THE HOT AIR DIFFUSER
IDAHO CHAPTER NEWSLETTER

APRIL 2010 VOLUME 16 ISSUE 7

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PRESIDENT'S MESSAGE

Hello Idaho ASHRAE members,

Thank you to Richard Lloyd last month for providing a very informative presentation on seismic bracing. His talk was full of technical information and guidelines for items not often taken into consideration by design engineers. Mr. Lloyd was brought to Boise by Innovative Air so I would like to thank them as well.

Have you ever been to a CRC (Chapter Regional Conference)? If not, I suggest attending one. This year the conference will be held in Springfield, MO on August 12th, 13th, and 14th. CRC's are surprisingly fun and provide for a good family vacation. Business for the Region is conducted on all 3 days, but there is substantial time leftover for fun and recreation. I have attended 3 CRC's and have enjoyed each of them thoroughly. Each chapter sends representatives to provide feedback at the regional level and make decisions about current and future policies. If you are interested in representing our chapter at the CRC, please let me know. Each year we try to find new people to attend. Check out the itinerary here: http://ozarksashrae.org/crc-information/

Enjoy your spring and I hope to see all of you at our technical conference next month on May 21.

Spencer Shepard, PE
President
Idaho Chapter ASHRAE

APRIL PROGRAM*

TO BE ANNOUNCED

WHEN: **FRIDAY, April 6, 2010**
11:45AM—1PM

WHERE: **Idaho Power Bldg.**
1221 W. Idaho Street
Boise, ID

***Please RSVP at www.idahoashrae.com.**

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VARIABLE SPEED REFRIGERATION
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IMPORTANT DATES

APRIL 9, 2010—ASHRAE MONTHLY MEETING

APRIL 21, 2010—ADMIN. PROFESSIONALS DAY

MAY 9, 2010—MOTHER'S DAY

MAY 15, 2010—ARMED FORCES DAY

MAY 21, 2010—ASHRAE TECHNICAL CONFERENCE

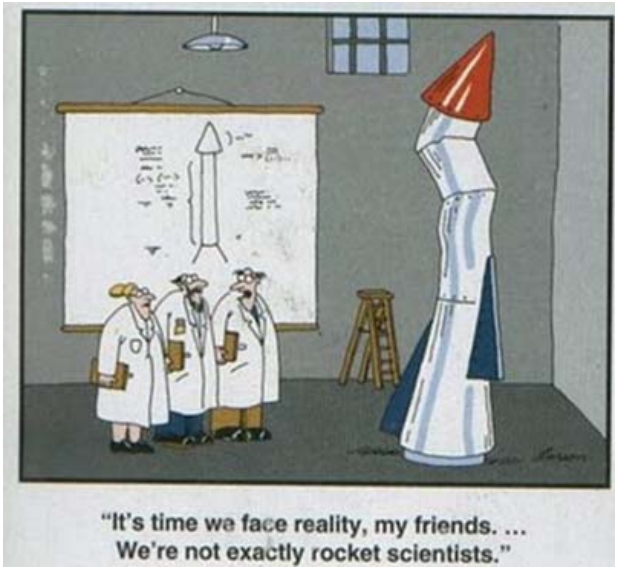
MAY 31, 2010—MEMORIAL DAY

JUNE 11, 2010—ASHRAE GOLF TOURNAMENT

QUOTE OF THE MONTH

"I have learned that success is to be measured not so much by the position that one has reached in life as by the obstacles which he has had to overcome while trying to succeed."

~ Booker T. Washington (1856-1915), American political leader, educator, orator and author.



HISTORY LESSON

Five Years Ago

The chapter president was Tony Sutton. The meeting was held on April 8, 2005, at Louie's in Meridian. Mike Anderson, The Trane Company, gave a presentation on new requirements for phasing out certain refrigerants.

Ten Years Ago

The chapter president was Ben Strawn. The meeting was held on April 14, 2000, at the Double Tree Riverside. Pat and Bonnie House talked about the upcoming CRC in August, giving a preview of CRC events, parties, and volunteer positions.

