programs in Our Nation's Communities* ([http://www.aia.org/adv\\_localleaders](http://www.aia.org/adv_localleaders)).

## **RFP on Solar Energy Grid Integration Systems Program**

Sandia National Laboratories, in conjunction with the United States Department of Energy's Solar Energy Technology Program (SETP), has issued a Request For Proposal (RFP) for the Solar Energy Grid Integration Systems program (SEGIS).

This RFP provides up to \$6.25 million for the development of advanced inverters, controllers, and other balance-of-system components for photovoltaic (PV) distributed power applications. The goal of the SETP is to increase the value of PV as large numbers of systems are incorporated into the utility distribution system.

The deadline for the RFP is January 21, 2008. The RFP can be downloaded at: [http://www1.eere.energy.gov/solar/solar\\_america/open\\_upcoming\\_fund\\_opps.html](http://www1.eere.energy.gov/solar/solar_america/open_upcoming_fund_opps.html)

## **Negotiators in Bali Agree to Work Toward New Climate Agreement**

Representatives from 187 countries agreed to work toward a new and strengthened climate change deal. The agreement reached at the United Nations Climate Change Conference in Bali, Indonesia, aims to conclude negotiations on a new climate change agreement by 2009, allowing time for the agreement to be implemented by 2013, when the Kyoto Protocol expires. For now, the negotiators have agreed to a framework for the upcoming negotiations in the form of the "Bali Roadmap," also called the "Bali Action Plan." The action plan calls for quantified limits and reduction objectives for the greenhouse gas (GHG) emissions from developed countries, while also calling for developing countries to address their GHG emissions using "nationally appropriate" mitigation actions that are measurable, reportable, and verifiable. The agreement also addresses deforestation and carbon capture and storage and will lead to the immediate establishment of an adaptation fund for developing countries, funded through a mechanism of the Kyoto Protocol. The White House noted that the United States joined in the consensus decision, but continued to express concerns about holding developing countries accountable for their GHG emissions.

The Bali Conference also made important progress on the issue of providing developing countries with the technologies they need for adaptation to climate change and for GHG emissions mitigation, including clean energy technologies. The governments agreed to create a strategic program to scale up the level of investment needed for the transfer of technologies for both adaptation and mitigation. The aim of the new program is to pursue demonstration projects, to create more attractive environments for investment, and to provide incentives to the private sector for technology transfer. The Global Environment Facility—the world's largest environmental funding body—will lead the program, working with international financial institutions and representatives of the private financial sector.

The conference parties also agreed to extend the mandate of the Expert Group on Technology Transfer for another five years. The Expert Group has been asked to pay particular attention to the assessment of gaps and barriers to the use of, and the access to, financing resources. The Expert Group will also establish performance indicators that can be used to regularly monitor and evaluate progress on the development, deployment, and transfer of environmentally sound technologies. The members of the group are nominated by the conference parties, and the group has been meeting since 2002. See the press release

([http://unfccc.int/files/press/news\\_room/press\\_releases\\_and\\_advisories/application/pdf/20071215\\_bali\\_final\\_press\\_release.pdf](http://unfccc.int/files/press/news_room/press_releases_and_advisories/application/pdf/20071215_bali_final_press_release.pdf)) and all the conference agreements ([http://unfccc.int/meetings/cop\\_13/items/4049.php](http://unfccc.int/meetings/cop_13/items/4049.php)) on the United Nations Framework Convention on Climate Change Web site.

