

# Tri-County SUPERHEAT



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

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<http://www.tricounty-ashrae.org/>

## MEETING INFO

**Date:** January 18, 2011  
**Location:** New York Grill  
 Ontario, CA  
**Board Meeting:** 5:00  
**Social Hour:** 6:00-7:00  
**Chapter Business:** 7:00  
**Dinner and Main Program:** 7:15  
**Cost:** \$35

We look forward to seeing you again next meeting. Please e-mail Adam at [adam.stadnik@sce.com](mailto:adam.stadnik@sce.com) to reserve your spot for the upcoming meeting. Meeting Location and directions can be found on page 2. We hope to see you all there!

## CONTENTS

**On the cover:** Meeting Location

Business Card Ads... throughout!

ASHRAE Press... throughout!

Partial Roster... pg.6

# HAPPY NEW YEAR!

2011 is upon us and we are looking forward to beginning a great new year with Tri-County ASHRAE! Be sure to look for the details on our next meeting in our next issue of Super Heat due out in January! For now, let's celebrate all of the great times that we had in 2010.

## MEETING LOCATION



## UNITED WE STAND

### NOTE:

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## CREDITS

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We hope that you will be able to make it to the first Tri-County ASHRAE meeting of the new year. New York Grill is located just outside of the Ontario Mills Mall just southwest of 4th Street and the 15 Freeway.

New York Grill  
 950 Ontario Mills Drive  
 Ontario, CA 91764



Directions from the South

1. From Interstate 15 (near the 15 and 10)
2. Exit on 4th St.
3. Turn right onto 4th St.
4. Take your first left into the Ontario Mills.
5. The New York Grill is on your left.

## ASHRAEPRESS

### Newest Version of Thermal Comfort Standard Provides New Provisions on Elevated Air Speeds

ATLANTA – New requirements regarding air speeds, analysis and documentation are included in the newly published ASHRAE thermal comfort standard, ANSI/ASHRAE Standard 55–2010, *Thermal Environmental Conditions for Human Occupancy*.

“The standard continues to focus on defining the range of indoor thermal environmental conditions acceptable to a majority of occupants, while also accommodating an ever increasing variety of design solutions intended to provide comfort and to respect today’s imperative for sustainable buildings,” Stephen Turner, of the Standard 55 Committee, said. The standard specifies the combinations of indoor thermal environmental factors and personal factors that will produce thermal environmental conditions acceptable to a majority of the occupants within the space.

Standard 55 incorporates recent research innovations such as the use of elevated air speeds to widen the acceptable range of thermal conditions. The standard previously allowed modest increases in operative temperature beyond the Predicted Mean Vote/Percentage of Persons Dissatisfied (PMV/PPD) limits as a function of air speed and turbulence intensity.

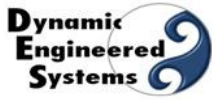
The 2010 standard also includes a new method for determining the cooling effect of air movement above 0.15 m/s (30 fpm). This allows ceiling fans, or other means to elevate airspeed, to provide comfort at higher summer temperatures than were previously permissible. New provisions based on field study research allow elevated air speed to broadly offset the need to cool the air in warm conditions, replacing requirements that originated primarily from climate chamber studies.

Another revision makes clearer the mandatory minimum requirements for analysis and documentation of a design to show that it meets the standard’s requirements. In addition, a compliance form for documentation of design is included in an informative appendix. This compliance template mirrors the United States Green Building Council’s LEED® template for the thermal comfort design credit in LEED New Construction–2009, simplifying the LEED credit template for the designer during a project.

The 2010 version of the standard also includes improved and expanded graphics that better guide users of the standard in simple applications. Improvements to the SI and IP versions of the traditional “comfort zone” chart include enlargement, clarification and notes to aid users of the standard.

Standard 55 combines Standard 55–2004 and the 10 approved and published addenda to the 2004 edition into one easy-to-use, consolidated standard.

The cost of Standard 55 is \$69 (\$59, ASHRAE members). To order, contact ASHRAE Customer Service at 1–800–527–4723 (United States and Canada) or 404–636–8400 (worldwide), fax 404–321–5478, or visit [www.ashrae.org/bookstore](http://www.ashrae.org/bookstore).



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## ASHRAEPRESS

*Act now! Save  
 50% if you apply  
 by Jan. 3rd for the  
 Feb. 2nd exam.*

### Building Energy Assessment Professional Certification

ASHRAE has developed the Building Energy Assessment Professional (BEAP) certification program in collaboration with representatives from ASHRAE's Building Energy Quotient (bEQ) program, IESNA, NIBS, SMACNA, and TABB. The purpose of this program is to certify individuals' ability to audit and analyze residential, commercial, and industrial buildings including determining project scope, collecting data, analyzing building performance, interpreting results, evaluating alternatives, submitting recommendations for energy conservation measures, and assisting with the implementation of these recommendations.

