



A publication of the Kansas City Chapter of the American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Editor: Jason Funk <http://www.kcashrae.org/>

December 2011

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## December Program

**Holiday Inn Hotel & Suites**  
**Overland Park – West**  
**8787 Reeder Road (Hwy 69 and 87th Street)**  
**Overland Park, Kansas 66214**

**December Meeting**  
**Monday, December 5, 2011**  
**11:30 – 1:30**  
**Lunch meeting**

**Topic: Steam System Design in Hospitals**  
**Speaker: Linn Van Winkle**

**ALSO: ASHRAE RESEARCH DONOR RECOGNITION**

### Menu

*Sautéed Chicken Breast Marsala*  
*Chicken breast sautéed with mushrooms in a Marsala wine sauce served over pasta*  
*Chocolate Cake*  
*House salad, fresh baked bread and herbed butter,*  
*Coffee, iced tea and water*

**RSVP via the ASHRAE Website by **Deadline Thursday, December 1<sup>st</sup> at Noon****

**\$20 – Members      \$25 after RSVP deadline**

**Student Sponsorship-\$10**

## December Program

At the December Meeting, we will be recognizing those individuals and companies that donated to ASHRAE Research. Additionally, please welcome our guests from the Kansas City Area Healthcare Engineers.



### **Steam System Design in Hospitals**

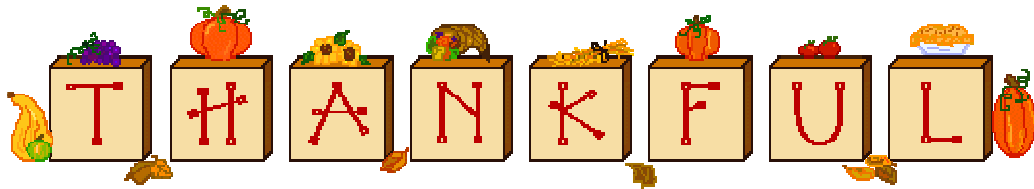
This presentation gives an overview of steam system design in Hospitals to include piping layout, steam system components and steam design best practices. Learn the basics of various trap designs and take a close look at hospital applications.

**Speaker:** Linn Van Winkle – Associated Equipment Sales



Hope to see everyone at this month's technical program! Please RSVP at [www.kcashrae.org](http://www.kcashrae.org) by Noon, December 1, 2011.

# President's Message



The December Breeze is published right around Thanksgiving this year and I would like to take this opportunity to say 'Thank You' to some of the people that have been involved in my ASHRAE career. One comment I consistently hear from people involved in ASHRAE is that the personal relationships that are developed as part of ASHRAE are some of the most valuable relationships in their career. With that thought I would like to thank the following and I apologize in advance if I inadvertently leave someone out.

Thank you for.....

- |                  |  |
|------------------|--|
| Adam Bishop      | ...being a resource to touch base with from a very successful chapter.   |
| Stuart Braden    | ...setting a great example to follow on how to be the Chapter President.   |
| Jim Burger       | ...getting me involved in the Kansas City Chapter.   |
| Ken Clark        | ...inspiring me to become involved in Society Level activities.  |
| Kelley Cramm     | ...bringing a bigger picture perspective to our KC Chapter programs.   |
| Jeff Ewens       | ...your positive attitude towards ASHRAE that I can only dream about.  |
| Kevin Harre      | ...planting the seed in my mind to become involved in the KC Chapter.  |
| Pat Ivesdal      | ...creating such a welcoming environment at my first KC Chapter meeting in 1999 after moving from Minnesota.                             |
| Tom Lewis        | ...inspiring my involvement in ASHRAE Technology and providing an example for how to be a Regional Vice Chair.                           |
| Larry Staples    | ...your enthusiasm and love of ASHRAE and continuing to be involved in the chapter and provide guidance to new chapter officers.         |
| Steve Tredinnick | ...showing me the benefits of ASHRAE involvement at the local level early in my career and Society level involvement later in my career. |

Transitioning back to the current year, last month featured Kevin Cash from Trox USA talking about Chilled Beam Design. Our next meeting is December 5<sup>th</sup>, a joint meeting with KCAHE featuring **Lynn Van Winkle** discussing **Steam System Design in Hospitals**. We look forward to seeing you there!

There are two other items I would like to point out:

- 1) **On Line Meeting Sign Up:** Beginning in January, the [www.kcashrae.org](http://www.kcashrae.org) will be the only location to sign up for the upcoming meetings. Please use this month to get comfortable with the process while avoiding the long line and the sign-in table.

- 2) ***ASHRAE Winter Conference*** – The Winter Conference is coming up quickly in Chicago on January 21-25, 2012. See <http://www.ashrae.org/events/page/chicago2012>.

Please do not hesitate to contact me with any questions or concerns or any suggestions you might have to make ASHRAE and our chapter more productive. E-mail: [bellis@burnsmcd.com](mailto:bellis@burnsmcd.com).

Blake Ellis  
Chapter President





*Don't Wait, Please Donate for the 2011-2012 Calendar Year*

We were able to raise \$50 with last month's 50/50 raffle thanks to the generosity of **Lee Murray** who gave his winnings to ASHRAE Research. This is the second time Lee has won the raffle and the second time he's donated the winnings to ASHRAE Research this year.