## Report: States Falling Short on Interconnection and Net Metering

A new report concludes that all 50 states are failing to provide easy access to the electrical grid for home-grown renewable energy systems, while only four states are doing their best to assure that the owners of such systems earn credit for power fed into the grid. Regarding "interconnection," or the connection of customer-owned power systems to the grid, many states set an arbitrary maximum size of the system that can be connected to the grid, or they set a cap on the total combined capacity of the systems connected to the grid. In many states, utility customers must pay high fees for interconnection, while also having to meet unreasonable requirements for safety features, liability insurance, and approval paperwork. Regarding "net metering," which provides a utility bill credit for customers who feed power into the grid, some states allow utilities to credit the power at a rate that's lower than the retail rate, to limit the amount of credit earned, or to limit the credit that can be carried over from month to month. Net metering often excludes commercial and industrial partners and sometimes requires the installation of an extra meter. And of course, many states do not have a policy for interconnection or net metering at all.

The new report, "Freeing the Grid," is an update of a 2006 report and is prepared by the Network for New Energy Choices, the Interstate Renewable Energy Council (IREC), the Vote Solar Initiative, and the Solar Alliance. The report finds that as of September 2007, only 34 states and the District of Columbia had statewide interconnection policies, and of those, 8 states and the District of Columbia received failing grades. New Jersey and Arizona have the best interconnection policies, both earning a "B" from the report's authors. Likewise, only 38 states and the District of Columbia had statewide net-metering policies, and of those, 4 states and the District of Columbia received failing grades. Five states—California, Colorado, Maryland, New Jersey, and Pennsylvania—earned an "A" for their net-metering policies. See the report on the Network for New Energy Choices Web site ([http://www.newenergychoices.org/uploads/FreeingTheGrid2007\\_report.pdf](http://www.newenergychoices.org/uploads/FreeingTheGrid2007_report.pdf)).

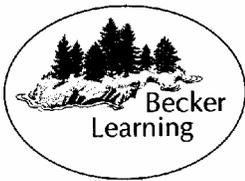
## DOE Adopts Final Rule for Energy Conservation in Federal Buildings

The U.S. Department of Energy (DOE) is adopting with changes the interim final rule published on December 4, 2006 (71 FR 70275) that implemented provisions in the Energy Policy Act of 2005 that require DOE to establish revised energy efficiency performance standards for the construction of all new Federal buildings. The standards in the final rule apply to commercial and multifamily high-rise residential buildings and low-rise residential buildings, as designed and constructed. This rule is effective January 22, 2008.

EPAct 2005 requires DOE to establish revised Federal building energy efficiency performance standards. Under the revised standards, new Federal buildings must be designed to achieve energy consumption levels that are at least 30 percent below the updated minimum standards (ASHRAE 90.1-2004 or 2004 IECC) if life-cycle cost-effective.

For a copy of the final rule (72 FR 72565), see <http://www.gpoaccess.gov/fr>.





Your technical training provider presents

# Air Conditioning Fundamentals 2008

**Target Audience:** Any engineer, designer, technician, or assistant who wants to broaden their base in the fundamentals, will greatly benefit from this training.

**Primary Benefit:** Students will enjoy learning as much practical knowledge as possible about Air Conditioning Fundamentals. Students won't waste a great deal of time in theory. The typical student can immediately apply what he/she learns. Past attendees have boosted their overall confidence and found many ways to apply their recently acquired knowledge.

## Comments from past attendees:

**“Practical, helpful, essential information** provided in a friendly and enthusiastic manner.”  
Bill Bishop, Mechanical Designer - Rochester, NY

“Joe really knows the details and step by step ways to teach a hard topic to understand.

**The best training I have had.** Joe is a great teacher.”  
Thomas Price - Estimator/Project Manager - Philadelphia, PA

“Joe has an effective teaching style that delivers a lot of technical information in an amount of time in a way that **everyone in the classroom can easily comprehend and understand to use in their field.**”

Andrew Davin - Mechanical Designer - Rochester, NY

“This was awesome! **Engineering made simple.** Joe Becker is one of the best!”  
Jamie Chudyke - HVAC Mechanic - Rochester, NY

