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VOLUME 2, ISSUE 7



MARCH 3, 2008

## Sustainability: Greater Efficiency Today, Blue Skies Tomorrow

**When:** Monday, March 17, 2008.

**Time:**  
 5:00-5:30 PM Sign In / Registration  
 6:00 PM Dinner  
 6:30-7:30 Main Presentation

**Where:**  
 Batavia Holiday Inn, Darien Lake Area, 8250 Park Road, Batavia, NY (Phone: 585-344-2100)

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

**RSVP:** Please RSVP via email by 4:00 P.M. on Friday, March 14th to Phil Masters at [philm@rpfedder.com](mailto:philm@rpfedder.com). Questions call 585-288-1600 x 117.

**Please come join us !**

**Kent W. Peterson, P.E.**, Fellow ASHRAE, is vice president and chief engineer of P2S Engineering Inc., Long Beach, California.

As ASHRAE's president, Mr. Peterson directs the Society's Board of Directors and oversees the Executive Committee. Through his theme, *Greater Efficiency Today, Blue Skies Tomorrow*, Mr. Peterson emphasizes innovation in the quest for sustainability in the built environment. He notes that "energy efficiency should always be the elegant alternative to fuel consumption." As such, he encourages ASHRAE members and the industry to be more innovative in their thinking, more daring in their creativity, and more dedicated to their pursuit of best practices that will dramatically improve building energy performance.

Mr. Peterson will be discussing our role in helping to create a better, more sustainable world. Building energy consumption currently accounts for 40% of the United States primary energy consumption. The built environment has also been cited in the Intergovernmental Panel on Climate Change 4th Assessment Report as providing the greatest potential for reducing greenhouse gas emissions worldwide. What can you do about this? Come learn about ASHRAE's bold new programs to help transform the building market towards net-zero energy buildings and learn how you and your company can become an expert in delivering high-performance buildings.

Mr. Peterson has served on the Board as president-elect, treasurer, vice president, and Region X director and regional chair. Past service includes chair of Technology Council, Members Council, the Advocacy Committee, the President-Elect Advisory Committee the ASHRAE Learning Institute Board of Trustees, the Finance Committee, the Planning Committee, the Region-at-Large Transition Committee and the Student Activities Committee.

Mr. Peterson was president of the Orange Empire Chapter. He is a recipient of the Exceptional Service Award and the Distinguished Service Award.

He was awarded a bachelor of science in mechanical engineering from California State University at Long Beach.



ASHRAE President, Kent Peterson

\*\*\*\*\*  
*Joint Meeting with the Niagara Frontier Chapter*  
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## 2008 MEETING SCHEDULE

DATE	EVENT	LOCATION	SCHEDULE
3/17/2008 <b>Joint Meeting</b>	Topic: "Sustainability". Sustainable / Green Building. USGBC/Niagara Chapter—Rochester and Buffalo Presented by sitting <b>ASHRAE President Kent Peterson</b> .	Holiday Inn 8250 Park Road 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	<b>Annual 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.



### 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.

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

## President's Message by Casey Bernhard:

As I mentioned in last month's message, I was lucky enough to be able to attend this year's ASHRAE winter meeting and International Air-Conditioning, Heating and Refrigeration Exposition (AHR Expo) in New York City. This was my first opportunity to attend this event and I wanted to share my experience. When I talked to experienced winter meeting and expo attendees prior to my trip the one common thread I noticed between these conversations was the vastness of the show and how hard it was to see everything. I found this to be very true.

The concept of the ASHRAE winter meeting is a little confusing as the ASHRAE Winter Meeting and AHR Expo are actually two separate events that are combined. The following is my understanding and brief summary of the events:

### ASHRAE's Winter Meeting

**ASHRAE Committee Meetings** – These are meetings conducted by ASHRAE society involving the operation of the society such as finance, membership promotion, etc.

**ASHRAE Technical Committee Meetings** – These meetings are on specific technical subject items or standards by ASHRAE. Attendance of these meetings is open to all and encouraged for any who have a specific interest in the topics. An example is "Standing Standard Project Committee (SSPC) 62.1 Ventilation and Acceptable IAQ in Commercial, Institutional and High-Rise Residential Buildings."

**Professional Development Seminars** – Most Seminars were 1 to 1-1/2 hours and were presented on general topics including but not limited to: Applications, Business Management, Dehumidification, Exergy, Fundamentals, Operational Topics, Refrigeration, Sustainability, and Systems and Equipment.

**Short Courses** – Seven, day long courses

were offered and fourteen, half day courses were available. Topics ranged from "Mechanical Insulation" to "Successful Solar Applications."

Technical and Non-Technical Tours were offered of area buildings.

All of the above events were tied together with lunches, dinners, awards ceremonies, speakers and parties.

### AHR Expo

Approximately 4,500 manufacturers from all over the world at booths exhibiting their latest products.

More seminars offered on many topics and a new product technology theater.