Thanks Lee for your support!

We will be recognizing honor roll donors (individual and corporate) for to the 2010-2011 Research Promotion Campaign at the December meeting with a certificate and a group photo.

We have had several donors already for the 2011-2012 Campaign. Those who have contributed to this year's campaign are:

**Individual Donors – Honor Roll (\$100+ )**

Gregory A. Paulsen  
Greg Towsley  
Vince W. Masucci

**Corporate Donors – Silver (\$1000+)**

McQueeney Group

**Corporate Donors – Bronze (\$500-\$999)**

A-J Manufacturing Co. Inc.

**Corporate Donors – Honor Roll (\$150-\$499)**

George Butler & Associates

**Board of Governors “Full Circle” Donors – Honor Roll (\$100+)**

Stuart Braden, Kelly Johnson, Blake Ellis, Jim Van Hoecke, Tom Benassi  
Jarrod Foster, Austin Allen, Jason Funk

This list will be updated monthly with the names of the individuals and companies who have donated to the 2011-2012 Research Promotion Campaign. Contact Jim Van Hoecke at [jvanhoecke@mcqueeneygroup.com](mailto:jvanhoecke@mcqueeneygroup.com) or 913-396-4705 to make your donation to the 2011-2012 Campaign and get your name added to the list!

Thanks again to all of our donors,

Jim Van Hoecke

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# SUSTAINABLE ENGINEERING COMMITTEE

As recently announced, the Kansas City ASHRAE chapter has organized a Sustainability Committee. ASHRAE on both a national and regional level has been asking chapters to emphasize sustainability and sustainable practices within their organizations. This committee will help our chapter reach this goal.

Some of the goals that the committee is evaluating include the following:

- Ensure that our chapter is practicing sustainability in its regular business.
- Promote sustainable engineering practices and educate the membership on what the most up-to-date practices are.
- Work with the USGBC and other built-environment organizations to promote sustainable practices in the greater Kansas City community.
- Guide our membership to the experts in sustainability and energy-efficiency practices to support efficient, sustainable design.
- Other goals as determined by the committee and the chapter.

We are currently in the process of forming the committee with a member base interested in promoting sustainable practices throughout our chapter and the membership. The formation of this committee has opened up new opportunities for you and your peers to participate in ASHRAE. If you would like to join in the mission of becoming a more sustainable design community, please contact Gary Schrader at [gary@lankfordassoc.com](mailto:gary@lankfordassoc.com) for opportunities to serve on the Sustainability Committee.

Thanks,  
Gary

## CHAPTER TECHNOLOGY TRANSFER COMMITTEE (CTTC) TECHNOLOGY AWARD

Annually, ASHRAE conducts an award competition to recognize outstanding achievement in energy management and energy conservation design. Members are encouraged to submit award applications to the Chapter for judging. Winners at the Chapter level will move on to the Regional competition. Regional winners progress to be judged on the National level. Submissions will be judged in one of the following categories:

1. Commercial Building (new and existing)
2. Institutional Buildings (new and existing)
  - o Educational Facilities (New and Existing)
  - o Other Institutional (New and Existing)
3. Health Care Facilities (new and existing)
4. Industrial Facilities (new and existing)
5. Public Assembly Facilities (new and existing)
6. Residential Buildings (new and existing)

For a project to be eligible for an award, the following criteria must be met:

- Applicant must be an ASHRAE member or Associated Society
- The project must have been in operation one year
- Must be submitted to the Kansas City CTTC Chair (Tom Benassi) by **March 31**

Additional information about the Technology Awards can be found at <http://www.ashrae.org/technologyawards>.

ASHRAE Kansas City Chapter has had success at both the Regional and National levels of competition. Please feel free to contact Tom Benassi ([tbenassi@mmcontractors.com](mailto:tbenassi@mmcontractors.com)) for assistance in developing your application





**ASHRAE**  
**CHAPTER/REGIONAL TECHNOLOGY AWARD APPLICATION**  
**SHORT FORM**

**(Revised June 2011)**

**INTRODUCTION:**

*This Short Form has been developed to stimulate more participation in chapter and regional competition. **This form is not intended to replace the full Society Technology Award Application form.** Regional winners using the short form will be required to complete the full Technology Award Application form before their applications can be forwarded for Society Competition. (This form does not require extensive narrative, plans or photographs.)*

**INSTRUCTIONS:**

- A. The individual submitting the Technology Award Application must be a current member of ASHRAE who had a significant role in the design or development of the project.
- B. Complete the "Short Form" and use it as the cover page.
- C. Provide a system schematic/diagram not larger than 11" x 17" in size. In addition, attach a brief narrative (maximum of 2 pages). The narrative should include the gross and net building areas applicable to the project, a description of the major building areas (i.e., operating rooms, laboratories, computer rooms, industrial processes, offices, warehouses) and a brief discussion regarding the following five criteria (if a criterion is not applicable, state accordingly):
- Energy Efficiency
  - Indoor Air Quality
  - Innovation
  - Operation & Maintenance
  - Cost Effectiveness
  - Environmental Impact
- D. Submit your schematic, brief narrative, and completed form to your Chapter Technology Committee Chapter (CTTC) Chair for judging at the chapter level in accordance with their instructions.
- E.

