



Notes from thin air....

May 2007

Volume 9 Issue 7

PIKES PEAK CHAPTER ASHRAE NEWSLETTER

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

PRESIDENT'S MESSAGE

By Gary Leffingwell

This is my last message to the membership before Bethany take the Chapter reins and I would like to thank everyone that helped with the Chapter operations during the past year.

Last month the Chapter sponsored a satellite broadcast about Indoor Environmental Quality, which was informative and educational. Unfortunately, only two people attended, but Neil obtained the speakers' notes and they should be posted on the Chapter website. The annual Technical seminar also took place last month and the speaker, Julian DeBuliet, presented useful information about chiller plants, LEED and refrigerants. Julian also spoke at the April lunch meeting and discussed LEED and ASHRAE 90.1. I would like to thank Julian for traveling to Colorado Springs to speak to the Chapter and to Neil Case for arranging the presentations and organizing the events.

As was mentioned during the past two lunch meetings, the Chapter is sponsoring a technical award competition this year. Entries are due at the end of the may lunch meeting and to date there is one entry. One thing I have learned by being in business is to not be shy about the things you have accomplished. If you have an interesting project, fill out an application and submit it to the Technical Award Committee for review. Neil Case will be heading the committee and Ted Schendt, Gene Martin, Jean Phillips and Roger Lemon will be assisting with the judging of the entries.

This month's lunch speaker will be Mark Labac and he will be discussing optimizing ventilation for energy efficiency and enhanced indoor environmental quality. This will be the last lunch meeting of the year, so plan on attending and see some of your professional colleges for the last time until Fall.

This year I have emphasized the need to RSVP for the lunch meetings in order to get an accurate head count and plan the appropriate number of lunches. Some of you may know that the Chapter has an optional annual lunch plan, where you can pay for all of your lunches at once. There is a reduced cost for purchasing all of the lunches at once and it allows the Chapter to get an approximate number of attendees. I have seen many of you at every lunch meeting and you could save by purchasing the annul lunches. Annual lunches can be purchased on the Chapter's website.

To date, the Chapter has not received any applications for the scholarship. If you know a college student attending classing in the HVAC field that needs some money, have them apply. Applications can be found on the Chapter website.

Thanks again to all of the people who volunteer to make the Chapter operate and who have helped me during the past year. I look forward to seeing all of you at this month's lunch meeting. If I don't see you at the meeting, have a great summer and I will see you next Fall.

LUNCH MEETINGS

Next Meeting is:
Thursday – May 17, 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: Optimizing Ventilation for Energy Efficiency and Enhanced Indoor Environmental Quality in Today's Smart Buildings while contributing to LEED.

Guest Speaker: Kevin Caskey

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

PRESENTATION OVERVIEW

“Over 50% of all buildings are over ventilated” – ASHRAE

“70% of economizers don't work” – New Buildings Institute

“Less than 5% of buildings are commissioned” –ASHRAE

With soaring energy prices, increasing LEED and 'green building' construction, and a new focus on indoor environmental quality, building engineers and owners are looking for new ways to achieve maximum building efficiency. Ventilation control and energy savings are key and critical issues.

Traditional monitoring and control technologies have proven inadequate in meeting the challenge of high performance buildings due to cost, complexity, sensor inaccuracies, differential measurement error stacking, calibration and maintenance issues, and the problem of delivering actionable information (vs. just data).

New technology exists that solves these problems and provides the ability to achieve highly effective demand controlled ventilation as ASHRAE describes, true differential enthalpy economizer control that REALLY WORKS, and other ventilation related applications that are needed for maximum building efficiency with the lowest energy costs.

This presentation will discuss the new technology and show how to make critical applications work to benefit any building that uses outside air.

SPEAKER BIO

Kevin Caskey is VP of System Sales at Aircuity. With a BS Degree in Mathematics from the University of Washington, he has nearly 20 years of sales and marketing experience in the HVAC industry. Kevin is the former vice president and general manager of Novar Controls Corporation headquartered in Redmond, Washington. Under his management, company sales grew 32% despite operating in a flat market. Prior to Novar, Caskey was director of sales and marketing for Alerton Technologies, Inc, a Seattle-based building automation systems manufacturer. Caskey also held positions of increasing sales management responsibility during an eight year career at Phoenix Controls Corporation, ultimately serving as the European regional manager, responsible for evaluating the European market opportunity and building an independent rep channel.

