



Notes from thin air....

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PIKES PEAK CHAPTER ASHRAE NEWSLETTER

<http://www.pikespeakashrae.net/>

PRESIDENT'S MESSAGE

By Gary Leffingwell

As predictable as our weekly snowstorm this year, it's time for our monthly newsletter and lunch meeting. So I am sitting here early on a Sunday, watching the snow accumulate and thinking about what to write. Having grown up in Alaska, this weather is not unusual to me and talking with people who grew up in Colorado, this is typical Colorado winter weather. I guess we have been spoiled with the drought and warmer winters the past few years. While it's cold out, there is an interesting HVAC experiment you can perform. The next time you're in a mixing plenum, of a high outside air volume unit, measure the air temperatures from the top to bottom of the filter bank. The mixing plenum should be at least six feet high. You should see a large temperature gradient from the top to the bottom, illustrating the effect of air density and cold temperatures.

Fortunately, we have Brian Lynch, from Big Ass Fans, coming to speak at this month's lunch meeting. Brian will discuss using air movement to improve indoor comfort and assist with destratification in heating systems. Maybe we should meet at a mixing plenum and get some field trip credits. I look forward to seeing Brian's presentation and hope all of you can join us this month.

Also this month the Chapter has arranged a field trip to the Whole Foods Market refrigerated warehouse in Denver. The trip takes place January 25, 2007. We will meet at 9 am at the parking lot near Briargate and Hwy 83 to vanpool to Denver. After the site visit, we will have lunch at a local restaurant and return home. This should be an interesting trip, as most of us don't get to see large refrigeration systems.

The next couple of months will be busy for the Chapter. Our annual technical seminar will occur in April this year. Due to scheduling conflicts with the speaker, we have moved the event from its traditional February date to April. More information will be provided to you as details are confirmed. Also this spring is our annual spring golf tournament. Look forward to more details as the event approaches.

Last month we had our Chapter's annual Christmas party and about 30 people attended. I want to thank everyone that helped organize, plan and set up for this event.

Thanks again to all of the volunteers that make this Chapter run smoothly. I look forward to seeing all of you at this month's meeting.

LUNCH MEETINGS

Next Meeting is:
Thursday – January 18, 2007

Giuseppe's Old Depot Restaurant
10 S. Sierra Madre Downtown
11:30 a.m. – 1:00 p.m.

Cost: \$18 advance/on-line, \$20 at door

<http://www.pikespeakashrae.net/store/index2.htm>

Program: Air movement to improve indoor comfort

Guest Speaker: Bryan Lynch

Please RSVP to: Neil Case - Programs@pikespeakashrae.net

In addition, Henry Yankowski with Regional Building Department will stop by to share with us an update of what is going on at the building department.

ASHRAE NEWS

Indoor Environmental Design Focus of ASHRAE Satellite Broadcast

ATLANTA - Specific solutions to the everyday challenges of achieving indoor environmental quality within real-world budget constraints will be presented by ASHRAE in an upcoming satellite broadcast/Webcast.

Indoor Environmental Design: Practical Solutions to Everyday Problems, sponsored by ASHRAE's Chapter Technology Transfer Committee, will take place from 1-4 p.m. EDT, April 18.

"This program will benefit designers, building owners, architects, contractors and facility managers who are faced with the daily engineering challenge of specifying systems that maximize IAQ, thermal comfort and noise control," said Bill Williams, chair of the broadcast committee. "Viewers will be given guidance on how to provide ventilation air that helps protect buildings instead of increasing mold risk, how to avoid the three most common mistakes in ventilation system design and operation, and how to provide comprehensive filtration without breaking their budget."

Bill Coad, P.E., president of Coad Engineering Enterprises, St. Louis, Mo., and past ASHRAE president, will present an overview perspective on indoor environmental quality and introduce the following panel of experts:

- Hoy Bohanon Jr., P.E., owner and consultant, Bohanon Engineering Winston-Salem, N.C., "Ventilation System Design: Avoiding Three Common Mistakes."

- Lew Harriman, director of research, Mason-Grant, Portsmouth, N.H., "Ventilation Air: First, Do No Harm."
- Dan Int-Hout, chief engineer, Krueger-HVAC, Richardson, Texas, "Noise, IAQ and Thermal Comfort – Can You Have It All?"
- Chris Muller, technical director, Purafil, Doraville, Ga., "Behind the Access Door – Advances in Affordable Filtration for IAQ."

Online registration opens March 1 for satellite broadcast site coordinators and Webcast participants at www.ashrae.org/IEDbroadcast. Registration for satellite downlink viewers begins March 15. There is no fee for registration.



ASHRAE Receives Recognition for Sustainability Efforts

ATLANTA – ASHRAE has been recognized by the Sustainable Buildings Industry Council for the Society's educational efforts related to sustainability.

Last week, ASHRAE received a Best Sustainable Practice Award in the Educational Initiatives category, which recognizes the best products, processes, educational tools and outreach initiatives.

The award centered on the presidential challenge made by Terry Townsend of ASHRAE's promise for a sustainable future. To fulfill that challenge, ASHRAE is using its expertise and tools to provide cost-effective solutions in designing, operating and maintaining energy efficiency and sustainable buildings.

