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(BETTER LATENT THAN NEVER)

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Ozarks ASHRAE

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**The Latent News is a
monthly newsletter
produced by the
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If you have information
you would like to include
in the next ASHRAE
Latent News, please
have it to the editor no
later than the first
Tuesday of the month.

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About our Speaker

"Sound Control and Duct Design"

The April ASHRAE general meeting will be held Tuesday, April 20th at 11:30pm at the Springfield Brewing Company, 301 S Market Ave. Meal cost is \$12, payable at the door and first-time attendees are free.

Our speaker for the meeting will be Gerard Iacouzze, Technical Service Engineer – Northern/Southern/Western Areas for McGill Airflow LLC in Bowie, Maryland where he provides application engineering services to engineers, contractors, building owners, specification writers and government engineers.

Mr. Iacouzze will be cover basic sound fundamentals and terms along with duct system acoustics. Acoustical products, such as silencers will be covered as well as acoustical calculations and consideration for specifications and installation.



Mr. Iacouzze holds a degree in mechanical engineering from West Virginia University and has studied computer applications and HVAC equipment. He has authored and co-authored 12 manuals, standards and duct construction documents and has served on the ASHRAE Duct Design Committee TC5.2 and Central Forced Air Heating and Cooling Systems Committee TC6.3.

Don't Forget - ASHRAE Commissioning Webcast



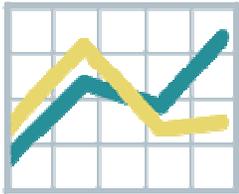
On Wednesday, April 21, 2010, ASHRAE's Chapter Technology Transfer Committee (CTTC), with support from ASHRAE's High Performance Buildings Magazine, will present a webcast entitled **"Right from the Start – Commissioning for High Performance Buildings."** The broadcast will take place from noon-3pm, central time.

Three (3) PDH credits are available to those who view the program and then complete the Participant Reaction Form online by April 30, 2010.

There is no fee for registration. Online registration began March 2, 2010 at <http://www.ashrae.org/Cxwebcast>.

Information will be presented by a panel of experts in the field, including Rick Casault, H. Jay Enck and Ronald Wilkinson and moderated by Don Rheem. For additional information, visit <http://www.ashrae.org/education/page/557>

Engineer Shortage Likely to Coincide with Increase in Demand



SAN DIEGO - The United States reportedly is facing a workforce and education challenge in electrical power engineering. A recent commentary by Adib Nasle, CEO of Green Age Group, cites an IEEE study that found 45% of engineers in electric utilities will be retirement eligible or leave engineering for other reasons over the next five years.

Also, about 40% of power engineering faculty will be eligible for retirement in the next five years, with about 27% anticipated to actually retire. This workforce trend comes as electricity demand in the United States is expected to increase 40% over that time frame, according to the U.S. Department of Energy.

The related article is available online at: <http://www.nasle.com/?p=118>

Papers Focused on Net-Zero-Energy Sought for ASHRAE 2011 Winter Conference

ATLANTA – Papers addressing the industry's efforts to achieve zero-energy design are being sought for ASHRAE's 2011 Winter Conference in Las Vegas, Nev.

The deadline for paper submissions is April 16. For complete information on the submittal requirements, visit www.ashrae.org/lasvegas.

The 2011 Winter Conference takes place Jan. 29-Feb. 2, along with the ASHRAE co-sponsored AHR Expo, held Jan. 31-Feb. 2. The technical program focuses on efficient use of energy, different design approaches and other topics related to refrigeration, standards and codes, and HVAC systems, equipment, applications and fundamentals.

Topics covered include codes and standards in the HVAC&R industry, integrated design, low-energy design,

refrigeration update, industrial HVAC&R, net-zero energy, HVAC systems and equipment and HVAC fundamentals and applications. Full-length technical papers or conference paper abstracts (400 words or less) should be submitted by April 16.

For more information about the two types of papers and to submit a full-length technical paper or conference paper abstract, go to the ASHRAE Las Vegas Conference Web site: www.ashrae.org/lasvegas.

The conference is expected to attract some 2500 attendees from 60 countries. The technical program takes place Sunday, Jan. 30–Wednesday, Feb. 2, and includes paper presentations as well as non-paper presentations. Approved papers are published in ASHRAE Transactions.