My personal feelings about the meeting are that it was especially rewarding to be able to concentrate on learning about our profession and the associated technologies. Talking to peers and seeing, touching and feeling the products were among the benefits of attending the meeting. I was amazed at how international the meeting was from the rows of booths representing Chinese companies, to the Italian wall mounted combination boiler / water heater manufacturer and the German boiler manufacturer that specialized in solar heating strategies. The guy walking through the expositions with wooden shoes was also interesting. Seminars were beneficial as they provided interaction with the academic world that we don't see as we are so often dealing with manufacturers. I was also able to attend a number of short courses that were well presented by the experts on the subject matter to help sharpen my skills.

Attending the winter meeting and expo was a great opportunity and experience that I would recommend to all in our profession. If you have not attended before and plan to next year my unsolicited advice would be to plan ahead so you can prioritize the items of interest to maximize the use of your time. It truly is impossible to do and see everything. I guess that gives you one reason to go back again.



*Casey Bernhard, PE 2007-2008 President*



## *An ASHRAE Valentine Dinner Dance Thank-You!*

*Special thanks to our corporate sponsors for supporting the 51st Annual "Chase the Winter Blues Away" ASHRAE Valentine Dinner Dance, which was held on February 9, 2008 at The Lodge at Woodliff! We had a wonderful 51st annual Valentine Dinner Dance. Flowers and chocolates for the ladies, chocolate dipped strawberries galore. What more can you ask for? The band was fantastic, the food was very, very good, and best of all the friendship shared with each other. It is such a pleasure to get together "out of the office". We'd like to thank all our guests, and corporate sponsors for making this a memorable Valentine Dinner Dance.*

*Respectfully submitted,  
Jody & Matthew McGarry*



*American Metal Products  
ABR Wholesalers, Inc.  
Day Automation Systems Inc.  
R.P.Fedder Corp  
Gray Metal Products, Inc.  
Isaac Heating and Air Conditioning  
R.L. Kistler, Inc.  
LaBella Associates, P.C.  
M/E Engineering, P.C.  
Mech Tech HVAC, Inc.  
Monroe Piping & Sheet Metal, LLC  
Navalis Company  
Sheet Metal Workers International Assoc.  
V.J. Stanley, Inc.  
Tambe Metal Products*



*Jody Monaco McGarry, 2007-2008 Valentine Dance Committee Chair*



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, 02/22/08

- [Europe Falling Short of Renewable Energy Goals for 2010](#)
- [California Holds Workshop on High-GWP GHGs](#)
- [21 Century's Grand Engineering Challenges Unveiled](#)
- [DOE Funding Opportunity on Windows](#)
- [Congress Recognizes African-American HVAC Engineer](#)
- [Energy Star Commercial Buildings and Plants on the Rise](#)



### Europe Falling Short of Renewable Energy Goals for 2010

Renewable energy seems to be growing at break-neck pace throughout the world, and particularly in Europe, but a new report shows the European Union (EU) falling far short of its goal to use renewable energy for 12% of its energy needs by the end of 2010. As of the end of 2006, the EU is at 6.92% renewable energy, having posted an impressive 0.46% gain relative to 2005, but similar gains in the coming years would only get the EU to about 9% renewable energy. The report estimates that at best, the EU could reach 10% renewable energy by 2010. Meanwhile, the EU has set an additional goal of achieving 20% renewable energy by 2020.

One reason for the shortfall is that the growth in renewable energy is struggling to compete with a growth in energy demand: while EU renewable energy use grew by the energy equivalent of 8.5 million metric tons of oil (Mtoe), EU energy consumption grew by 5.5 Mtoe. That represents a very respectable 7.5% growth in renewable energy in one year, countered by a 0.3% growth in total energy use.

The renewable energy growth is also very uneven across the EU, with Germany providing 43% of the growth in 2006. The EU is also struggling with below-normal hydropower production because of drought. See the report at [http://www.energies-renouvelables.org/observ-er/stat\\_baro/barobilan/barobilan7.pdf](http://www.energies-renouvelables.org/observ-er/stat_baro/barobilan/barobilan7.pdf).



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## California Holds Workshop on High-GWP GHGs

The California Global Warming Solutions Act of 2006 (AB 32) creates a comprehensive, multi-year program to reduce greenhouse gas (GHG) emissions in California, with the overall goal of restoring emissions to 1990 levels by the year 2020. In October 2007, ARB approved 44 early action measures to reduce GHG emissions from various sectors, including six early action measures from the stationary source high-GWP sector.

The California Air Resources Board (CARB) held a public workshop to discuss concepts for mitigating emissions of high-global warming potential greenhouse gases from stationary sources. The workshop included examination of:

- Sulfur Hexafluoride Reductions from the Non-Electric Sector
- Alternative Suppressants in Fire Protection Systems
- Specifications for Commercial Refrigeration
- High-GWP Refrigerant Tracking, Reporting, and Recovery Program
- Residential Refrigeration
- Foam Recovery/Destruction Program



For each of the above early action measures, staff provided an overview of the source category, discussed potential concepts for achieving emission reductions, as well as the anticipated timelines for bringing a full proposal to the Board for consideration.

Copies of the presentations and discussion papers are available from the CARB website: <http://www.arb.ca.gov/cc/hgwps/meetings/meetings.htm>.

## 21 Century's Grand Engineering Challenges Unveiled

The U.S. National Academy of Engineering (NAE) announced the grand challenges for engineering in the 21st century. A diverse committee of experts from around the world, convened at the request of the U.S. National Science Foundation, revealed 14 challenges that, if met, would improve how we live.