## **2008 Course Offerings (Rochester, NY):** (all classes are 3-days; Tuesday – Thursday)

1. [ ] Feb 12-14 ‘**Systems Fundamentals- I**’ (HVAC Systems, Ice Storage, Heat Recovery, etc...)
2. [ ] Mar 11-13 ‘**Refrigeration Fundamentals**’ (Refrig Basics, Refrig Piping, Refrig & Our Environment)
3. [ ] Apr 8-10 ‘**Energy Efficient Design Fundamentals**’ (Chilled Wtr, DX, VAV, Dehumidification)
4. [ ] Sep 9-11 ‘**Product Fundamentals**’ (Coil, AHU, FanCoils, UVs, WSHP, RTU, Chillers, Compressor Technologies)
5. [ ] Oct 7-9 ‘**Airside Fundamentals- I**’ (Load Design and Psychrometrics)
6. [ ] Nov 18-20 ‘**Airside Fundamentals- II**’ (Duct Design, Fans & Fan Laws, Acoustics and IAQ)

**Registration Deadline:** Each course will be filled on a first-come-first-reserved basis.

**Payment Deadline:** Complete Payment must be received prior to the start of the class.

## **More Details for 3- day courses:**

**Where:** The specific Henrietta, NY location will be decided at least 30-days before the class & all attendees will be emailed all appropriate information in time to make hotel reservations.

**Food:** Lunch, mid-morning and mid-afternoon snacks & drinks are provided.

**What is not included:** Transportation, other meals & lodging.

**Travel: Arrival:** Since the seminar starts at 8:00 a.m., plan to arrive the night before.

**Departure:** You can book flights out of Rochester International Airport after 6:00 p.m. on Thursday since our Henrietta, NY location is less than 10-minutes from the airport.





# Announcing

## 2008 ASHRAE Buyer's Guide

***Don't miss out on the opportunity to promote your company's products and services in the 2008 ASHRAE Buyer's Guide.***

This valuable guidebook is distributed to each Rochester Chapter ASHRAE member and is one of the best resources of HVAC product and service listings in this region.

You can make your ASHRAE Buyer's Guide submission by emailing a black & white 4 ½" x 6" or 8 ½" x 11" page as you would like your ad to appear (or mailing a hard copy).

Ad Format options for submission include:

- **Best:** tif file or other picture file such as jpg or photoshop.
- **Good:** pdf or full size scan, or full size (8-1/2 x 11) hard copy.
- **Least:** word, power point or similar file.

The cost will remain the same as last year at \$125.00. It is our intent to release the Buyer's Guide by February 2008 so the deadline to receive your payment and ad is **January 21, 2008**.

Email your ad to: [cwengineering@rpa.net](mailto:cwengineering@rpa.net) or mail hard copy to the address below.

Please send your \$125.00 check payable to ASHRAE Rochester Chapter to:

Charles White  
128 Hogan Road  
Fairport, NY 14450

If you have any questions, please call me at (585) 223-2462.

Thank you for your support.  
Charles White,  
Chairman, ASHRAE Rochester Buyer's Guide Committee.



Joe Becker, Becker Learning

*December Dinner Meeting Pics*



Wow, what an incredible turnout!



Joe Becker, Becker Learning

*"Scientists investigate that  
which already is;  
Engineers create that which  
has never been."*

*-Albert Einstein*

# Comic Corner...



## 2007-2008 Presidential Award of Excellence Summary

Chapter #	Chapter Name	Chapter Mem- bers / Students	Member Promotion	Student Activities	Research Promotion	Chapter Technology Transfer	History	Chapter Operations	Chapter PAOE Totals
11	Rochester	211 /13	25	100	40	335	225	200	925

# Job Postings & Help Wanted



This section of the newsletter is reserved for those firms wishing to advertise their desires to hire from the Chapters Membership.

If you are interested in utilizing this FREE service provided by the Rochester Chapter, please contact our Newsletter Editor, Christina Wal-

ter (585.486.2148) or by email [cmwalter@trane.com](mailto:cmwalter@trane.com)

This service is available to any firm in our industry looking for knowledgeable persons in the HVAC&R industry.



