



**SPECIAL  
POINTS OF  
INTEREST:**

- ASHRAE's High-Performance Building Design Professional Certification
- Inspection, Maintenance Requirements Outlined in New ASHRAE/ACCA Standard
- New Ventilation Design Requirements for Health Care Facilities Available from ASHRAE

## President's Message Sol Chavez, PE

It is my distinct pleasure to fill in and serve as the president the Pikes Peak ASHRAE Chapter for the 2008-2009 season. I had managed to avoid this privilege for 24 years.

The Chapter Regional Conference was held in Denver this year and was attended by Ron Matthews, our new VP, Coy Brandenburg, our chapter and Regional ECC Chair, Jean Phillips, our new treasurer, Roy Neese our

Historian, and Jim Cain, Regional RP Chair. The chapter received the star award, premier chapter award, and Research/Promotion chapter Investor Award. Roy Neese received special recognition with a Chapter Service Award.

We are looking forward to an excellent series of programs put together by Elaine Gutierrez assisted by Neil Case. Read up on this month's program below.

Future programs include presentations from or on: the Regional Building Department, Effective Technical Writing, and LEED.

Our luncheon prices have been reduced from \$20 to \$17, and if you buy an annual ticket they are \$96 for all eight meetings. Sign up now aon line.

We still have two positions for which we are seeking volunteers, those being secretary and newsletter editor.

## This Month's Meeting

Thursday, September 28

11:30 AM at the Warehouse Restaurant — 25 West Cimarron

### **ASHRAE 55 –Past, Present and Future of the Standard**

Without the need for thermal comfort, buildings could use far less energy. ASHRAE Standard 55, Thermal Environmental Conditions for Human Occupancy, specifies conditions in which a specified fraction of the occupants will find the environment thermally acceptable. This presentation will cover the Standard's scope, general requirements, and address the six primary thermal comfort variables. The Optional Method for Determining Acceptable Thermal Conditions in Naturally Conditioned Spaces will be addressed, as it stands now and how it will likely look in the future. Future direction of the rest of the standard will also be discussed.

**Our presenter, Brian Lynch**, is the Secretary for the ASHRAE committee for Standard 55 and an active member of several other ASHRAE committees relating to Thermal Comfort and Sustainability. He has earned the ASHRAE High-Performance Building Design Professional certification and is a LEED Accredited Professional. Brian has a degree in Mechanical Engineering from Colorado State University and 9 years of experience with mechanical equipment and system sales. He is a past president of the Rocky Mountain chapter of ASHRAE and an Engineering Sales manager for Big Ass Fans.



**“Position your firm as a unique provider of High-Performance Building Design services... Be one of the first to earn ASHRAE’s HBDP certification. er of High-Performance Building Design services... Be one of the first to earn ASHRAE’s HBDP certification.”**

## **ASHRAE's High-Performance Building Design Professional Certification**

ASHRAE’s High-Performance Building Design Professional (HBDP) certification program uses computer-based examinations to identify individuals who have mastered a body of knowledge covering innovative technologies for energy-efficient, environmentally friendly, and sustainable designs for new and existing buildings.

Developed with input from the U.S. Green Building Council, Green Building Initiative, Mechanical Contractor Association of America, and Illuminating Engineering Society of North America, ASHRAE’s HBDP certification pro-

motes increased understanding and knowledge of how HVAC&R design is integrated into high performance buildings to achieve a sustainable design.

Position your firm as a unique provider of High-Performance Building Design services... Be one of the first to earn ASHRAE’s HBDP certification.

To earn the certification, download and complete the HBDP application form and read the HBDP Candidate Guidebook. The guidebook contains important information about eligibility requirements and available resources to help prepare for the exam.

Individuals who successfully complete the exam may use the HBDP certification as part of their professional credentials and their names and company affiliations are listed on the ASHRAE website. Give your firm the competitive edge it needs to succeed in today’s “Green Building” marketplace.