The panel, some of the most accomplished engineers and scientists of their generation, was established in 2006 and met several times to discuss and develop the list of challenges. Through an interactive Web site, the effort received worldwide input from prominent engineers and scientists, as well as from the general public, over a one-year period. The panel's conclusions were reviewed by more than 50 subject-matter experts.

The final choices fall into four themes that are essential for humanity to flourish--sustainability, health, reducing vulnerability, and joy of living. The committee did not attempt to include every important challenge, nor did it endorse particular approaches to meeting those selected. Rather than focusing on predictions or gee-whiz gadgets, the goal was to identify what needs to be done to help people and the planet thrive.

The committee decided not to rank the challenges. NAE is offering the public an opportunity to vote on which one they think is most important and to provide comments at the project Web site – ([www.engineeringchallenges.org](http://www.engineeringchallenges.org)).

The challenges:

- |  |   |
|--|---|
| ▪ Make solar energy affordable         | ▪ Provide energy from fusion                  |
| ▪ Develop carbon sequestration methods | ▪ Manage the nitrogen cycle                   |
| ▪ Provide access to clean water        | ▪ Restore and improve urban infrastructure    |
| ▪ Advance health informatics           | ▪ Engineer better medicines                   |
| ▪ Reverse-engineer the brain           | ▪ Prevent nuclear terror                      |
| ▪ Secure cyberspace                    | ▪ Enhance virtual reality                     |
| ▪ Advance personalized learning        | ▪ Engineer the tools for scientific discovery |

(continued on page 8 )

## **DOE Funding Opportunity on Windows**

The National Energy Technology Laboratory, on behalf of the Office of Energy Efficiency and Renewable Energy's Building Technologies Program, intends to issue a Funding Opportunity Announcement (FOA) to select and fund approximately two teams to develop, manufacture, and commercialize cost effective, highly insulating windows with an NFRC U-value rating of 0.20 BTU/hr-Ft<sup>2</sup>-°F or lower. This FOA is expected to be issued on or about April 21, 2008.

The projects are expected to be for a period of 12 to 24 months and will require a 50–50 industry cost shared effort with DOE. Awards are expected to be made in FY09 in the October to December 2008 timeframe, with approximately \$2,000,000 of government funding over a two year period. Proposing entities should be led by a domestic window, glass, or production equipment manufacturer or component supplier. Partnerships with entities that can offer high volume distribution to facilitate market penetration will be encouraged. DOE's long term window R&D goals are to develop the next generation of windows that offer dynamic solar control and U values of 0.10 BTU/hr-Ft<sup>2</sup>- °F. The purpose of this effort is for near term product and production engineering development of highly insulating windows that have U-values of 0.2 BTU/hr-Ft<sup>2</sup>-°F or less that can be cost effective in the 2010–2012 timeframe for a broad range of applications in colder climates.

For more details, see the Federal Register notice (73 FR 9107) at <http://www.gpoaccess.gov/fr>.

## **Congress Recognizes African-American HVAC Engineer**

On February 14, the U.S. House of Representatives passed a resolution honoring the achievements of African-American Inventors. The resolution was introduced by Representative Eddie Bernice Johnson (Tex.) and had 22 co-sponsors. Of the four inventors mentioned specifically, one is a heating and cooling engineer and ASHRAE member from the 1920s through 1970s--David Nelson Crosthwait Jr. According to the resolution:

- David Nelson Crosthwait Jr. made significant and practical contributions to the engineering of heating and cooling systems;
- He held numerous patents relating to heat transfer, ventilation, and air conditioning, the areas in which he was considered an expert;
- He served as director of research laboratories for C. A. Dunham Company in Marshalltown, Iowa, where he served as technical advisor from 1930 to 1970;
- He designed the heating systems for Radio City Music Hall and Rockefeller Center in New York City and authored texts and guides on heating and cooling with water;
- During the 1920s and 1930s, he invented an improved boiler, a new thermostat control, and a new differential vacuum pump to improve the heating systems in larger buildings.

Details on the resolution are available at <http://thomas.loc.gov/cgi-bin/bdquery/z?d110:h.res.00966>.

## **Energy Star Commercial Buildings and Plants on the Rise**

The number of energy-efficient commercial buildings and manufacturing plants is growing, with a 25% increase last year in the number of such buildings earning the Energy Star. In 2007 alone, more than 1,400 commercial buildings and plants earned the Energy Star label, bringing the total to nearly 4,100, with Energy Star buildings located in every state, according to the U.S. Environmental Protection Agency (EPA). Energy Star is a joint program of DOE and the EPA, and commercial buildings that have earned the Energy Star use nearly 40% less energy than average buildings, producing 35% lower carbon dioxide emissions. About 500 of the Energy Star buildings use 50% less energy than average buildings.