The ASHRAE Technology Award program is intended for built projects. First place winning projects should be eligible for submission to the Society level competition on September 1<sup>st</sup> of the following Society calendar year. Therefore, a project submitted to a Chapter or Regional competition shall be occupied prior to September 1<sup>st</sup> of the current Society year in order to satisfy the preceding Society level competition requirement of one full year of occupancy.

First place winners in each category from chapter competition will be submitted by the CTTC Chapter Chair to the CTTC Regional Vice Chair for judging in the Regional Technology Awards competition. At the discretion of the CTTC Regional Vice Chair, this may require completion of the full Society Technology Award Application form if the chapter submission was done on the Short Form Application.

The CTTC Regional Vice Chair will invite first place winners in each category from regional competition to submit them for judging in the Society level Technology Awards competition. The regional winners will be given the opportunity to incorporate new information or otherwise improve their submittal before submitting it to the society level competition (e.g., by addressing comments from regional judges). At the discretion of the judging panels at the chapter and regional competitions, more than one first place winner may be awarded in each category.

For the regional competition, submit the number of copies requested by the Regional CTTC Vice Chair. The CTTC Regional Vice Chair may require entries into the regional competition to be done on the full Society Technology Award Application form. In any case, all submissions to the Society level competition must be done on the full Society Technology Award Application form.

- F. It is highly recommended that each entrant confirm by letter (and retain a copy for record) to the owner that the owner has granted permission to submit this project to competition.

NOTE: ASHRAE Technology Awards are the HVAC&R industry's most prestigious honor for efficient energy use in buildings and environmental system performance. While the awards do not certify responsible charge or professional license status, they do recognize outstanding design innovation and successful implementation.

# CHAPTER/REGIONAL TECHNOLOGY AWARD - SHORT FORM

**1. Category (Check one and indicate New or Existing, if applicable)**

Commercial Buildings  New or  Existing

Institutional Buildings:

Educational Facilities  New or  Existing

Other Institutional  New or  Existing

Health Care Facilities  New or  Existing

Industrial Facilities or Processes  New or  Existing

Public Assembly  New or  Existing

Residential (Single and Multi-Family)

**2. Name of building or project:** \_\_\_\_\_

City/State: \_\_\_\_\_

**3. Project Description:** \_\_\_\_\_

Project Study/Design Period: \_\_\_\_\_

Percent Occupancy at time of submission: \_\_\_\_\_

**4. Entrant (ASHRAE member with significant role in project):**

a. Name: \_\_\_\_\_  
Last First Middle

Membership Number: \_\_\_\_\_

Chapter: \_\_\_\_\_

Region: \_\_\_\_\_

b. Address (including country): \_\_\_\_\_

City State Zip Country

c. Telephone: (O) \_\_\_\_\_ d. Email: \_\_\_\_\_

e. Entrant's Role in Project: \_\_\_\_\_

f. Member's Role in Project: \_\_\_\_\_

g. Member's Signature: \_\_\_\_\_

**5. Engineer of Record:** \_\_\_\_\_

By affixing my signature above, I certify that the information contained in this application is accurate to the best of my knowledge. In addition, I certify that I have discussed this entry with the owner and have received permission from the owner to submit this project to the ASHRAE Technology Awards Competition.

# ASHRAE Learning Institute

## Seminars & Courses at ASHRAE's Winter Conference in Chicago, IL

### 2 WAYS TO REGISTER

**Internet:** [www.ashrae.org/lasvegascourses](http://www.ashrae.org/lasvegascourses)

**Phone:** Call 1-800-527-4723 (US and Canada) or 404-636-8400 (worldwide)

### Full Day Professional Development Seminar

\$485/\$395 ASHRAE Member -- Earn 6 PDHs/AIA LUs or .6 CEUs

**The Commissioning Process in New & Existing Buildings Using Standard 90.1 to Meet LEED Requirements**  
Saturday, Jan 21 – 8:00 a.m. to 3:00 p.m. Tuesday, Jan 24 – 9:00 a.m. to 4:00 p.m.

**Data Center Energy Efficiency**  
Saturday, Jan 21 – 8:00 a.m. to 3:00 p.m.

**Energy Modeling Best Practices and Applications:  
HVAC/Thermal**  
Tuesday, Jan 24 – 9:00 a.m. to 4:00 p.m.

**Integrated Building Design**  
Saturday, Jan 21 – 8:00 a.m. to 3:00 p.m.



### Half Day Short Courses

\$159/\$119 ASHRAE Member -- Earn 3 PDHs/AIA LUs or .3 CEUs

**Understanding Air-to-Air Energy Recovery Technologies & Applications Comply with Standard 90.1-2010: HVAC/Mechanical**  
Sunday, Jan 22 – 2:00 p.m. to 5:00 p.m. Monday, Jan 23 – 2:30 p.m. to 5:30 p.m.

**Understanding & Designing Dedicated Outdoor Air Systems (DOAS) Evaluating the Performance of LEED-Certified Buildings**  
Sunday, Jan 22 – 2:00 p.m. to 5:00 p.m. Monday, Jan 23 – 2:30 p.m. to 5:30 p.m.

**Application of Standard 62.1-2010: Multiple Spaces Equations & Spreadsheet Calculation**  
Sunday, Jan 22 – 2:00 p.m. to 5:00 p.m.