## LABELLA

Associates, P.C.

LaBella Associates, P.C. is a fast growing engineering, architecture, planning and environmental consulting firm with three office locations in New York State. We are a multi-disciplined firm dedicated to client satisfaction through teamwork, respect, and trust.

**We are currently looking to fill the following positions in our Rochester, NY office:**

**Mechanical Engineer: Junior Level (EIT):** Bachelor's degree in Mechanical Engineering with a focus in HVAC. Will work with Senior Engineers to develop project designs, drawings and specifications. Will grow into working more independently on projects with in house training and mentoring programs. AutoCad experience required. Prior experience working at an A/E consulting firm desired.

**Mechanical Engineer: Mid-Level (PE):** Bachelor's degree in Mechanical Engineering with a focus in HVAC and Energy Projects. Will work independently and with other Engineers as part of a Project Team to develop concepts, strategies, designs, drawings, specifications and reports. Will be part of the project brainstorming, peer review, and QA/QC processes. AutoCad experience required. Minimum of five years of experience working at an A/E consulting firm preferred.

If you are interested in any of these positions, please e-mail cover letter and resume to [hr@labellapc.com](mailto:hr@labellapc.com). For additional information about our firm, please visit our website at [www.labellapc.com](http://www.labellapc.com)



Warren Engineering, Rochester's leading home inspection firm, is seeking an engineer!

Are you an independent, ambitious, engineer seeking an escape from the office setting? Do you want a job that compensates you in direct proportion to the amount of work you perform? We will train you to perform home and building inspections as part of the Warren Engineering inspection team. You will also be able to perform non-competing work for any of your own clients that you may develop, since you will be an independent, self-employed engineer.

Position requires good people and communication skills. Candidates must be dependable and able to work independently without direct supervision. P.E. license required (any discipline). A general knowledge of building construction is required, and direct experience in the building/construction industry is a plus.

Contact Lisa at 585-385-4766 or send resume to [engineers@warreninspect.com](mailto:engineers@warreninspect.com)

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### **Get a Piece of the PIE at the ASHRAE Winter Meeting Technical Program in NYC**

ATLANTA – For the first time, ASHRAE is offering New York professional development hour credit through the Practicing Institute of Engineering (PIE) at the 2008 ASHRAE Winter Meeting in New York City.

Meeting attendees can earn 1.5 to 2 PDHs in each of 27 sessions being certified through PIE.

One session is available in nearly every technical program time slot scheduled Jan. 20-23 at the Hilton New York or Javits Convention Center. Included sessions span a range of topics such as sustainability, commissioning, mold, exergy and energy recovery. The overall ASHRAE technical program at the meeting focuses on net-zero-energy design in buildings.

“With the ASHRAE meeting registration fee equivalent to what it would cost to earn three to five PDHs, these sessions provide a great value to engineers seeking PDHs for New York state licensing requirements,” says Mo Hosni, chair of the ASHRAE Program Committee.

The following sessions have been approved for New York PDHs:

- Seminar 5: Regulations About Re-Circulating Air from Air Cleaning Devices (Dust Collectors)
- Seminar 7: Ventilation of Tall Sustainable Buildings
- Seminar 11: Improving System EER with Energy Recovery Technology
- Seminar 13: Sustainability of Innovative Absorption/Sorption Systems
- Seminar 14: CHP 101
- Seminar 17: Greening of Hydronic Systems
- Seminar 22: Exergy I: Fundamentals of Exergy Analysis for Sustainability
- Seminar 23: MGreen Buildings: Practical Experiences with Commissioning
- Seminar 31: Exergy 2: Exergy Efficient Design, Analysis, and Rating for Net-Zero Energy Bldgs, Part 1
- Seminar 36: Commissioning Buildings (GSHP)
- Seminar 37: Exergy Analysis 3: Advanced Applications for New Heights in Net-Zero-Energy Buildings
- Seminar 39: Applying UVGI Without Getting Burned: Taking Precautions And Overcoming Barriers
- Seminar 41: Designing for Dehumidification and Mold Avoidance
- Seminar 46 Javits: Standard 62.1 Multiple Spaces Issues
- Seminar 50: Integrating ASHRAE's Standards 90.1 and 62.1: How to Save Energy and Improve IAQ
- Seminar 54 Javits: Noise Control of Building Services Equipment
- Seminar 58: Fire and Smoke Control Dampers
- Seminar 59: How to Properly Apply Desiccant Dehumidifiers for Energy Savings
- Seminar 62: Mold: Where Do We Stand Now?
- Public Session: HVAC Designs For Security and Sustainability (free admission)
- Seminar 66: How Do You Connect Your Net-Zero Building to the Grid?
- Seminar 71 Javits: Using Ground Source Heat Pumps for Conditioning Schools
- Seminar 73: Green Building Energy Performance: Some Experience and Data From the Field
- Seminar 80 Javits: Energy Upgrade Project: Planning through Operation
- Transactions Session 14: Modeling of Cooling Coils and Cooling Towers
- Seminar 85: Developing the Uniform DOAS Design Guide
- Seminar 91: Sustainable HVAC Systems for Hospitality Facilities, Part 2

The ASHRAE meeting program also offers several sessions that are approved by the American Institute of Architects for Learning Units.

For a complete listing of technical program sessions or more information about ASHRAE's Winter Meeting, please visit [www.ashrae.org/newyork](http://www.ashrae.org/newyork).

Held with the ASHRAE Winter Meeting is the ASHRAE co-sponsored International Air-Conditioning, Heating, Refrigerating Exposition, Jan. 22-24, at Javits Convention Center. For more information, visit [www.ahrexpo.com](http://www.ahrexpo.com).

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**ASHRAE Publishes User’s Manual for Standard 62.1**

ATLANTA – A manual to help users navigate the changes in ASHRAE’s 2007 ventilation standard is now available.

humidity control design requirements, and the inclusion of new rates for high-rise residential occupancies.

States and Canada) or 404-636-8400 (worldwide), fax 404-321-5478, or visit at [www.ashrae.org/bookstore](http://www.ashrae.org/bookstore).

- The Standard 62.1-2007 User’s Manual provides users with a better understanding of the design, installation and operation requirements in ANSI/ASHRAE Standard 62.1-2007, *Ventilation for Acceptable Indoor Air Quality*.

- “The manual provides guidance for designers and contractors to clarify the requirements, explains why the requirements are included (in some cases), and how to comply,” Roger Hedrick, vice chair of the 62.1 committee, said.

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.

- The standard, published last year, contains new requirements for separation of environmental tobacco smoke (ETS) spaces from ETS-free spaces, clarification of

- The cost of the user’s manual is \$69 (\$55, ASHRAE members). To order, contact ASHRAE Customer Service at 1-800-527-4723 (United

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**From the Editor’s Desk**

The ASHRAE Chapter Bulletin should reflect the opinions, activities and needs of its members. We represent an active membership and the Bulletin can provide a valuable and enjoyable forum for news of our individual members.

Any announcements of interest, as well as letters, opinions, questions or comments, should be addressed to Christina Walter, Trane, 75 Town Centre Drive, Suite 300, Rochester, NY 14623 or email to [cmwalter@trane.com](mailto:cmwalter@trane.com)

***Reminder***

**Go to [www.ashrae.org](http://www.ashrae.org) to update your personal information. Keeping your information current helps us to find you. Please add email, phone number, fax number, address correction, etc.**





ASHRAE

NOVEMBER 2007

# MEMBERS FIRST!

VOLUME 2 ISSUE 6

## TECHNOLOGY COUNCIL, FALL 2007

Technology Council is well into the 2007-08 Society year, having met for the first time this year over Tech Weekend in October in Atlanta. As you will read below, progress was made on many efforts to better serve our members and to fulfill ASHRAE's mission. Along with the items in this newsletter, there are a few others worth noting.