**To apply, visit [www.ashrae.org/hbdp](http://www.ashrae.org/hbdp) or call 1-800-527-4723**

**Fee: \$395  
ASHRAE Members: \$275**

## **Luncheon Meal Prices Reduced!**

**PURCHASE ANNUAL LUNCHEON TICKET AND SAVE!**

**8 Luncheons at \$12.00 each = \$96.00 per year!  
and save \$40.00!**

**At-the-door price = \$17.00**

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## Inspection, Maintenance Requirements Outlined in New ASHRAE/ACCA Standard

ATLANTA – Maintain to sustain is the name of the game when it comes to saving energy and money in today's building stock.

A new standard from ASHRAE and the Air Conditioning Contractors of America (ACCA) will help ensure a consistent minimal level of HVAC&R maintenance and inspection to preserve a system's ability to achieve acceptable thermal comfort, energy efficiency, and indoor air quality in commercial buildings.

ANSI/ASHRAE/ACCA Standard 180-2008, *Standard Practice for Inspection and Maintenance of Commercial Building HVAC Systems*, is the first standard to address in-

spection and maintenance of HVAC systems. Robert Baker, chair of the committee that wrote the standard, noted that inconsistencies exist within the building industry when it comes to inspection and maintenance of HVAC systems, with some facilities following rigorous policies while others have adopted a run-to-failure approach.

"Consistent maintenance ensures that energy efficiency remains at design levels," Baker said. "Where maintenance is neglected, energy costs rise significantly and equipment life drops dramatically. With HVAC&R systems responsible for about 60 percent of site

electrical energy use, it's imperative that we provide consistent maintenance and inspection to improve energy efficiency along with thermal comfort and indoor air quality. When systems are not maintained, indoor air quality, occupant comfort and energy efficiency all suffer."

In addition, much of the information that will be required to prepare the maintenance program can be obtained from building commissioning documents, which provides a basis for identifying failures.

The cost of ANSI/ASHRAE/ACCA Standard 180-2008, *Standard Practice for Inspection and*

*Maintenance of Commercial Building HVAC Systems*, is \$31 (\$25, 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 at [www.ashrae.org/bookstore](http://www.ashrae.org/bookstore).

**"Where maintenance is neglected, energy costs rise significantly and equipment life drops dramatically."**

## New Ventilation Design Requirements for Health Care Facilities Available from ASHRAE

ATLANTA – Just like the right dose of medicine can improve health, proper ventilation is an integral part of patients' well-being in health care facilities.

Requirements to ensure high-quality ventilation can be found in a new standard written by ASHRAE and the American Society for Healthcare Engineering (ASHE). ANSI/ASHRAE/ASHE Standard 170-2008, *Ventilation of Health Care Facilities*, defines ventilation system design requirements that provide environmental control for comfort, as well as infection and odor control.

The standard is the

first ANSI standard in the nation to specifically address ventilation in health care facilities and is available for adoption by various authorities for health care facility construction such as city, state and federal governments and by private national organizations such as the Facilities Guidelines Institute and the Joint Commission on the Accreditation of Healthcare Organizations (JCAHO).

Without high-quality ventilation in health care facilities, patients, health care workers and visitors can become infected by simply breathing.

"Air-transmitted

pathogens can be found everywhere in poorly ventilated health care facilities," Richard Hermans, P.E., ASHRAE certified healthcare facility design professional (HFDP), chair of the committee that wrote the standard, said. "Because these organisms are found in higher concentrations in hospitals and because patients are susceptible to them, additional care should be taken in the design of ventilation systems."

The standard addresses systems and equipment; space ventilation for a variety of areas in health care facilities, including airborne infection isolation rooms,

critical care units, burn units, surgery rooms, and Class B and C operating rooms; and planning, construction and system startup.

The cost of ASHRAE/ASHE Standard 170, *Ventilation of Health Care Facilities*, is \$54 (\$43, ASHRAE members).

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