"The sustainability initiative is stimulating conversation inside ASHRAE about what it means to be sustainable and the importance of protecting today's natural resources for future generations," Townsend said. "We are pleased to be recognized by the Sustainable Buildings Industry Council (SBIC) for our efforts."

The Awards program was established in 2001.

"The Best Sustainable Practice category recognizes the excellent innovations and unique contributions SBIC members are making toward building a sustainable future in America," Douglas K. Schroeder, associate director of SBIC, said. "This year's competition was exceptionally competitive, but for the second consecutive year, the SBIC jury recognized the valuable contributions ASHRAE is making to the buildings industry."

Realizing that sustainability cannot be accomplished without measurable goals, ASHRAE has put in place some 35 specific challenges, ranging from a proposed water conservation standard, development of building performance metrics, research and design guidance resulting in net zero energy use buildings and greening of ASHRAE meetings.

To generate excitement and increase member awareness, ASHRAE created a three-part DVD, featuring a video of Townsend fishing with his grandchildren illustrating the importance of sustainability, Townsend's recorded presidential speech, and a short video highlighting why ASHRAE is taking on this challenge.

The DVD is part of a total communications package from ASHRAE to inspire members and the industry about the challenges and opportunities related to sustainability.

Other aspects include a promotional slide chart explaining the benefits of sustainable design measures, a Website, www.engineeringforsustainability.org, featuring sustainability guidance from ASHRAE; creation of a page on ASHRAE.org, www.ashrae.org/building, focusing on ASHRAE's planned renovation of its Headquarters building as sustainable; and use of ASHRAE publications and other outreach vehicles to spread the word about the Society's work.

The award is the second for ASHRAE from SBIC. Last year, the Advanced Energy Design Guide for Small

Office Buildings published by ASHRAE and the ASHRAE Journal supplement, "Building for the Future," were recognized with honorable mention in the educational initiatives category.

IAQ 2007 Conference to Discuss Sustainable Buildings

ATLANTA – Healthy and sustainable buildings are the talk of the building industry, but what exactly defines what a healthy building is?

ASHRAE will discuss this and other topics at its IAQ 2007: Healthy and Sustainable Buildings conference in Baltimore Oct. 15-17.

IAQ 2007 addresses what tools and metrics can be used to quantify buildings' health and sustainability and how indoor air quality can be certified as sustainable. Plenary session speakers will compare the functionality of rating systems, how they can be improved and what information other than the ratings can developers, designers and public entities use to distinguish high-performing buildings.

Kevin Hydes, P.Eng., P.E., chair of the Board of Directors of the U.S. Green Building Council, will address the Council's Leadership in Energy and Environmental Design building rating system and case studies. Nils Larsson, executive director of the International Initiative for a Sustainable Built Environment, will cover the same questions for other rating systems, labels and green building/IAQ metric tools.

"Buildings' health and efficiency impact everyone," said Larry Schoen, chair of the committee organizing the conference. "It's important to discuss how our designs as building professionals will affect the occupants' lives and the global community for many years to come. This conference helps attendees learn how we can work together to maximize sustainability."

The conference is open to anyone with a stake in the built environment or with an interest in indoor air quality, including researchers, policy makers, owners, designers, builders, building operators and remediation experts.

To submit an abstract to be a speaker at the conference, visit www.iaq2007.org. The submission deadline has been extended to Jan. 15, 2007.

STORY OF THE MONTH

Golden Gophers Want a LEED Certified Stadium, At Any Cost

Rising construction costs won't stop the University of Minnesota from trying to make its new on-campus football stadium the first project of its kind to achieve certification as an ecologically friendly building. In fact, the university cited the school's commitment to sustainability as one of several contributing factors to TCF Stadium's new anticipated cost of \$288 million, up from the original estimate of \$248 million. Other factors include inflation, building code changes, a need for additional site work due to challenging soil conditions, and a desire for wider concourses and more spacious seating areas, according to the university. Kathleen O'Brien, the university's vice president for student services, said at last week's unveiling of stadium drawings that the university has some of the nation's "foremost faculty" in environmental leadership and is committed to sustainable design.

Full Story: <http://www.bdcnetwork.com/index.asp?layout=articleXml&xmlId=555805923&nid=2073>

CHAPTER HISTORY

We enter our twenty first year as the 147th chartered member of the **American Society of Heating, Refrigerating and Air - Conditioning Engineers**. I will have available at each lunch meeting a binder for the Chapter History, and for the Chapter Regional Conference held in Colorado Springs, August 12-14, 1993. The binders include correspondence, reports, documents, and photos from these two events. Please take a look and pass them around.

Check out the Chapter History binder and see who was instrumental in the formation of our organization. The steering committee in charge of forming this Chapter was Sol Chavez, Matt Ernst, Paul Pfau, Duane Merrit, Bill Harmon, Mark Abrahamson, Stacey Hieb, Mike Scofield, and Glenn Warner. Three of the nine are present members.

Check out the CRC held in Colorado Springs in 1993. Sol Chavez and Royce Henderson were the Co-chairs and introduced some new things to the annual Region IV CRC. The Friday night banquet with the murder mystery theater was a first, and has set the bar for the annual banquet entertainment since. Review of this binder will give you some idea of the planning and effort it will take to pull off the 2007 CRC. Please get involved.

Chapter Historian
Roy Neese

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