ASHRAE NEWS

Natural and Mechanical Ventilation in Schools Discussed in Seminar

ATLANTA - When it comes to ensuring safe, comfortable environments for students, which earns a higher grade – natural or mechanical ventilation?

The pros and cons of natural ventilation are examined in a seminar, Natural Ventilation in Schools: Boon or Bust?, from 8-9:30 a.m. Sunday, June 24, at ASHRAE's '07 Annual Meeting, June 23-27, Long Beach.

“Natural ventilation in schools is used to lower cooling and ventilation costs,” said seminar chair Chris Muller, Purafil, Doraville, Ga. “However, uncontrolled ventilation can allow contaminants to bypass filters and permit the introduction of excess moisture. Given the number of schools located in non-attainment areas for one or more of the U.S. Environmental Protection Agency’s priority pollutants, natural ventilation can present increased health risks to a large segment of the student population.”

The seminar looks at ventilation in schools from the standpoint of outdoor air quality, covers air cleaning requirements of ASHRAE Standard 62.1 and presents a case study.

“Although you may expect to pay more for the operation of mechanical HVAC systems vs. natural ventilation, ASHRAE Standard 62.1 provides design options that reduce operating costs while still providing for acceptable indoor air quality,” said Brad Stanley, Purafil, Doraville, Ga. His presentation

is titled, Mechanical vs. Natural Ventilation in Schools: Less Can be More.

Jerry Lamping with the North East Independent School District in San Antonio, Texas, shares how the district uses only natural and mechanical ventilation with no air conditioning in gyms and locker rooms. Voters will soon decide whether to convert these areas to full mechanical air-conditioned spaces.

Michael G. Apte, Ph.D., Lawrence Berkeley National Laboratory, Berkeley, Calif., talks about Ventilation Considerations in Areas with Elevated Ozone Levels.

“As we get more information on reactions by oxidants to organic compounds and their by-products, the rationale to control ozone entry into buildings and to select materials less prone to ozone reactions becomes stronger,” he said.

For more information on the meeting, June 23-27, Long Beach, visit www.ashrae.org/longbeach.



Purdue Professor Chosen for First ASHRAE D.C. Fellowship

ATLANTA – An associate professor from Purdue University has been selected for ASHRAE’s first Washington, D.C., Federal fellowship.

“I am eager to learn about how energy policies and research strategies are formulated at the federal level,” William “Bill” Hutzel, P.E., who works in Purdue’s College of Technology, Department of Mechanical Engineering Technology, said. “I hope to play a small role in advocating for sustainable design practices in buildings. I am proud to be representing ASHRAE because it is the professional society ideally suited for leadership on this important topic.”

The one-year fellowship allows participants to work in the federal government in a technical advisory role. This year’s Fellow will be placed on Capitol Hill, most likely in the Science Committee staff office.

At Purdue, Hutzel teaches undergraduate courses in thermodynamics, controls, fluid mechanics and HVAC. He has developed a modern laboratory to teaching graduate-level facilities engineering courses and conducting applied research. Recent projects have designed an air flow testing laboratory for heat

recovery equipment, used Web-enabled building controls for remotely accessible laboratory experiments, and evaluated the performance of evacuated tube heat pipe solar collectors.

He serves as co-faculty advisor for the ASHRAE Purdue Student Branch.

The fellowship is designed to educate participants on the inner workings of federal policy-making, to provide scientific guidance and analysis to decision-makers, and to increase the visibility and involvement of scientists and engineers in the public policy arena. The fellowship runs from September through August and typically begins after a two-week orientation sponsored by the American Association for the Advancement of Science.

ASHRAE members interested in applying for the 2008 Fellowship can contact Doug Read, ASHRAE program director of government affairs, at e-mail dread@ashrae.org.

ASHRAE, founded in 1894, is an international organization of 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.

ENERGY STORY OF THE MONTH

USGBC changes energy performance LEED requirement, requires 2 credits

Under a recently announced change to its Leadership in Energy and Environmental Design (LEED) green building rating system, the U.S. Green Building Council has proposed that projects be required to achieve two Optimize Energy Performance points for certification. The two-point requirement will go into effect for all LEED projects, pending full membership approval, June 26.

Full Story: <http://www.bdcnetwork.com/article/CA6442074.html?nid=2073>

REMEMBER THE GOLF TOURNAMENT IS MAY 18!!!!

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