Tech Council has recently developed a brochure on Life-Cycle Cost Analysis that explains the principles of life-cycle costing and presents several examples. Copies of this brochure will be distributed to each ASHRAE chapter very soon, and a pdf version will be posted on the web. In addition, work is continuing on the Advanced Energy Design Guide series, with the guide for K-12 schools planned for publication later this year. More information on these documents can be found at [www.ashrae.org/technology/page/938](http://www.ashrae.org/technology/page/938). The Council has a number of other Special Projects in the works, including an Indoor Air Quality Design Guide, a study of indoor air quality in aircraft cabins and the development of a design guide for buildings in hot and humid climates. You can learn more about all of these efforts and more by visiting the Special Projects website at [www.ashrae.org/technology/page/678](http://www.ashrae.org/technology/page/678).

## TECHNICAL ACTIVITIES COMMITTEE NEWS

As part of efforts to implement the ASHRAE Strategic Plan of 2006, TRG 4.SBGM (Sustainable Building Guidance and Metrics) and TRG 7.SBOMCA (Sustainable Building Operations, Maintenance and Cost Analysis) have almost finished characterizing the breadth of current technical activities within ASHRAE and its partner organizations. These TRGs are now starting to identify potential new activities that could build upon this foundation to meet the objectives of the Strategic Plan. Ultimately, the TC/TG/TRGs throughout ASHRAE will develop specific, detailed plans to act upon these recommendations.

In response to requests from ASHRAE Chapters, TC 9.6 – Healthcare Facilities, TC 9.10 – Laboratory Systems, and TC 9.11 – Clean Spaces, have recently reviewed the need for improved design information about HVAC&R systems in

quarantine stations, pharmaceutical/bulk chemical facilities, and clean rooms. Their conclusions are as follows:

- To address airborne-transmitted disease issues, a quarantine station design guide is needed, and the ASHRAE HVAC Design Manual for Hospitals and Clinics needs updating;
- A guideline for personnel/product protection systems is needed to incorporate new ideas and technologies for energy reduction in pharmaceutical/bulk chemical facilities; and
- A design guide for clean rooms is needed.

Over the next few months, these TCs will be developing work plans to address these needs.

TRG 7.UFAD has been formed to address reported deficiencies in the ASHRAE Underfloor Air Distribution Design Guide. The committee met during August to assess the situation, and plans to meet again during December. A revised guide is anticipated by January 2009.

Work to prepare a web-based tool that provides an interface for the 1237-RP Service Life and Operating Cost Database is nearly complete. Look for an announcement later this Fall on how to access this information.

A workshop will be held in April 2008 to conduct an end-user review of the 2007 Applications Volume of the Handbook. The workshop, sponsored by TAC and the Handbook Committee, will identify opportunities to improve this Volume. Similar reviews of the Fundamentals, Systems and Equipment, and Refrigeration Volumes over the past three years have already resulted in numerous recommendations for improvement.

To become more familiar with the work and structure of the TC/TG/TRGs, please visit [www.ashrae.org/technology/page/104](http://www.ashrae.org/technology/page/104). There, you can find committee scopes, links to web pages, Handbook improvement recommendations, and the E-mail Alias List. Using aliases, you can contact Section Heads and TC/TG/TRG Chairs. For more detailed information, you can also contact [MORTS@ASHRAE.net](mailto:MORTS@ASHRAE.net). Your participation is valued and always welcome!