**Combined Heat & Power**  
Tuesday, Jan 24 – 9:00 a.m. to 12:00 p.m.

**Basics of High-Performance Building Design**  
Monday, Jan 23 – 8:30 a.m. to 11:30 a.m.

**Healthcare Facilities: Best Practice Design**  
Tuesday, Jan 24 – 9:00 a.m. to 12:00 p.m.

**Complying with Standard 90.1-2010: Envelope/Lighting**  
Monday, Jan 23 – 8:30 a.m. to 11:30 a.m.

**Project Management for Improved IAQ**  
Tuesday, Jan 24 – 9:00 a.m. to 12:00 p.m.

**Energy Management in New & Existing Buildings**  
Monday, Jan 23 – 8:30 a.m. to 11:30 a.m.

**Healthcare Facilities: Best Practice Applications**  
Tuesday, Jan 24 – 1:00 p.m. to 4:00 p.m.

**Advanced High Performance Building Design**  
Monday, Jan 23 – 2:30 p.m. to 5:30 p.m.

**Design Toward Net Zero Energy Commercial Buildings**  
Tuesday, Jan 24 – 1:00 p.m. to 4:00 p.m.

**The Commissioning Process & Guideline 0**  
Monday, Jan 23 – 2:30 p.m. to 5:30 p.m.



## ASHRAE HVAC Design Essential Workshop

January 11-13, 2012 • ASHRAE Foundation Learning Center • Atlanta, GA

### Obtain the skills needed to:

- Improve overall building performance
- Design high-performance HVAC systems
- Effectively collaborate on an integrated design team

ASHRAE has created the HVAC Design Essentials to provide intensive, practical education for designers and others involved in delivery of HVAC services. Developed by industry-leading professionals, this workshop provides participants with training design to accelerate their evolution into effective member on a design, construction or facilities maintenance team.

In addition to gaining in-depth knowledge and understanding, attendees will receive real-world examples of HVAC systems based on the newly renovated ASHRAE Headquarters building. The workshop teaches a systematic approach to guide a design team to a solution that optimally meets the client's expectations.

Visit [www.ashrae.org/hvacdesign](http://www.ashrae.org/hvacdesign) to register

## How can I Become an ASHRAE Member?

We encourage you to join ASHRAE, a leader in sustainability and the premier source for the latest technology in HVAC&R. There are two ways to join ASHRAE. The first and the easiest is to visit the website [www.ashrae.org](http://www.ashrae.org). Or, you can complete the application below and mail it in. You will automatically become a member of the Kansas City chapter after joining. Feel free to contact membership committee chair, Reid Begnoche, [reid.begnoche@siemens.com](mailto:reid.begnoche@siemens.com) with questions.

### Member Benefits and Resources

#### Publications & Resources



- The ASHRAE Handbook — the indispensable, industry-wide resource for all HVAC&R professionals. (Available to Members and Associate Members)
- ASHRAE Journal — the most trusted monthly technical magazine in the HVAC&R community
- ASHRAE Insights — the monthly newsletter of key Society news and activities
- HVAC&R Industry News — a weekly electronic news resource keeping ASHRAE members abreast of the latest industry news and information
- Access to the members-only resource website

#### Professional Education and Career Development



- Maximize your knowledge with seminars and courses from the ASHRAE Learning Institute
- Maintain your professional designation/license with over 40 courses
- Earn PDHs / CEUs / AIA LUs
- Build communication and management skills by participating in a technical program or technical committee

#### Networking



- Meet with industry experts and colleagues at chapter, region and Society meetings
  - Connect locally, regionally and internationally with over 160 chapters worldwide
  - Learn, share and grow at the ASHRAE Annual & Winter Meetings, and the AHR Expo at the ASHRAE Winter Meeting

### What Do Members Say About Being a Member of ASHRAE?

Thirteen years ago, I joined ASHRAE as a student member. Since that time, I have been embraced by a community of peers from throughout the world that continues to help to build both my knowledge of HVAC&R and career as a Professional Engineer.

– RL, Winnipeg, Manitoba, Canada

ASHRAE has provided me with incredible opportunities to network with others in the industry while being of service to them. Now, in my advanced years, I am satisfying my mentoring thirst.

– LS, Prairie Village, Kansas

Being a member of ASHRAE has helped me make invaluable contacts in the HVACR industry - the annual meetings are an easy way to keep on top of every aspect of the industry as they provide opportunities for networking, information about the newest codes and chances to participate in updates to standards.

– SS, Washington, DC

To be an ASHRAE member is very important internationally, for me especially, in Argentina and Brazil. With the growth of green buildings, energy savings and sustainability, ASHRAE standards are a valuable resource. The ASHRAE community is a constant source of friends and professionals with similar ways of thinking.

– WL, Buenos Aires, Argentina

# NATIONAL UPDATES

## **Keynote Speakers, ALI Course Announced for ASHRAE High Performance Building Conference**

**Nov. 10, 2011**

ATLANTA - Application techniques, actual performance and policy issues for achieving high performance buildings with deep energy savings are addressed at ASHRAE's upcoming High Performance Buildings (HPB) Conference. Registration is now open.