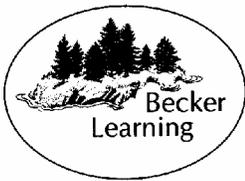
The Energy Star buildings include about 1,500 office buildings, 1,300 supermarkets, 820 K-12 schools, and 250 hotels. In addition, more than 185 banks, financial centers, hospitals, courthouses, warehouses, dormitories, and big-box retail buildings have also earned the Energy Star. More than 35 plants that are manufacturing automobiles, cement, and ethanol have also earned the Energy Star, including for the first time three petroleum refineries in Louisiana and one each in Minnesota, Montana, Ohio, and Texas. In total, these award-winning commercial buildings and manufacturing plants have saved nearly \$1.5 billion annually in energy while avoiding 25 billion pounds in carbon dioxide emissions. See the Energy Star for Buildings and Manufacturing Plants Web page ([http://www.energystar.gov/index.cfm?c=business.bus\\_bldgs](http://www.energystar.gov/index.cfm?c=business.bus_bldgs)), and the full list of Energy Star buildings ([http://www.energystar.gov/ia/business/es\\_labeled\\_list.pdf](http://www.energystar.gov/ia/business/es_labeled_list.pdf)).



## ASHRAE Region I Executive Committee 2007-2008

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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. [ ] Mar 11-13 ‘Refrigeration Fundamentals’ (Refrig Basics, Refrig Piping, Refrig & Our Environment)
2. [ ] Apr 8-10 ‘Energy Efficient Design Fundamentals’ (Chilled Wtr, DX, VAV, Dehumidification)
3. [ ] Sep 9-11 ‘Product Fundamentals’ (Coil, AHU, FanCoils, UVs, WSHP, RTU, Chillers, Compressor Technologies)
4. [ ] Oct 7-9 ‘Airside Fundamentals- I’ (Load Design and Psychrometrics)
5. [ ] 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.



## ATTEND A FREE ASHRAE WORKSHOP



## Reduce Energy Use at Your Data Center by up to 75%

Energy usage by data centers in New York State is an estimated \$593 million annually. As a consequence, governmental agencies and utility companies are promoting use of energy efficient datacom equipment and best practices.

ASHRAE in collaboration with the New York State Energy Research and Development Authority (NYSERDA) will present 5 full-day workshops throughout New York State focusing on thermal guidelines for data processing, datacom facility energy efficiency, and high density data centers. The workshops are led by instructors who are data center authorities and who are active in ASHRAE Technical Committee 9.9, Mission Critical Facilities, Technology Spaces and Electronic Equipment. You need not be a member of ASHRAE to participate.

Because of the importance of reducing New York State's energy use and the opportunities for savings that can be achieved through improved datacom center design and operation, ASHRAE and NYSERDA are funding these seminars. There is no registration fee. But attendees must register in advance. Space is limited.

All attendees will also receive at no cost three ASHRAE design manuals, a value of nearly \$200.

### FREE ASHRAE/NYSERDA Workshop

#### 1st Workshop

**Time:** 8:30 a.m.–5:00 p.m.

**Date:** March 25, 2008

**Place:** College of Nanoscale Science and Engineering, University at Albany, SUNY

**Cost:** **FREE!** Register at [www.ashrae.org/datacenter](http://www.ashrae.org/datacenter).

#### Additional Workshops in 2008:

New York City–May 20, 2008

Syracuse, NY–July 29, 2008

Buffalo, NY–September 9, 2008

New York City–November 6, 2008

**You must RSVP in order to attend.**  
**Seats are limited, [reserve now](http://www.ashrae.org/datacenter).**

#### Attendees will receive 3 ASHRAE design manuals at no cost:

- Thermal Guidelines for Data Processing Environments
- Improving Datacom Facility Energy Efficiency
- High Density Data Centers–Case Studies and Best Practices



For more information, visit [www.ashrae.org/datacenter](http://www.ashrae.org/datacenter)

Brian Haynes, Marketing Specialist - American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Direct Line: 678-539-1132 Fax: 678-539-2132 eMail: [BHaynes@ashrae.org](mailto:BHaynes@ashrae.org) Web: [www.ASHRAE.org](http://www.ASHRAE.org)

# ASHRAE Satellite Broadcast/Webcast



**April 16, 2008**  
1:00–4:00 P.M. EDT



## INTEGRATED BUILDING DESIGN: Bringing the Pieces Together to Unleash the Power of Teamwork

This broadcast explains what you and other members of the building team must do to advance high-performance buildings with improved design, construction and operations processes. Buildings that meet the needs of occupants and truly achieve sustainability objectives can only be created if the building community shares its knowledge and experiences. Join ASHRAE in learning more about your role in integrated building design and helping to create a sustainable built environment.

This free program is sponsored by ASHRAE's Chapter Technology Transfer Committee. For complete details, visit our website at [www.ashrae.org/ibdbroadcast](http://www.ashrae.org/ibdbroadcast).

### How to Participate

- You may host a broadcast site for your colleagues.
- You may register to view with others at a site near you.
- You may register to view the Webcast on your PC.

### PDH Credits

Three (3) Professional Development Hours or three (3) AIA Learning Units will be awarded to viewers who complete the "Participant Reaction Form" following the broadcast.

Where: Bathtub Billy's Sports Bar & Restaurant  
630 West Ridge Road, Rochester, NY

Lunch at 12:00 PM, Telecast: 1:00 - 4:00 PM  
Menu: Chicken Parmesan w/ salad, cookies, beverages.