Twenty Years Ago

The chapter president was Dave Musgrove. The meeting was held on April 13, 1990, at the King's Table Restaurant. Mike Wade, Sales Engineer, Larry Harrington Company, Salt Lake City, together with an unnamed engineer from Bell & Gossett Company, gave a pump seminar at the Intermountain Gas Company Hospitality House before the regular meeting. Mike Wade gave a presentation on condensate pumps and feedwater pumps at the meeting.

Twenty Five Years Ago

The chapter president was Lee Longson. The meeting was held on April 12, 1985, at the Royal Fork Restaurant. Joe McCorkle, Engineer, Bohn Heat Transfer Division, Gulf + Western Manufacturing Company, Danville, Illinois, gave a presentation on screw compressors and their applications.

ATTENTION: ASHRAE MEMBERS

The Chapter is now accepting advertisements in the monthly newsletter.

Sponsorship Rates are as follows:

	Per Issue	Annual (9 issues)
Business Card	$10.00	$50.00
Quarter Page	$25.00	$200.00
Half Page	$40.00	$325.00
Full Page	$60.00	$450.00

NEWS FROM THE HOME OFFICE

Existing Building Upgrades: Energy-Conserving Practices and Policies Focus of NYC ASHRAE Conference

ATLANTA – From the city's most recognizable building to its first green commercial office tower, lessons learned underneath the sustainability skyline of New York City will be shared at an ASHRAE speciality conference in April.

Among the speakers at ASHRAE's Existing Buildings in Urban Areas: Dramatically Cutting the Energy Waste, are Tony Malkin, president, Malkin Properties, a real estate firm that owns and manages over 14 million square feet of office, retail residential and other properties in 15 states, including the Empire State Building, and Jody Durst, co-president, The Durst Organization, the owner, manager and builder of 9 million square feet of mid-town Manhattan office and residential properties, including 4 Times Square. These owners will help highlight NYC's ground-breaking "Greener, Greater Buildings" laws, the first in the nation to address energy usage in existing buildings.

The ASHRAE conference serves to guide the building community and government in reducing energy in existing buildings. The conference takes place April 19-20, 2010, at the Grand Hyatt in New York, N.Y. To register or for more information, visit www.ashrae.org/cutenergywaste. The conference is endorsed by BOMA International and the U.S. Green Building Council and sponsored by the New York State Energy Research and Development Authority.

Malkin and Durst are taking part in an April 19 panel focused on real estate executives. They will share lessons learned in making their properties sustainable and discuss why sustainability is a driving force in the real estate industry.

"The founders of these two organizations helped construct the city's skyline," Michael Bobker, conference chair said. "And today's generation is working to make that skyline more sustainable. The Empire State Building is undergoing a $500 million renovation with a focus on greatly reduced energy consumption and carbon emissions. And the Durst property portfolio sets new standards for use of new technologies. They truly can speak to our conference goal of cutting energy waste."

Also taking place at the conference is a session on Energy Performance Rating and Disclosure, which will include an update on ASHRAE's Building Energy Quotient program. The program, launched in a pilot phase in December, serves to inform building owners and operators, tenants and prospective buyers on the energy use of buildings, to encourage the building industry to find ways to cut energy use and costs. Some 25 buildings, represented by leading building owners and designers, real estate developers and government agencies, are involved in the pilot program.
On April 20, a breakfast talk on Strategizing an Urban Campaign is featured. Those taking part include representatives of ICLEI - Local Governments for Sustainability, an international association of local governments as well as national and regional local government organizations that have made a commitment to sustainable development, and Rohit T. Aggarwala, director, the Office of Long -Term Planning and Sustainability, City of New York. Aggarwala will provide an update on Plan NYC, New York City's ambitious long-term sustainability plan.

Also taking place on April 20 is a session Real Estate Decision-Making – Bridging the Gap between Engineers and Decision-Makers. Featured speakers from TIAA-CREF, Sentinel Real Estate Corp. and Prudential Real Estate Investors will evaluate investment in energy efficiency in existing buildings. Real estate decision makers will explain opportunity cost of capital and other barriers to investing, as well as what drives them to invest and what they need to see from engineering companies and energy service companies.