High Performance Buildings: A Focus on Deep Energy Savings, advances the industry's efforts to change the energy-use aspects of the built environment. The conference takes place March 12-13, 2012, San Diego, Calif., and features 50 presentations in 16 sessions covering a broad range of HPB topics. To register or for more information, visit [www.ashrae.org/HPBconference](http://www.ashrae.org/HPBconference).

"This is a must-attend conference for professionals, researchers and building owners involved in setting policy and applying best practices for energy efficiency in high performance buildings," conference chair and ASHRAE Presidential Member Kent Peterson, P.E., said. "This specialty conference provides a great opportunity to network with the trend setters in building energy efficiency."

With an attendance limited to 300, the conference allows an exchange of ideas and dialogue to facilitate understanding of current energy saving efforts, share best practices and to establish an action plan to substantially improve energy efficiency in buildings.

The conference is presented by ASHRAE's High Performing Buildings Magazine, which publishes articles on measured high performance buildings only. The conference features three HPB case study sessions that include natural ventilation, net zero energy implementation, building controls, Germany's first LEED® Platinum building as well as schools, office buildings and a library.

In addition, a special HPB Magazine session features the editorial advisory board, sharing lessons they have learned from reporting on the experiences of the designers, contractors, suppliers and owners of buildings that have been featured in the magazine. In addition, case studies of selected buildings are presented.

Keynote speakers are:

- \* Jeanne Clinton, special advisor for efficiency at the California Public Utilities Commission (CPUC), appointed by Governor Brown, speaking on "Energy Management Meets Economic Development." Previously she was Governor Schwarzenegger's Clean Energy Advisor at the CPUC, during which time she led the California Solar Initiative and guided California's Long-Term Energy Efficiency Strategic Plan.
- \* Eric Corey Freed, organicARCHITECT, San Francisco, will challenge attendees through his address, "Dodo-Sapiens: How Our Way of Life is Killing Us and the Need for Regenerative, Bio-Based Buildings."
- \* ASHRAE President Ron Jarnagin, who will discuss "ASHRAE's High Performance Building Initiatives: Sustaining Leadership in Sustainability."

The Building Performance sessions address integrated measurement, operation and maintenance practices; thermal and visual performance; residential retrofits; design, operation and tenant behavior; and minimum ventilation rate procedure.

The Policy and Benchmarking sessions cover U.S. Army net zero policy initiatives; NSTAR - HPB as a part of the State of Massachusetts' energy efficiency goals; and CALGreen - California's green building standards code.

The Low Energy Techniques Sessions cover net zero district vs. net zero buildings; the 50% Advanced Energy Design Guide for Small and Medium Office Buildings published by ASHRAE; biomimicry; and high temperature cooling techniques.

Bottom-line results are addressed in the Return on Investment Session with business case studies on net zero energy buildings in San Diego and Phoenix; financial metrics for comparing efficiency and renewables projects; Caltech's Energy Conservation Investment Program; and life-cycle commissioning.

Other sessions cover envelopes, lighting/daylighting, plug loads, operations and integrated building design.

Registration cost is \$650 (\$550, ASHRAE, U.S. Green Building Council and American Institute of Architects members). An "on-demand" Virtual Conference is included with the registration fee. A Virtual Conference only registration is \$149 (\$99, member). The conference will be approved for AIA LUs, PDHs and LEED AP credits.

Also being offered in conjunction with the conference is an ASHRAE Learning Institute seminar, Implementing Standard 189.1-2009 for High-Performance Green Buildings, which focuses on the minimum requirements for the design, construction and plans for operating high-performance buildings. The seminar takes place on March 11, and the cost is \$485 (\$395 ASHRAE, U.S. Green Building Council and American Institute of Architects members). Attendees can save \$100 on the seminar cost if registering for both the seminar and the conference.

#### Call for Posters

Poster presentations are requested for high performance buildings that may be either in design or completed, and will be grouped in two categories: those with one year or more of measured energy data and those relying on modeled energy use. Submissions are particularly encouraged for projects that:

- \* Emphasize innovative strategies to dramatically improve energy efficiency
- \* Demonstrate replicable strategies
- \* Share valuable lessons learned
- \* Have one year or more of measured energy data

Poster proposals are due Jan. 9, 2012, and decisions will be made as posters are submitted. Accepted posters will be displayed at the conference. Poster presenters receive a discounted registration rate of \$500, (\$400, members). To download the poster template or for more information, visit [www.ashrae.org/HPBconference](http://www.ashrae.org/HPBconference).

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.

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## **ASHRAE Tech Program Focuses on Current Practices, 2011 Winter Conference Nov. 3, 2011**

ATLANTA - Current practices related to hot industry topics, such as energy modeling, high performance buildings and integrated design, are featured in the Technical Program at ASHRAE's 2012 Winter Conference.

The 2012 Winter Conference takes place Jan. 21-25, Palmer House Hilton, Chicago. The ASHRAE co-sponsored International Air-Conditioning, Heating, Refrigerating Expo®, held in conjunction with the Winter Conference, will run Jan. 23-25 at McCormick Place.

"The 102 sessions in the Technical Program provide attendees the information they need to stay competitive and educated in today's market," Dennis Wessel, chair of ASHRAE's Conferences and Expositions Committee, said. "The program features 10 program tracks that provide plenty of case study and current-practice sessions on a wide range of pertinent subjects that provide insight into how to do a job better or more efficient."