Price: \$30 / person. Reservations required by 4/11/08 to Lynne at RES (Phone: 585-254-2350).

\*\*\*\*\* 3 PDH Credits \*\*\*\*\*

### About the Presenters

Kent Peterson, ASHRAE's 2007-2008 president, will introduce the broadcast program

- Walter Grondzik, Architectural Engineer and Professor in the Department of Architecture, Ball State University, Muncie, Indiana—"What is Integrated Building Design?"
- Charles Gullledge III, P.E., MAI, CSI, ASHRAE Distinguished Lecturer, Senior Mechanical Engineer, AC Corporation, Greensboro, North Carolina, "The Integrated Design Process"
- Drury B. Crawley, Technology Development Manager, U.S. Department of Energy, Washington, DC—"Achieving Net-Zero Energy Buildings Through Integrated Building Design?"
- Paul Torcellini, Team Leader for Commercial Buildings Research, National Renewable Energy Laboratory, Golden, Colorado—"Bringing the Pieces Together—Actual Applications"

### New Member Discount

Non-member participants will be given a \$50 discount for applying for ASHRAE membership. A special membership application will be available at satellite broadcast sites or by request at [membership@ashrae.org](mailto:membership@ashrae.org).

### Registration

Online registration for satellite site coordinators and Webcast viewers will begin March 1, 2008, at [www.ashrae.org/ibdbroadcast](http://www.ashrae.org/ibdbroadcast). Satellite viewer registration will begin March 15, 2008. There is no fee for registration. If you have any questions, call 678-539-1139 or email [ashrae-satellitebroadcast@ashrae.org](mailto:ashrae-satellitebroadcast@ashrae.org).

# 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)

## 2007-2008 Presidential Award of Excellence Summary

Chapter #	Chapter Name	Chapter Members / Students	Member Promotion	Student Activities	Research Promotion	Chapter Technology Transfer	History	Chapter Operations	Chapter PAOE Totals
11	Rochester	218 /13	50	100	130	360	225	200	1065





Please apply on-line at:  
[https://sjobs.brassring.com/1033/asp/tg/cim\\_jobdetail.asp?partnerid=194&siteid=80&AReq=4732BR](https://sjobs.brassring.com/1033/asp/tg/cim_jobdetail.asp?partnerid=194&siteid=80&AReq=4732BR)

**AutoReqld** 4732BR

**Common Job Title** HVAC/Plant Operations Technician

**Primary Work Location** NY, Webster

**Employee Classification:** Regular Full-Time

**Job Description**

• At **Xerox**, where business runs on fresh ideas, staying on the crest of digital technology demands originality, creativity, and ingenuity. That's why Xerox recruits exceptional people, whose professional talents are fueled by imagination. We've created a workplace where inventiveness flourishes, where employees are encouraged to express their vision, their ideas, and their leadership. Our products and technology represent the leading edge of the industry. They integrate technology, the web, business process, and the way people work in order to deliver to our customers the best document solutions. **Position Summary:** This position in the Xerox Site & Facilities Services group is for a technician in the HVAC/R field. The person will work with an Engineer to perform all varieties of work within the HVAC/R trade, such as preventive maintenance, corrective maintenance and minor project work. The equipment serviced ranges from commercial to industrial in size and complexity and includes hot water and steam boilers, condensate returns, chillers and cooling towers, compressors (air and refrigeration), air handlers, Direct Digital Control, reverse osmosis and deionizers, water treatment, etc.

**Responsibilities:**

The successful candidate would be expected to work with the Engineer to perform all duties as required to maintain the equipment.

Some heavy lifting and working in sometimes awkward positions may be required.

- Some field experience field helpful, but not required.
- Work Schedule: Straight days but candidates must be flexible to work rotating shifts in the future.

Assisting Maintenance and Senior Maintenance Engineers with work assignments and supporting Watch Engineers as required.

**Requirements:**

- The position requires, at minimum, an two year (AS or AAS) or certificate in HVAC/R from an accredited institution.

- Computer literacy: Microsoft XP and Office products.

The successful candidate will be expected to become a member of the International Union of Operating Engineers IUOE Local 832s and, over time, to obtain a Universal Refrigerant license and a City of Rochester Steam-3 license.

**Drawing on diversity of a global workforce and offering an equal opportunity to achieve success. EOE M/F/D/V.**



## Proposed Standard for High-Performing Buildings Open for Public Review

**ATLANTA** – A proposed standard that will essentially define high-performing buildings in code-intended language is one step closer to completion. Proposed Standard 189.1, *Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings*, is now open for its second public review.

Proposed Standard 189.1 will provide minimum requirements for the design of high-performance new commercial buildings and major renovation projects, addressing energy efficiency, a building's impact on the atmosphere, sustainable sites, water use efficiency, materials and resources, and indoor environmental quality. It is being developed by ASHRAE, the Illuminating Engineering Society of North America (IESNA) and the U.S. Green Building Council (USGBC).

"This standard is an energy-saving stepping stone toward ASHRAE's goal of

net-zero-energy buildings," says John Hogan, chair of the committee that wrote the standard. "This is a goal that IESNA and the USGBC support as well as partners in this standard's development. It also gives building owners or jurisdictions that voluntarily choose to adopt the standard a tool for constructing truly high-performing buildings that provide energy-efficient, safe and comfortable environments for occupants."

