

ASHRAE

AMERICAN SOCIETY OF HEATING, REFRIGERATING, AND AIR CONDITIONING ENGINEERS

February 12, 2007

January Meeting Recap

Last month's meeting featured Dr. Jerry Hall, a professor of Civil Engineering at the University of New Mexico. Dr. Hall provided an interesting introduction to some concepts of engineering ethics. Several examples including the shuttle Challenger disaster, Tacoma Narrows Bridge collapse, and the Hyatt Regency structural failure were examined for the ethical dilemmas presented in each. A background into the basis of ethics was also presented as well as the ASHRAE Code of Ethics.

February Meeting Info: IBC Seismic Requirements

James Domholt will be our guest speaker, James is the Sales Manager for ClimateCraft, Inc., a manufacturer of custom air handling equipment. A Graduate Mechanical Engineer from the University of MN, he has over 30 years industry experience in commercial/industrial HVAC. James is also a Past President Minnesota Chapter of ASHRAE, past member of ARI Unitary Regulatory Committee, ARI Code Compliance Committee and other industry committees

In an effort to develop a set of uniform codes for the United States, the International Code Council developed a suite of 14 model codes. These codes include the International Building Code, the International Mechanical Code, the International Plumbing Code and so forth. For Mechanical Design Professionals, the impact of the International Building Code (IBC) on their work is likely the least understood. First published in 2000, the IBC has been reprinted in a 2003 and a 2006 version. At this time, 48 states plus Washington, DC, the Department of Defense, the Department of State and other jurisdictions have adopted one of these three versions into statute.

Included within the IBC (the building structural code) are requirements for mechanical and electrical equipment serving as life safety components, or that are necessary for a critical facility to maintain its intended function, remain online and functional after an earthquake (seismic event). This seminar will present the design professional with a basic understanding of how to determine when seismic design requirements are needed, how the required compliance severity is determined, and what requirements they must in turn expect from the mechanical/electrical equipment supplier. The design professional is then encouraged to investigate in more detail through the use of industry publications such as the IBC (2000/2003/2006) and the ASCE 7.

PRESIDENT'S MESSAGE

The Value We Bring

Let's not forget the value we bring. Air conditioning, as we know it has been around for just about 100 years. In that time it has come to be expected by many. Today we find the benefits of air conditioning to be much more than personal comfort - it is necessary for good medical/health service, in manufacturing, for preserving our food supply and improving productivity in the workplace.

The first building recognized for using modern air conditioning was the New York Stock Exchange in 1902. That same year the Armour Building in Kansas City, Missouri, became the first office building to install air-conditioning. In 1906 the Boston Floating Hospital became the first air-conditioned hospital. By 1939 Packard Motor Car Company offered an automobile with air conditioning and by 1969 more than half of all new automobiles were equipped with air conditioning. The application of air conditioning allowed for explosive growth in the South and in hot climates like Houston, Phoenix & Las Vegas. It was because of the value that air conditioning brought to the table that it was quickly adopted for many of the aspects of our life.

The Building Owners and Managers Association (BOMA) periodically performs surveys for the top ten tenant

Presidents Message Cont.

issues. One item that always seems to be at the top is temperature control and air quality. This is an important issue to tenants, employers and employees alike. As part of a survey, BOMA asked what the productivity gain would be if the worst problems were eliminated. The respondents cited an 18% gain in productivity if their HVAC problems were resolved. Now lets look at the numbers. If the average productivity of an employee is \$30k per year and that same worker occupies 150 square feet, then the productivity is \$200 per square ft. If you could increase productivity by 18% then the productivity would increase by \$36 per square foot. And how do you resolve the HVAC problems? One way is by putting in better systems. A better HVAC system is a one time capital cost and may range from \$5 to \$15 per square foot. However, that investment can result in \$36 per square foot increase in productivity year after year. So, let us not forget the value we bring.