The technical program features more than 100 programs by nearly 300 speakers with tracks on Energy Efficiency - New Applications and Technology; Energy Modeling Applications; High Performance Buildings; HVAC&R Fundamentals and Applications; HVAC&R System and Equipment; Installation, Operation and Maintenance of HVAC Systems; Integrated Design; Professional Skills; Refrigeration; and Specialized Applications - Healthcare, Laboratories and Data Centers.

As an added benefit, there is a new "mini-conference" on Installation, Operation & Maintenance of HVAC Systems built within the Technical Program. The O&M mini-conference is scheduled on Sunday and Monday.

ASHRAE is also offering a free Conference session at the Expo. This session brings to AHR Expo attendees a program that advances their knowledge on a particular topic. This session is titled "Selection, Operation and Maintenance and Water Treatment for Multi-Metal Boilers" and takes place Monday, Jan. 23, 3 p.m.-4:30 p.m., S106A, McCormick Place. No badge or ticket is required to attend.

In total, the program includes nine technical paper sessions, 31 conference paper sessions and a poster session - 54 application-oriented, non-paper seminars and eight open discussion forums.

Highlights of the Technical Program include:

Energy Efficiency track: "DOAS Parallel Systems, Configuration and Control" and "Case Studies: New Equipment and Applications"

Energy Modeling Applications track: "Integrated Multi-domain Simulations for Innovative Building Design and Operation"

High Performance Buildings track: "Advanced Control and Diagnostic Techniques for Efficient Operation of High Performance Buildings," "UK Perspectives on Incentives for Technologies to Reduce Energy Use," "Thermal Displacement Ventilation Applications for High Performance Buildings"

HVAC&R Fundamentals and Applications track: "How to Specify Seismic Certification," "Loads on the Move: Mobile Apps"

HVAC&R Systems and Equipment track: "Chicago Smackdown: Air-Source vs. Ground Source or Best Practices for Air-Source vs. Ground-Source Heat Pump Systems," "Water-Cooled VRF Systems: An Introduction," "Back to Basics: Selection of Proper Chiller Technology"

Integrated Design track: "Streamlining BIM through Open Information Exchanges," "Advancing the 'I' in BIM"

Professional Skills track: "Protecting Your Design Against Changing Requirements," "Increase the Impact of Your Presentation"

Refrigeration track: "Industrial Refrigeration Worst Practices," "Magneto-Caloric Refrigeration: Are You Attracted to Cool Ideas?," "Advancements and Trends in Low Global Warming Impact Technologies"

Specialized Applications - Healthcare, Laboratories, and Data Centers track: "Optimizing Cleanrooms for High Performance, Energy Reduction and Sustainability," "Liquid Cooling Technologies to Enable High Density and Improve Energy Efficiency of Information Technology Data Center Facilities"

The full Technical Program offers the opportunity to earn a year's worth of PDHs, NY PDHs, AIA LUs and LEED® AP credits.

For more information on the ASHRAE Conference, visit [www.ashrae.org/chicago](http://www.ashrae.org/chicago). For more information on the AHR Expo, visit [www.ahrexpo.com](http://www.ahrexpo.com).

The Chicago Virtual Conference is included with a paid Conference registration-comp and single day registration excluded-and includes on-demand access to all speakers' audio presentations synced to their presentations. Attendees and speakers can post comments on the presentations for a two-week period following the completion of the Conference. Those not attending the Chicago Winter Conference in person may register for the Virtual Conference only. Register at [www.ashrae.org/chicagovirtual](http://www.ashrae.org/chicagovirtual).

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

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## **DOE Updates National Reference Standard for Commercial Buildings to 90.1-2010 Nov.1 , 2011**

ATLANTA - Following preliminary analysis that ASHRAE/IES's 2010 energy efficiency standard contains significant energy savings over the 2007 standard - 18.2 percent source energy savings and 18.5 site energy savings - the U.S. Department of Energy (DOE) has issued a ruling that establishes the 2010 standard as the commercial building reference standard for state building energy codes.

In an announcement in the Oct. 19 edition of The Federal Register, DOE attributes the greater energy savings to improvements in ANSI/ASHRAE/IESNA Standard 90.1-2010, Energy Standard for Buildings Except Low-Rise Residential Buildings, related to better lighting, daylighting, controls and building envelope and better mechanical systems and application to more systems.

With the Oct. 19 ruling, Standard 90.1-2010 serves as the commercial building reference standard for state building energy codes under the federal Energy Conservation and Production Act. As a result, states are required to certify by Oct. 18, 2013, that they have updated the provisions of their commercial building code regarding energy efficiency to meet or exceed 90.1-2010.

"The foundation of energy efficient buildings continues to grow stronger with the news that DOE is now referencing the 2010 standard," Ron Jarnagin, ASHRAE president, said. "ASHRAE hopes to make that foundation even stronger through our current work with IES developing the 2013 standard."

"The DOE has determined that the quantitative analysis of the energy consumption of buildings built to Standard 90.1-2010, as compared to buildings built to Standard 90.1-2007, indicates national source energy savings of approximately 18.2 percent of commercial building consumption," according to DOE. "Additionally, DOE has determined site energy savings are estimated to be approximately 18.5 percent."