By applying the minimum set of prescriptive recommendations, Standard 189.1P leads to site energy savings ranging from 10 to 41 percent over Standard 90.1-2007, including plug and process loads and all other energy consumption for the building, with an average of 24.9 percent for all climates.

The proposed standard also provides indoor water savings of 35 percent for an office building and 26 percent for a multifamily building.

The indoor air quality criteria have been

coordinated with ASHRAE's IAQ Design Guide (under development), and the commissioning criteria have been more-closely aligned with ASHRAE's commissioning guidelines.

The first public review generated 900 comments.

Proposed ASHRAE standards, guidelines and addenda to standards are available only during public review periods. To read the draft standard or to comment, visit [www.ashrae.org/publicreviews](http://www.ashrae.org/publicreviews). The public review began Feb. 22 and ends April 7, 2008.

*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.*

### Disclaimer

"ASHRAE has compiled this publication with care, but ASHRAE has not investigated, and ASHRAE expressly disclaims any duty to investigate any product, service, procedure, design or the like which may be described herein.

The appearance of any technical data, editorial material, or advertisement in this publication does not constitute endorsement, warranty, or guaranty by ASHRAE of any product, service, procedure, design or the like. ASHRAE does not necessarily agree with any statement or opinion in this publication. The entire risk of the use of any information in this publication is assumed by the user. Statements made in this publication are not expressions of the Society or of the Chapter and may not be reproduced without special permission".

### 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

FEBRUARY 2008

MEMBERS FIRST!

VOLUME 2 ISSUE 7

## MESSAGE FROM THE TECHNOLOGY COUNCIL CHAIR

The Society membership and staff are currently involved in a number of important technical activities. Just a few highlights are listed below:

**Incoming Tech Council Members** – Sheila Hayter and Art Giesler both have been elected to three year terms on Tech Council beginning July 2008. With their backgrounds on other ASHRAE committees and councils and their service on the Board of Directors, they will bring valuable experience, insight, and perspective to Technology Council.

**HQ Renovation** – Staff moved out of ASHRAE Headquarters in September 2007, with the renovation scheduled to be completed in June 2008. While there have been a few hiccups and change orders, the project is on schedule and on budget. Energy modeling is a challenge because no existing program can handle a dedicated OA system with a desiccant wheel, ground source heat pumps, and a variable refrigerant flow system in the same building. Progress can be viewed at:

<http://images.ashrae.biz/renovation/renovationalbum/11192007/index.html>

**Distribution of AEDGs** – Complimentary copies of the K-12 AEDG were sent to approximately 14,000 school administrators in late January. In addition, all of the Advanced Energy Design Guides are available as free downloads from the ASHRAE website at [www.ashrae.org/technology/page/938](http://www.ashrae.org/technology/page/938). President Kent Peterson sent a message to all members announcing this initiative.

**High Performing Buildings Magazine**, which features case studies of innovative designs and technologies with actual performance data, was launched this fall and was very well received. It can be viewed at [www.hpbmagazine.org/](http://www.hpbmagazine.org/).

**Conferences and Expositions Committee** – The ASHRAE Board voted in NY to create a new committee to coordinate all ASHRAE conferences and expositions and respond to the many growing opportunities for ASHRAE.

**Handbook Central Website** was recently launched to facilitate handbook review and chapter updates by the cognizant Technical Committees. It can be viewed at [www.ashrae.org/publications/page/1554](http://www.ashrae.org/publications/page/1554).

**Hot and Humid Design Guide** – The first edition has been published and is available in the ASHRAE bookstore. The second edition will include additional material and is due out this time next year.

## PEER REVIEW OF IAQ GUIDE

ASHRAE, in collaboration with AIA, BOMA, SMACNA, USGBC, and the U.S. EPA is developing an Indoor Air Quality (IAQ) Guide for commercial and institutional buildings. ASHRAE is soliciting peer review remarks on a 60% draft from these partner organizations, various ASHRAE Committees, and other interested individuals. The current review is open from February 19 through March 7. The document can be accessed, along with the review form, at:

[www.ashrae.org/technology/page/678](http://www.ashrae.org/technology/page/678).

If you have time, please take a look at the draft and provide your feedback. Your input is important and will be greatly appreciated.

*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).*

## RESEARCH ADMINISTRATION COMMITTEE (RAC)

The Research Administration Committee (RAC) works with ASHRAE's TCs, TGs, SSPCs, and Standing Committees to develop, manage, and disseminate ASHRAE research. The energy and commitment of these committees ensures that ASHRAE research continues to lead the advancement of HVAC&R arts and sciences.

Since the beginning of the 2007-2008 Society year, RAC has reviewed forty-three new research ideas and eighteen project work statements. Thirteen of the new research ideas have been approved and are currently being developed into work statements. Fourteen projects went out to bid in Fall 2007 and as many as twelve additional projects could be bid in Spring 2008. As always, a complete list of ongoing research projects, projects out for bid, and research ideas under development are available from the Research section of the ASHRAE website at:

[www.ashrae.org/technology/page/39](http://www.ashrae.org/technology/page/39)

The site also provides access to the final reports of hundreds of previous ASHRAE research projects, which is a free service for ASHRAE members.