ASHRAE Technology is for ASHRAE members. The Members First! newsletter is issued after each Technology Council meeting to provide highlights of ASHRAE technical activities and keep members informed. Our goal is to make the work of the technical side of ASHRAE open to all ASHRAE members. If you have technical questions for ASHRAE, please contact Steve Hammerling, Assistant Manager of Research and Technical Services, at 678.539-1158 or via email at [shammerling@ashrae.org](mailto:shammerling@ashrae.org).

*Your feedback is welcome and encouraged! Please write to Andrew Persily, Vice Chair, Technology Council at [andrew.persily@mail.ashrae.org](mailto:andrew.persily@mail.ashrae.org).*

## STANDARDS

### MAJOR IMPROVEMENTS COMING TO STANDARDS COMMENT PROCESS

The fruit of the labors of a long line of leaders in the development of ASHRAE Standards develop process is about to be realized!

Providing, processing and responding to comments to public review documents has been an arduous manual process since its inception. ASHRAE members and others had to request a public review draft of a standard or guideline, prepare written comments, submit them to ASHRAE headquarters, wait for the comments to be compiled, sorted and manually distributed to the Project Committee (PC) members, wait for the responses to be prepared, approved and returned to the commenter, and then possibly start the process again on subsequent public reviews. This has been a painstaking process both for those submitting the comments, project committee members and ASHRAE Staff.

In the 2006-07 Society year, ASHRAE processed 1754 comments on the 82 documents that went out for public review. So far in the 2007-08 year, 52 documents have gone out for public review. Starting later this year, major improvements are coming in the processing of comments.

ASHRAE's software developer InterDev, LLC has been working on an on-line comment system that will allow a commenter to go to the ASHRAE website, establish a private user ID, request a copy of a public review draft for review purposes only, prepare comments, and submit them electronically. Through links with the new ASHRAE software system, the comments would be automatically available to members of the PC who will then review them and prepare responses. Once the PC had approved the responses, the PC chair can provide the responses back to the commenter smoothly and efficiently through the online system.

A test version of the software is scheduled to be online in December. ASHRAE headquarters will post a few documents to the test site. Members of the Standards Committee, Headquarters Staff and volunteers will test the system by providing comments to the public review drafts on the test site. It is anticipated that the system will be fully operational by the Spring 2008 public review cycle.

## RESEARCH ADMINISTRATION COMMITTEE (RAC)

Funded by member contributions and developed through member commitment to ASHRAE technical activities, ASHRAE research continues to lead the advancement HVAC&R arts and sciences. The Research Administration Committee works with TCs, TGs, SPCs, and the Standing Committees to develop, manage, and disseminate ASHRAE research. At Technology Weekend in October, RAC reviewed thirty-eight new research ideas and twelve project work statements. Contractors were selected and approved for two new research projects and sixteen projects are currently out for bid, including the following:

**1267-WS**, "Development of an ASHRAE Design Manual for District Heating and Cooling Systems" sponsored by TC 6.2.

**1345-WS**, "Waterside Fouling Performance of Brazed-Plate Type Condensers in Cooling Tower Applications" sponsored by TC 8.5.

**1356-WS**, "Methodology to Measure Thermal Performance of Pipe Insulation at Below-Ambient Temperatures" sponsored by TC 1.8.

**1387-WS**, "Thermal Energy Storage Design for Emergency Cooling" sponsored by TC 6.9.

**1408-WS**, "The Effect of Lining Length on the Insertion Loss of Acoustical Duct Liner in Sheet Metal Ductwork" sponsored by TC 2.6.

**1416-WS**, "Development of Internal Surface Convection Correlations for Energy and Load Calculation Methods" sponsored by TC 4.7.

**1418-WS**, "Optimizing the Trade off Between Grid Resolution and Accuracy: Coarse Grid CFD Modeling" sponsored by TC 4.10.

**1456-WS**, "Assess and Implement Natural and Hybrid Ventilation Models in Whole-Building Energy Simulations" sponsored by TC 4.10.

**1466-WS**, "Development of a Calibration Reference Device for Use with Test Standard ANSI/ASHRAE 52.2-2007" sponsored by TC 2.4.