The program will launch February 2, 2011 at 9:00 am (candidates must report to the testing room at 8:30) with a pencil & paper examination in conjunction with [ASHRAE's 2011 Winter Conference and AHR Expo in Las Vegas, NV](#). Approximately eight weeks following the pencil and paper administration, the exam will be available on computer at testing centers located throughout the United States and worldwide.

The **pencil and paper administration** of the BEAP exam will be offered at a discounted rate of \$147.50 for ASHRAE members and \$207.50 for non-members.

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**THANK YOU FOR YOUR SUPPORT!!!**



## ASHRAEPRESS

### ASHRAE: Standard 189.1 Adopted as Part of Army Sustainability Policy

ATLANTA – ASHRAE leaders recently met with U.S. Army officials regarding a new sustainable design and development policy that incorporates requirements of the green building standard developed by the Society, USGBC and IES.

The U.S. Army has made it a matter of policy to promote sustainability and improve green building standards for its facilities. On Oct. 27, 2010, Katherine Hammack, assistant secretary of the Army for installations, energy and the environment (IE&E), issued a policy memorandum that incorporates ANSI/ASHRAE/USGBC/IES Standard 189.1–2009, *Standard for the Design of High-Performance, Green Buildings Except Low-Rise Residential Buildings*.

The Army’s policy sets a new approach to the design and construction of efficient military construction projects and major renovations by using Standard 189.1 as the baseline. The policy requires that facility construction projects follow specified requirements and guidance in the standard. These requirements address siting, energy efficiency, cool roofs, metering, storm water management and indoor and outdoor water consumption.

“After nearly four years of peer review and collaboration with various members of industry, we are extremely pleased that the Army has taken up the initiative to incorporate the standard into its day-to-day practices,” Lynn G. Bellenger, ASHRAE president, said. “The Army is clearly committed to taking the lead within the military to incorporate innovative practices proven by the private sector. Their willingness to adopt this standard speaks volumes about its value and efficacy.”

The net effect of the Army’s sustainable design initiative is likely to be immense. The policy

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applies to all construction and renovation of new buildings and structures in the U.S. territories, permanent overseas Active Army installations, Army Reserve Centers, Army National Guard facilities and Armed Forces Reserve Centers. The footprint of the existing Army buildings and structures worldwide covers more than 954 million square feet.

“We are committed to sustainable design and development but our commitment extends far beyond construction and renovation savings,” Hammack said. “We are on a path to integrating energy and sustainability considerations into our fundamental way of thinking as we progress toward net-zero energy, water and waste in buildings and installations.”

ASHRAE leadership and Army officials discussed how the Society could continue development and stringency of Standard 189.1 to provide guidance toward net-zero buildings. Additionally discussed were how ASHRAE can help fulfill the Army’s training needs regarding the standard and how 189.1 fits in to Army’s long-term plans to make their facilities more sustainable

Standard 189.1, published earlier this year by ASHRAE in conjunction with the Illuminating Engineering Society of North America (IES) and the U.S. Green Building Council (USGBC), provides a long-needed green building foundation for those who strive to design, build and operate green buildings.

Standard 189.1 also serves as jurisdictional compliance option to the International Green Construction Code authored by the International Code Council, ASTM International and the American Institute of Architects.



## MOREPRESS

### ASHRAE Applauds Signing of Federal Buildings Personnel Training Law of 2010

ATLANTA – Federal legislation signed into law this week will provide training for federal building personnel in the areas of building operations and maintenance, energy management, safety and design functions.

On Tuesday, Dec. 14, President Obama signed the Federal Buildings Personnel Training Act. The Act was introduced in April by Reps. Russ Carnahan (D–Mo.) and Judy Biggert (R–Ill.) and Sen. Tom Carper (D–De.) and Susan Collins (R–Me.). It was supported by more than 33 leading organizations involved in the design, construction, operation and maintenance of buildings, including ASHRAE.

The legislation will help provide federal workers with the necessary training to construct and maintain environmentally sound buildings. Federal workers will be able to be trained in a series of core competencies relating to building operations, maintenance, energy management, and safety and future performance. Workers can take courses and be able to obtain licenses and certification for their efforts.

“This law is a significant advancement for the design, construction, operation and maintenance of our nation’s federal buildings,” Lynn G. Bellenger, ASHRAE president, said. “ASHRAE applauds the federal government for demonstrating what can be accomplished in building and maintaining energy efficient buildings with excellent indoor environmental quality.”




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*American Society of Heating, Refrigerating, and Air Conditioning Engineers*

ASHRAE, founded in 1894, is an international organization of 55,000 persons. Its sole objective is to advance through research, standards writing, publishing and continuing education the arts and sciences of heating, ventilation, air conditioning and refrigeration to serve the evolving needs of the public.