The DOE noted that the newer version of the standard contains 19 positive impacts on energy efficiency. These impacts included changes made through the public review process in which users of the standard comment and offer guidance on proposed requirements. Specifically the positive impacts include:

\* Requirements for daylighting controls under skylights and commissioning of daylighting controls; increased use of heat recovery; cool roofs in hot climates; lower illuminance in certain exterior zones; skylights and daylighting in some building types; reduced ventilation energy; supply air temperature reset for non-peak conditions; efficiency requirements for data centers; lower lighting power densities; control of exterior lighting;

occupancy sensor for many specific applications; daylighting control requirements for side-lighted spaces; and daylighting controls in more spaces.

- \* Updated chiller efficiency requirements.
- \* Extension of VAV fan control requirements.
- \* Expansion of new lighting power densities to more retrofits and automatic damper requirements and use of economizers
- \* Minimizes exceptions to switched receptacle requirement.

The ruling comes on the heels of a July announcement that established the 2007 standard as the as the commercial building reference standard for state building energy codes. The DOE noted that because the 2010 determination was published prior to the two-year deadline states have to demonstrate that their energy code meets or exceeds the stringency of the 2007 standard, states are allowed to file just one certification to address both determinations.

Since being developed in response to the energy crisis in the 1970s, Standard 90.1 now influences building designs worldwide. It has become the basis for building codes, and the standard for building design and construction throughout the United States. ASHRAE and IES publish a revised version of the standard every three years.

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## **ASHRAE and Penn State Partner on Building Efficiency Hub Oct. 26, 2011**

Philadelphia – A newly signed memorandum of understanding brings together ASHRAE and Pennsylvania State University (Penn State) to improve energy efficiency and reduce the environmental impact of buildings through the Greater Philadelphia Innovation Cluster (GPIC) for Energy-Efficient Buildings.

ASHRAE and Penn State signed the memorandum today to pursue common objectives related to GPIC. GPIC is a 24-member consortium, being led by Penn State, which has been designated as an Energy Innovation Hub of the U.S. Department of Energy and is located at the Navy Yard in Philadelphia, Pa. The goals of GPIC are to transform the building retrofit industry from serial fragmentation to integrated systems methods, to improve design tools, building systems, public policies, market incentives and workforce skills needed to achieve a 50 percent reduction of energy use in buildings, and to stimulate private investment and quality job creation in Greater Philadelphia and beyond.

“ASHRAE is looking forward to working closely with Penn State and other GPIC members on improving energy efficiency and reducing carbon emissions,” Ron Jarnagin, ASHRAE president, said. “GPIC represents an exciting step forward in finding ways to increase energy efficiency. ASHRAE is happy to bring the knowledge and technical expertise of its volunteer members to the table to help create a broader knowledge of energy efficient and sustainable building practices.”

“ASHRAE brings a tremendous amount of technical knowledge and experience that will be very useful to the GPIC as we strive toward solving one of the nation's most serious energy problems by dramatically reducing energy consumption in commercial buildings. Together, we can create quality jobs in the region and boost the building industry,” Henry Foley, executive director of the GPIC and vice president for research for Penn State, said.

ASHRAE will assist in the GPIC effort in several areas, including research, education, certification, standards and guidelines and by applying the society's Building Energy Quotient (bEQ) program to buildings at the Navy Yard. ASHRAE may also help obtain As-Designed and In-Operation bEQ ratings for buildings in Greater Philadelphia and can ensure that GPIC considers use of ASHRAE certifications to support its objectives.