Warmest Regards,
Deward Stegall

From The History Books

FROM THE HISTORY BOOKS

February 1977

Chapter Officers were:

President:	Dick Supple
President-Elect:	Buff Ohnhaus
Secretary:	Al Moorehead
Treasurer:	Rick Hobson

The speaker for the evening was John Holmes He spoke about the five mega-watt Solar Tower being built at Sandia National Laboratory.

This statement was printed in the newsletter "Our average attendance to date has been 48 out of a Chapter roster approaching 140. Contractors as a whole has been very poor; there is much room for improving our attendance for the last four meetings."

The balance of the Chapters' treasury was \$1,544.85

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.

For more information, email ashrae-satellitebroadcast@ashrae.org or call 678-539-1139.

ASHRAE, founded in 1894, is an international organization of 49,000 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.

- DECEMBER MEETING -

SPEAKER: James Dumholt
TOPIC: IBC Seismic Requirements

DATE: February 20th, 2007

TIME: 6:30 PM

LOCATION: The Petroleum Club

TECHNICAL SESSION: NO

MENU: TBA

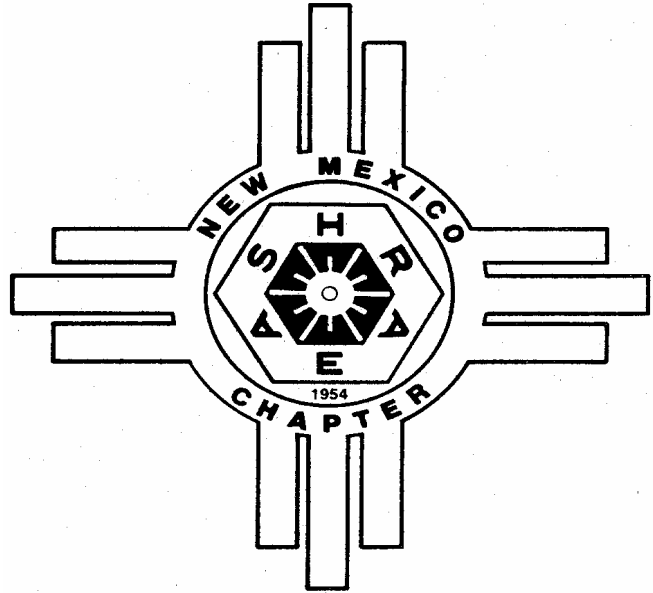
COST: \$ 23.00

RSVP: Please RSVP by February 16th, Please

RSVP with number of attendees to:

Rich Reif (505)-883-4111 Ext. 729 or

RJR@bpce.com



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Individual and corporate contributions advance industry research resulting in better products, installation methods, buildings and profits.

Please invest in your future through ASHRAE RESEARCH.

We are halfway into our 2006-2007 Research and Promotion year and our chapter members have made contributions totaling \$5,000. This is half-way to our goal which society has set! I would like to thank the individuals and businesses which have already made a contribution. It is my personal goal to achieve the collection goal for our Chapter. Please use the form above and mail either to Jason at Mechanical Representatives, Inc. or directly to society. If you have any questions, please do not hesitate to contact me by email jason@mechrep.com or phone 821-2563.

INDIVIDUAL	\$50.00	\$75.00	\$100.00*	\$125.00	Other: _____
CORPORATE	\$100.00	\$150.00*	\$250.00	\$500.00	Other: _____

*Minimum of Honor Roll Recognition by Society

		Current Collections for 2006 – 2007
<p><u>\$500 and above:</u> Mechanical Representatives N. S. Wright Co. PNM The Johnston Company W. M. Carroll & Co.</p>	<p><u>\$100 to \$249</u> Crest Mechanical Systems Nick Nellos Memorial Scott Nielson Robert Rivera Dr. Maurice Wildin Mike Dexter Mike Slaman Full Circle - \$100 per Board Member: Dan Beckley Gary Grange Dan Harmeyer Jason Moorhead Rich Rief Charlie Scoggin Deward Stegall J.R. Sunderman</p>	<p>\$11,000 \$10,000 \$9,000 \$8,000 \$7,000 \$6,000 \$5,000 \$4,000 \$3,665 \$3,000 \$2,000 \$1,000</p>