The conference addresses investment and financial decision-making, effective public policies, and necessary technical steps (energy audits, commissioning, retro-commissioning, benchmarking of utility consumption, and design and construction of energy related problems).

Sen. Feinstein Highlights ASHRAE in Congressional Record Remarks

ATLANTA—The U.S. Senate passed legislation that could make air travel a little less stressful and much more healthy by calling for the Federal Aviation Administration (FAA) to conduct a study of air quality in the cabins of U.S. airliners. The measure to protect the flying public from harmful toxins in cabin air planes was put forth by Senator Dianne Feinstein's (D-Calif.) and approved by the Senate on March 22.

In her address to the Senate, Feinstein supported her argument for further study of the quality and safety of cabin air with a 2009 letter from ASHRAE Presidential Member William Harrison, in which he called on the FAA to "investigate and determine the requirements for bleed air contaminant monitoring and solutions to prevent bleed air contamination."

"I agree with the ASHRAE recommendation that we need to study this problem and take steps to protect public health and safety," Feinstein said, in presenting the measure as an amendment to the FAA Air Transportation Modernization and Safety Improve Act. "I offer this amendment in order to implement ASHRAE's very sound recommendations, and I encourage my colleagues to support it."

In the letter, Harrison urged the FAA to consider adopting ASHRAE Standard 161-2007, Air Quality Within Commercial Aircraft, which covers issues such as temperature, cabin pressure, air contaminants and ventilation rates. The standard also addresses chemical, physical and biological contaminants that could affect air quality as well. Methods of testing are provided for ensuring compliance with the standard's requirements.

Harrison's letter was submitted to be included in the Congressional record. "The Senate legislation is a move in the right direction for aircraft passenger safety and comfort," Doug Read, program director of government affairs for ASHRAE, said. "The Society works hard to ensure federal legislation captures the important work and expertise of ASHRAE in all aspects, and utilizes this expertise to advance and protect the needs of the general public. Standard 161 is an example of ASHRAE's expertise in other areas and provides yet another avenue towards this goal."

As an amendment to the FAA Air Transportation Modernization and Safety Improvement Act, the measure will "ensure that the FAA has the information it needs to protect the public from harmful toxins in ventilation systems on commercial aircraft."

"ASHRAE is pleased to hear of this amendment, we have long urged for this issue to be addressed by the FAA" ASHRAE President Gordon Holness said. "Raising awareness to the necessity of high standards for indoor air quality, whether in a building or an airplane, helps to further the Society's mission of serving humanity through advancing HVAC&R technology."

"ASHRAE will continue to reach out to FAA and offer Standard 161 as guidance as it begins its investigations in cabin air quality, with the hope that this results in stronger regulations to

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.

ASHRAE Rises to the Occasion in Albuquerque

ATLANTA - 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 serves as the perfect site for the 2010 ASHRAE Annual Conference.

Raising Efficiency to New Levels serves as the Conference theme and echoes ASHRAEs 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 years technical program features more market-based papers and programs than in previous technology-driven ASHRAE conferences. In addition, the conference includes traditional full-length Technical Papers as well as a new Conference Paper format. Technical program tracks include: What Is Sustainable Anyway?; Energy Facts vs. Simulation; Ventilation Systems; Refrigeration for the Future; Energy Conservation vs. New Generation; Living with HVAC&R Systems; and High Efficiency HVAC Systems.

The technical program begins Sunday, June 27, and ends Wednesday, June 30, with all sessions at the Albuquerque Convention Center. Complete program details will soon be available at www.ashrae.org/newmexico.

The Albuquerque Virtual Conference also creates exciting new opportunities for attendeespresent and remoteto interact with the speakers and other attendees through the posting of questions and comments, viewing comments and viewing the presenters responses. The Virtual Conference consists of some 250+ presentations of seminars and conference and technical paper sessions. The ASHRAE Learning Institute offers eight courses, including new full-day seminars on integrated building design and implementing Standard 189.1-2009 and a new half-day seminar introducing the IAQ design guide as a tool for avoiding IAQ problems. The Conference keynote speaker is Karan Grover of Karan Grover and Associates in India. Grover will share his thoughts on the need to look at a societys culture and heritage for clues to the direction of contemporary architecture and sustainable development. The Plenary session takes place Saturday, June 26 at the Hyatt Regency Albuquerque.