ASHRAE research is paid for by member contributions and performed by contractors. However, the planning, development, and monitoring of ASHRAE's research program relies on countless hours of volunteer efforts by ASHRAE members. We recognize outstanding contributions with the annual Service to ASHRAE Research Award, presented each year at the Winter Meeting. Dr. John Andrews was honored in New York as the 2008 recipient of this award. For the past 15 years, Dr. Andrews has provided much of the research direction for TC 6.3 Central Forced Air Heating and Cooling Systems. In addition to his leadership, he authored work statements and served on project monitoring committees for four different research projects that supported the development of ASHRAE Standard 152, Method of Test for Determining the Design and Seasonal Efficiencies of Residential Thermal Distribution Systems. He also facilitated the co-funding of three of these projects by Brookhaven National Laboratories. Perhaps most significantly, over the past three years, Dr. Andrews has organized an informal Residential and Small Commercial Research Coordination Group, including representatives from one SSPC and eleven TCs in five sections, to address common research interests in the areas of residential and small commercial buildings.

The continued vitality of ASHRAE's research program depends on the development of the next generation of researchers by fostering the involvement of university faculty members and students in HVAC&R research. ASHRAE recognizes and encourages their involvement through a variety of awards and procedures. Education and

continued next column

## RESEARCH ADMINISTRATION COMMITTEE cont'd

Outreach is one of the five major themes of the current Research Strategic Plan and we typically included student involvement as a criterion in proposal evaluation. Almost two-thirds of our current research projects are led by University investigators. The following programs are additional efforts to involve students and educators in ASHRAE research:

- **The Homer Addams Award** recognizes outstanding performance by a student working on an ASHRAE research project. At the New York meeting, the 2008 award was presented to Bereket Nigusse at Oklahoma State University. His work on research project 1326-RP Application Manual for Non-Residential Load Calculations is improving our ability to predict peak cooling loads, especially in highly-glazed rooms.
- **The New Investigator Award** provides support to new tenure-track faculty members, encouraging teaching and research in the HVAC&R field. The \$45,000 award is given annually. At the New York meeting, the 2008 New Investigator Award was given to Andrew Summers, an Assistant Professor at Miami University performing research to improve the wetability of metallic heat exchanger surfaces.
- **The ASHRAE Grant-in-Aid Program** provides \$10,000 fellowships to graduate students performing research in the HVAC&R field. Over the past two years, ASHRAE has awarded thirty-six fellowships to students at educational institutions representing ten of ASHRAE's thirteen regions and three countries.

The strategic direction of ASHRAE research is influenced by a broad range of factors within the building industry and the ASHRAE community. The impact of these factors are seen in two recent strategic documents developed by ASHRAE. The 2006 ASHRAE Strategic Plan includes the advancement of sustainable building design and operations. The ASHRAE Vision 2020 seeks to develop tools that would enable net-zero energy buildings (NZEB), which produce as much power as they consume. ASHRAE has also partnered with the US Green Building Council to help develop a National Green Building Research Agenda. Every five years, RAC organizes a Research Advisory Panel to develop a Research Strategic Plan for ASHRAE in the context of these diverse influences. The new panel was convened for the first time at the Winter Meeting in New York. Over the next several years, with input from ASHRAE members and the broader HVAC & R research community, the panel will develop the ASHRAE Research Strategic Plan 2010-2015.

## TECHNICAL ACTIVITIES COMMITTEE

As a step toward achieving the Society's Strategic Plan (SP2006) objectives, TRG 4.SBGM (Sustainable Building Guidance and Metrics) and TRG 7.SBOMCA (Sustainable Building Operations, Maintenance and Cost Analysis) have cataloged current technical activities within ASHRAE and identified several potential connections with partner organizations. Building upon this foundation, a number of ideas for new activities were brought forward at the Winter meeting in New York. Each TRG is now developing brief descriptions of their top four ideas for discussion at the Summer meeting in Salt Lake City. Ultimately, the ASHRAE TC/TG/TRGs will develop specific, detailed plans to act upon these recommendations.

TC 9.6 – Healthcare Facilities, in coordination with the Environmental Health Committee, is proposing to develop a new design guide on Quarantine Stations and to update the ASHRAE HVAC Design Manual for Hospitals and Clinics. Both design guides are expected to address the latest technical guidance on SARS, bird flu, and other airborne-transmitted diseases. Potential funding and collaboration opportunities with other organizations (e.g., ASHE, AIA, CDC, NIH) are being pursued.

TC 9.11 – Clean Spaces met in New York to begin work on a new design guide for clean spaces. The guide will be developed by volunteers with expertise in clean space applications such as semiconductors, aerospace, pharmaceuticals, and bulk chemicals.

TRG7.UFAD has finished identifying opportunities to improve the current ASHRAE Underfloor Air Distribution Design Guide. At the New York meeting, the TRG completed a preliminary outline for the revised guide and is now in the process of writing new text. The revised guide is anticipated to be completed by January 2009.