**1475-WS**, "Updating Heat and Moisture Production Rates of Modern Swine and Their Housing Systems" sponsored by TC 2.2.

**1480-WS**, "Island Hood Energy Consumption and Energy Reduction Strategies" sponsored by TC 5.10.

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**1481-WS**, "Economic Data Base In Support of Standard 90.2" sponsored by Standing Standards Project Committee 90.2.

**1482-WS**, "Update to Measurements of Office Equipment Heat Gain Data" sponsored by TC 4.1.

**1484-WS**, "Energy and Performance of Secondary Coolant Low-Temperature Refrigeration Systems" sponsored by TC 3.1.

**1486-WS**, "Fault Detection and Diagnostics for Centrifugal Chillers - Phase III: Online-Time Implementation" sponsored by TC 7.5.

ASHRAE research is only useful if the results are available. Every research project produces at least one technical publication, available in the open literature. However, the detailed results are presented in the project final report, which is archived at ASHRAE headquarters. While recent reports have been submitted electronically, hundreds of research reports are only available in paper format. Over the past two years, ASHRAE staff has undertaken to scan these earlier reports to make them available on line. By the end of the year, we expect to have over 1200 research project final reports available for free download to all ASHRAE members.

The ASHRAE Research Strategic Plan 2005-2010 has been guiding our development efforts since 2005. In January, the Research Advisory Panel (RAP) will begin the planning cycle for the next five-year plan. This panel of twelve distinguished researchers, chaired by Prof. Jeffrey Spitler and reporting to RAC, will work to develop the plan over the next three years. You will be hearing much more about these efforts as they solicit input from ASHRAE members.

## REFRIGERATION

While the Refrigeration Committee did not meet over Tech Weekend in October, they did recommend a committee of individuals to develop an ASHRAE Position Document on Natural Refrigerants. This committee was approved by Technology Council and is now tasked with developing this Position Document. This document will describe the history and use of natural refrigerants such as ammonia, carbon dioxide, water, air, propane and butane, as well as discuss their application, efficiency, safety, cost, and relation to standards and codes.

## ENVIRONMENTAL HEALTH COMMITTEE

The Environmental Health Committee (EHC) met at the IAQ 2007 conference on Healthy and Sustainable Buildings in Baltimore. The conference was a success with more than 250 participants attending five excellent Plenary Sessions, several topical workshops and a number of technical sessions. The issues and opportunities for providing Healthy and Sustainable Buildings from many perspectives were thoroughly discussed and debated. EHC was the sponsoring committee of ASHRAE for IAQ 2007 but the conference was a success due to the very competent steering committee, ASHRAE Baltimore chapter volunteers and of course our staff personnel.

At the EHC meeting itself we planned our activities for this year and looked out to next year as well. Members were assigned to develop Emerging Issues papers on "What are the roles and responsibilities of professional engineers to environmental health?", "Unknown and unintended consequences of development of sustainable buildings?", and "Air Conditioning and Humidity control in hot humid climates with self contained equipment".

The next ASHRAE IAQ conference, scheduled for 2010 was discussed, with tentative plans to have it focus on Control of Airborne Infectious Diseases. Further, it was suggested that this conference be held in Region XIII (Asia) at a site to be determined.

EHC is developing an RTAR on "Ozone Air Cleaning" to look into the effects of ambient ozone on indoor air quality and how it can be removed per the requirements of Standard 62.1. EHC will work with TC 2.3 Gaseous Air Contaminants in this effort.

EHC has assigned members to review selected chapters of the *Applications Handbook* and to write materials for those chapters that relate to environmental health issues. This initiative was discussed with TAC during the Technology Weekend meetings in Atlanta in early October.

*To sign up for the Members First! Newsletter Listserv, please use the following link:*  
<http://www.ashrae.org/publications/detail/16150>