ASHRAE technical tours offer an inside view of how technology developed by members is practically applied in building environments. Tours at the Annual Conference include the Albuquerque Aquarium and the heating and cooling plants of the University of New Mexico

Additionally, ASHRAE President-Elect Lynn G. Bellenger, P.E., Fellow ASHRAE, a partner at Pathfinder Engineers & Architects, Rochester, N.Y., takes office as 2010-11 president. Bellenger presents her inaugural address at the presidents luncheon on Monday, June 28, focused on modeling a more sustainable world through energy simulation, daylight analysis, CFD and BIM software.

The ASHRAE Annual Conference takes place June 26-30. To register or for more information, visit www.ashrae.org/newmexico. The Hyatt Regency Albuquerque will serve as the headquarters hotel.

ASHRAE Annual Conference to Focus on High Efficiency, Energy Conservation and Facts vs. Simulation

ATLANTA—Guidance on how to improve building systems from moisture issues to ventilation including high efficiency HVAC&R systems and ventilation systems, is an important focus of the technical program at ASHRAEs 2010 Annual Conference, June 26-30 in Albuquerque, N.M.

The program is strong in presentations that are market-based, addressing existing technology, systems and equipment, giving attendees more practical, hands-on knowledge that they can use daily in their professions, Kirk Mescher, conference program chair, said. The conference presents more paper-related sessions, a result of integrating a shorter, conference paper into the program.

The technical program starts Sunday, June 27, at the Albuquerque Convention Center. The program features 10 technical paper sessions (with 29 papers presented), 16 conference paper sessions (40 papers presented), 61 seminars, 10 forums and one technical plenary session for a total of 98 sessions and 69 meeting papers. For a complete listing of the technical program, visit www.ashrae.org/newmexico.

The program is divided into seven tracks. The tracks with the most number of programs are: High Efficiency HVAC&R Systems, Energy Facts vs. Simulation, Living with HVAC&R Systems, Energy Conservation vs. New Generation and Ventilation Systems.

Sessions of interest in these tracks include: Standard 90.1-2010, A First Look, a two-part seminar that presents information on the development and content of the upcoming 2010 version of 90.1; Energy Efficient Operation and Design of Data Centers, addressing efficiency improvement options in data centers and the resultant operating cost associated with these improvements; Energy Efficiency Retrofit Measures for Government Buildings, focused on energy efficient retrofits of existing buildings; HVAC System Noise Control for Classrooms, summarizing guidelines/requirements related to noise control in schools; and Building Energy Simulation 101, covering the basics of simulation programs and selecting the appropriate type.

Conference registrants will also be able to experience the technical program through the Virtual Conference, providing the most complete access to the state-of-the-art concepts and latest design techniques. Participants of the Virtual Conference can view and listen to programs on their own schedule, post comments and view presenters responses. Access to the Virtual Conference is included with paid conference registration or can be purchased separately.

Advance conference registration is $515 (ASHRAE member) and $680 (non-member) by May 31. Virtual Conference registration is $299 (ASHRAE member) and $464 (non-member). To register or for more information, go to www.ashrae.org/newmexico.

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

SUDOKU OF THE MONTH

Puzzle Difficulty: MEDIUM

Fill in the puzzle so that every row, every column, and every 3 x 3 box contains the numbers 1 through 9. (Answer in next month's newsletter.)

			2				3	8
4	5				8			
3				1			9	5
	6			4		8		
2								1
		5		9			7	
6	2			7				9
			8				6	3
7	1				3			

SUDOKU SOLUTION

FROM MARCH'S NEWSLETTER

3	8	1	4	5	6	2	7	9
4	9	5	7	2	3	6	1	8
6	7	2	9	1	8	5	4	3
8	2	9	5	3	4	1	6	7
7	5	6	8	9	1	3	2	4
1	4	3	6	7	2	8	9	5
9	3	7	1	6	5	4	8	2
2	6	4	3	8	9	7	5	1
5	1	8	2	4	7	9	3	6