Preparations for an April 2008 workshop to review the 2007 Applications Volume of the Handbook are underway. The workshop, sponsored by TAC and the Handbook Committee, will identify specific opportunities to make the Volume more clear, relevant, and useful. A review panel of twelve end-users has been selected and has already met twice to discuss their initial reviews. The April workshop will be the last in a series of four to review the Handbook. In the future, attention will shift to implementing the highest priority recommendations and tracking the progress of Handbook revisions.

At the New York meeting, the Technical Activities Committee and Technology Council presented the George B. Hightower Technical Achievement Award to Howard McKew, recognizing his many years of contributions to the

continued next page

ASHRAE Technical Committee program and his leadership since the early 1980's in improving the Systems and Equipment Handbook Volume. In particular, Mr. McKew's recruitment of young engineers to participate in Handbook reviews has provided fresh insight and resulted in many important changes. He is the sixth recipient of the award since its creation in Society year 1999-2000.

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!

## REFRIGERATION COMMITTEE

An ASHRAE Position Document on Natural Refrigerants is being developed, with several members of the Refrigeration Committee are on the Position Document Committee. An informal meeting of the PDC took place in New York, where the document development was initiated.

The Refrigeration Committee completed a detailed outline for a webinar entitled Introduction to Refrigeration. Speakers have been identified and confirmed. The presentation will be a 2-hour live web-seminar for chapters to use at their monthly chapter meetings. Information on this event will be forwarded to the Chapter Technology Transfer Committee and the Professional Development Committee. More information will be supplied to the chapters as this program gets to closer to release.

TC 10.3 (Refrigerant Piping) is leading an effort to develop content for a chapter on carbon dioxide for the 2010 Refrigeration Handbook volume. Progress is being made as an outline and chapter content is already available for review.

*To sign up for the Members First!  
Newsletter Listserv,  
please use the following link:*

<http://www.ashrae.org/publications/detail/16150>

## ENVIRONMENTAL HEALTH COMMITTEE

The six Emerging Issues Papers developed in 2007 are being prepared for dissemination pending a final review to assure that these papers are providing useful information on these new topics and are not construed as Position Documents or other Board approved publications. Three new Emerging Issues papers are under development and will be completed by June 2008. They cover: "What are the roles and responsibilities of professional engineers to environmental health?", "Unknown and unintended consequences of the development of sustainable buildings?", and "Air Conditioning and Humidity control in hot humid climates with self contained equipment."

Revisions to the Environmental Health chapter for the 2009 Handbook of Fundamentals, which are more practitioner oriented, were approved by the committee for publication. The EHC Handbook subcommittee is assisting in the development of other environmental health information for inclusion in selected chapters of the 2007 Handbook of Applications.

EHC is the cognizant committee for several Position Documents, with status as follows:

- Airborne Infectious Diseases – final draft expected in March 2008.
- Unvented Combustion Devices – a revised title, purpose and scope was approved in January and the draft is expected by June 2008.
- Environmental Tobacco Smoke – a review of the currency of the references will be completed by March 2008.
- Indoor Air Quality – a new title, purpose and scope has been developed for a revision of this Position Document.
- Mold & Moisture – EHC is a co-cognizant committee with TC 1.12 for the revision of this Position document and a committee is being formed

EHC and TC 2.03 sponsored Seminar 42 "Indoor Air Chemistry, IAQ and Health" in New York City, with the following papers:

- Ozone's Impact on Public Health: Contributions from Indoor Exposures to Ozone and products of Ozone-Initiated Chemistry
- Evidence for Ambient Ozone's Impact on Building Occupant Health
- Ozone and ASHRAE: Exploring the connections

continued next column

Continued from previous column

EHC program subcommittee has prepared an ongoing series of program topics for presentation at the next several annual and winter meetings.

EHC has recommended that IAQ 2010 be held in Region XIII, with a focus on airborne transmission of infectious diseases, and has recommended a chair for the conference steering committee.

## STANDARDS

### UPDATE: ONLINE COMMENT DATABASE

In the last **Members First!** newsletter, the ASHRAE Standards Committee noted its efforts to develop an Online Comment Database, which will make it easier than ever to submit comments to public reviews and for PC's to receive, process and respond to comments.

The Online Comment Database was previewed to Standards Project Committee chairs in New York, and the current status of the database is described here.

ASHRAE Staff began reviewing the online system on February 6. Meanwhile the contractor is working to tie the online comment database to NetFORUM (the basis of ASHRAE's overarching software system) and add the necessary security.

The testing schedule calls for a fully working version that can be tested by February 14. At that time, ASHRAE headquarters will post some documents for comment and assign responsibility for those documents to a test committee, which will consist of all Standards Committee members and PC. That review will allow the test committee to login and have the authority to access all of the functions for the documents posted (comment, respond to comments, reply to responses, etc.). Testing committee members will also be providing comments through ASHRAE headquarters to the system developers to improve the function of the system.

Testing under this set-up will continue through the end of March. ASHRAE staff will then review all of the suggestions and comments collected during testing and determine which changes should be added immediately and which can be incorporated at a later date. After the changes are made the system developers will produce some basic reporting mechanisms and make them available in the system.

The plan is to have the system working and online for the March 2008 public reviews, which are scheduled to begin on March 21st. We will continue to keep you informed about the latest developments.