Albuquerque, New Mexico  June 26-30, 2010

From the soaring Sandia Mountains to peacefully floating hot air balloons, at almost 5,000 feet above sea level, Albuquerque, N.M. is a city of great heights. Since ASHRAE is always striving to reach the highest levels of energy efficiency and sustainability, Albuquerque, N.M. will serve as the site for the 2010 ASHRAE Annual Conference.

Raising Efficiency to New Levels serves as the Conference theme and echoes ASHRAE's mission, Gordon Holness, ASHRAE president, said. As leaders in the industry, ASHRAE should continually strive to set high standards for energy efficiency and sustainability. Not only that, but ASHRAE also must lead by example by achieving and exceeding those standards to the highest level.

With a focus on energy efficiency system design for high elevations and dry climates, this year's technical program features more market-based papers and programs than in previous technology-driven ASHRAE conferences.

The conference will begin Saturday, June 26 and technical programs begin Sunday, June 27, and continue through Wednesday, June 30, with all sessions held at the Albuquerque Convention Center. The Hyatt Regency Albuquerque will serve as the headquarters hotel. Complete program details and registration forms are available at www.ashrae.org/newmexico.



Upcoming Events

Mark your calendars for these dates:

- ASHRAE Commissioning Webcast – April 21, 2010, noon-3pm
- General Meeting – April 20, 2010 – Sound Control and Duct Design by Gerry Iacouzze
- General Meeting – May 18, 2010 – Tour of new Southwest 2 Power Plant
- ASHRAE Region IX CRC – August 12-15, 2010 – mark your calendars, more information to come.

Trivia Tidbit

Here's a bit of trivia to keep your brain cells active:

Two US presidents had engineering training:

Herbert Hoover, the United States' 31st President, studied mining engineering at Stanford University, graduating in 1895. Jimmy Carter, the 39th U.S. President, attended Georgia Tech and the United States Naval Academy, from which he graduated in 1946. Carter served in the Navy for 10 years as an engineer working with nuclear-powered submarines.

ASHRAE Research: Laboratory Test of Five Non-Chemical Devices Used in Cooling Towers Showed No Effectiveness in Preventing Biological Growth

ATLANTA New research supported by ASHRAE indicates that non-chemical devices (NCD) marketed to control the growth of biological agents, such as Legionella in cooling towers, may not materially reduce biological growth.

Research project No. 1361, *Biological Control in Cooling Towers Using Non-Chemical Water Treatment Devices*, a two-year project recently completed by Dr. Radisav Vidic at the University of Pittsburgh, evaluated five non-chemical devices using different technologies to control biological activity in a model cooling-tower system. The devices studied included a hydrodynamic cavitation device, pulsed and static electric field devices, an ultrasonic device and a magnetic device.

In Dr. Vidic's research, none of the non-chemical devices measurably reduced planktonic or sessile microbial populations in comparison to no-treatment tests and to a conventional chemical microbial control treatment protocol. The findings appear to be inconsistent with previous research by non-chemical device manufacturers and some independent researchers on some

of the same devices tested in the ASHRAE study. Those other studies reported measurable degrees of biological control within the parameters of testing conducted.

These results suggest that equipment operators, building owners and engineers should consider taking more frequent water sample tests for their systems that rely on NCDs for biological control. If the testing shows an issue, one possible measure is to add chemical treatment capability to their system to prevent a potential health hazard from developing until additional research and field testing can resolve this question, according to Dr. Vidic.

The study results are still subject to final approval by the sponsoring technical committee, TC 3.6 Water Treatment. ASHRAE anticipates formal approval and the release of the final report for this project at its 2010 Annual Meeting Conference in June. For notice of when the report is available, please contact Mike Vaughn, Manager of Research and Technical Services, at mvaughn@ashrae.org.

ASHRAE Vision

ASHRAE will be the global leader, the foremost source of technical and educational information, and the primary provider of opportunity for professional growth in the arts and sciences of heating, ventilating, air conditioning and refrigerating.

ASHRAE Core Values

Advancement

We are committed to the advancement of the arts and sciences or HVAC & R for the benefit of society through research, technology development and transfer, and education and training.

Leadership

We are committed to providing leadership within our industry and developing leadership qualities in our members.