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

## 2011-2012 Kansas City ASHRAE Chapter Committee Chairs

Position	Name	E-Mail Address	Phone Number
Membership Co-Chair	Reid Begnoche	<a href="mailto:reid.begnoche@siemens.com">reid.begnoche@siemens.com</a>	913-905-6765
Student Activities Chair	Susan Nagel	<a href="mailto:Susan.Nagel@crbusa.com">Susan.Nagel@crbusa.com</a>	816-891-3665
Student Activities Co-Chair	Chad Bertelsmeier	<a href="mailto:chad.bertelsmeier@siemens.com">chad.bertelsmeier@siemens.com</a>	913-905-6785
Research Promotion	Jim Van Hoecke	<a href="mailto:jvanhoecke@mcqueenysgroup.com">jvanhoecke@mcqueenysgroup.com</a>	913-620-0320
Golf Tournament	Tim Powell	<a href="mailto:powell@hughesmachinery.com">powell@hughesmachinery.com</a>	913-492-0355
Product Directory	Keith Williams	<a href="mailto:kwilliams@aesc.com">kwilliams@aesc.com</a>	913-894-4455
Chapter Seminar	Stuart Braden	<a href="mailto:sbraden@wlc-kc.net">sbraden@wlc-kc.net</a>	816-842-8437
Co-Chairs	Jim Noe	<a href="mailto:jnoe@epluses.com">jnoe@epluses.com</a>	913-915-1681
CTTC Chair	Tom Benassi	<a href="mailto:tbenassi@mmcontractors.com">tbenassi@mmcontractors.com</a>	816-877-6384
Co-Chair - TEGA	Dan Ketelle	<a href="mailto:dketelle@trane.com">dketelle@trane.com</a>	913-599-4664
Co-Chair – Refrigeration	Gene Ziegler	<a href="mailto:eziegler@parker.com">eziegler@parker.com</a>	816-361-3130
Programs Committee	Larry Staples	<a href="mailto:lstaples@kc.rr.com">lstaples@kc.rr.com</a>	
Programs Committee	Kelley Cramm	<a href="mailto:Kelley.Cramm@hei-eng.com">Kelley.Cramm@hei-eng.com</a>	913-742-5672
Programs Committee	Jim Noe	<a href="mailto:jnoe@epluses.com">jnoe@epluses.com</a>	913-915-1681
Programs Committee	Jeffrey Ewens	<a href="mailto:jeff.ewens@me-engineers.com">jeff.ewens@me-engineers.com</a>	913-304-7533
Programs Committee	Blake Ellis	<a href="mailto:bellis@burnsmcd.com">bellis@burnsmcd.com</a>	816-822-3332
Honors and Awards	Stuart Braden	<a href="mailto:Sbraden@wlc-kc.net">Sbraden@wlc-kc.net</a>	816-842-8437
Chapter Webmaster	Jim Noe	<a href="mailto:jnoe@epluses.com">jnoe@epluses.com</a>	913-915-1681
Chapter Historian	Jeff Ewens	<a href="mailto:jeff.ewens@me-engineers.com">jeff.ewens@me-engineers.com</a>	913-304-7533
Chapter Communications	Jerri Brewer	<a href="mailto:jerri.brewer@hei-eng.com">jerri.brewer@hei-eng.com</a>	913-742-5531
Newsletter Editor	Jason Funk	<a href="mailto:funk@hughesmachinery.com">funk@hughesmachinery.com</a>	913-492-0355
BEP Chair	Jim Noe	<a href="mailto:jnoe@epluses.com">jnoe@epluses.com</a>	913-915-1681
PAOE Chair	Kelly Johnson	<a href="mailto:kjohnson@heartlandhydronics.com">kjohnson@heartlandhydronics.com</a>	913-481-2281

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## 2011-2012 Kansas City ASHRAE Chapter Officers

Blake Ellis	President	<a href="mailto:bellis@burnsmcd.com">bellis@burnsmcd.com</a>	816-822-3332
Jim Van Hoecke	President Elect	<a href="mailto:jvanhoecke@mcqueenysgroup.com">jvanhoecke@mcqueenysgroup.com</a>	913-620-0320
Tom Benassi	Vice President	<a href="mailto:tbenassi@mmcontractors.com">tbenassi@mmcontractors.com</a>	816-877-6384
Jarrold Foster	Treasurer	<a href="mailto:Fosterj@USEngineering.com">Fosterj@USEngineering.com</a>	816-753-6969
Austin Allen	Secretary	<a href="mailto:Austin.Allen@hei-eng.com">Austin.Allen@hei-eng.com</a>	913-742-5608
Jim Noe	BOG	<a href="mailto:jnoe@epluses.com">jnoe@epluses.com</a>	913-915-1681
Jason Funk	BOG	<a href="mailto:funk@hughesmachinery.com">funk@hughesmachinery.com</a>	913-492-0355
Kelly Johnson	Past President	<a href="mailto:kjohnson@heartlandhydronics.com">kjohnson@heartlandhydronics.com</a>	913-481-2281

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## Chapter Events Calendar for 2011 – 2012

The following table is the Kansas City ASHRAE Chapter Meeting and Events planned for the 2011/2012 Chapter year. Additional programs, tours, and speaker ideas are welcome. Please contact Program Chair, Tom Benassi at [tbenassi@mmcontractors.com](mailto:tbenassi@mmcontractors.com). Topics, speakers, meeting times listed are subject to change or revision. Watch for updates in future newsletters and on the Chapter website: [www.kcashrae.org](http://www.kcashrae.org)

Date	Time	Event/Speaker	Subject	Special Guests	Location
Sep 12 2011	11:30 – 1:00	Ryan McAfee	UV Water Disinfection	ASPE	Holiday Inn
Sep 29 2011	5:30 - ??	4 <sup>th</sup> Annual Putt-Putt Pub Crawl		Membership Promotion	Waldo District (75 <sup>th</sup> &Wornall)
Oct 3 2011	5:30 – 7:30	Interactive Proposal Preparation	Integrated Project Delivery 101	Student Night / Mechanical Contractors Association	Holiday Inn
Nov 7 2011	11:30- 1:00	Kevin Cash	Chilled Beam Design		Holiday Inn
Dec 5 2011	11:30- 1:00	Lynn Van Winkle	Steam System Design in Hospitals	Kansas City Area Healthcare Engineers	Holiday Inn
Jan 9 2012	11:30- 1:00	Vince Wedelich	Engineering Ethics	ASPE, Membership Promotion	Holiday Inn
Feb 6 2012	5:30-7:30	Bob Feduke	Psychometri cs		Holiday Inn
Mar 5 2012	TBD	TOUR		Student Night	
Apr 2 2012	11:30- 1:00	Nick Gangemi	Data Center Design	Research Promotion	Holiday Inn
May XX 2012	TBD	36 <sup>th</sup> Annual Golf Tournament			Overland Park Golf Club