



The Comfort Chronicle

American Society of Heating, Refrigerating and Air Conditioning Engineers, Inc.
East Texas Chapter #091, Region VIII

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A Message from Research Promotions January 2008

Each ASHRAE publication or news publication currently includes this statement,

“ASHRAE, founded in 1894, is an international organization of 55,000 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.”

Last month in our Comfort Chronicle an article from President Ernie Herterich stated that our Chapter’s goal for 2007-08 is ‘education on sustainability and green methods’. With gas and energy prices increasing as fast as they have for the past several months, it is no wonder each of us notice increased activity in hybrid or alternative fuel news for vehicles.

Our federal government, ASHRAE, and other organizations have targeted high-performance and net-zero-energy buildings according to a November 16, 2007 news release from Society. The same article promotes a two-part seminar at ASHRAE’s 2008 Winter meeting explaining the importance that operation and maintenance of these types of buildings play in reducing energy consumption and sustainability.

In another ASHRAE news release (November 13, 2007) building information modeling (BIM) is becoming a valuable tool in real-time modeling the life of a building and project design improvements prior to actual construction that reduce sustained

January Meeting

Date: January 17, 2008

Location: Trane
Customer Visit Room
6200 Troup Hwy
Tyler, TX 75707

Cost: \$15 if reservation rec'd by Jan. 10
Or \$20 if rec'd later (students eat free)

Schedule: 11:15 AM Social
11:30 Lunch
12:00 Program
1:30 Adjourn

Program: Underwriter Lab: Data Acceptance
Program and ISO/IEC 17025
Workshop – Jodi Hepner

Please RSVP to:
Sheri McLain, phone 903-581-3391,
fax 903-579-7862
email sheri.mclain@trane.com

**Additional technical 17025 Workshop – 1:45 – 4:45
PM Jan. 17 – Customer Visit Room**

Board Meeting

7:00 AM – TJC White Administration Building –
Jan. 17, 2008

energy costs. Along with reducing energy costs, this new software tool used in aerospace and manufacturing industries is benefiting architects and engineers in designing more sustainable buildings. It is expected that this building modeling tool can make buildings safer, healthier, and more

efficient with fewer errors and less waste during its actual construction.

ASHRAE's involvement with BMI is its representation on the "buildingSMART" Alliance, which is part of the National Institute of Building Sciences. ASHRAE's contribution is their influence with common terminologies and technologies to ensure data exchange across platforms (ASHRAE, Nov. 13, 2007). The ASHRAE news release continues to say that this alliance also includes the International Code Council, the International Alliance on Interoperability and the Construction Specification Institute.

Our industry is positioning itself for significant changes in the area of green buildings and sustainability with these new alliances and innovations. Engineers should have several new tools and guidelines to support ASHRAE's goal of sustainability and energy conservation. Even though BMI is in its infancy, giant steps are being taken to globally address sustainability in construction.

Just imagine! This year ASHRAE is celebrating the 125th anniversary of the first frozen shipment of meat from New Zealand to Europe. After a 98-day voyage the *Dunedin* carried 3,521 sheep and 449 lamb carcasses to London without spoilage. Transporting meat without spoilage over more than 3-months was quite a fantastic engineering feat for 1882.

Sustainability and green building engineering will probably look back on its history within a few decades instead of centuries.

All of this advancement and speed is due to technological improvements and increase in research dollars. ASHRAE has maximized its use of research dollars by 1) matching dollar-for-dollar Chapter research contributions through the International Air-Conditioning, Heating, Refrigerating Exposition (AHR expo) resources, 2) utilizing research universities talent, 3) utilizing the top engineering experts in the world to review research results, and 4) sharing studies results with its membership.

In our Region (Region VIII) this year ASHRAE has awarded in excess of \$778,000 for research. More importantly, within Texas, more than \$475,000 research dollars have been awarded by

ASHRAE to local universities. Not only enhancing the education opportunity for each university involved, the strides accomplished in sustainability and energy conservation should exponentially progress much faster than past milestones such as the celebratory event mentioned previously.

To sustain this success, our Chapter needs your help. With every member contributing \$5/year of ASHRAE membership toward research, you can have a stake in the future of our industry. Each officer, Board of Governor, and some of the Chairs have contributed more than \$100 per individual. Please join them in making this another successful contribution year.

Rhamy Morrison, ET ASHRAE RP Chair

NEWSLETTER INFORMATION

I'm very happy to share the East Texas ASHRAE news with you. Email me your comments or news related to our dynamic industry.

Bert McJimsey, Newsletter Editor

ASHRAE, founded in 1894, is an international organization of 55,000 persons. Its sole objective is to advance through research, standards writing, publishing and continuing education the arts and sciences of heating, ventilation, air conditioning and refrigeration to serve the evolving needs of the public.

ASHRAE BOG Meeting – December 13, 2007 Meeting Minutes

Members in Attendance

Gene Branum, Kristin Schaefer, Rhamy Morrison, Don Schuster, Stan Wilkins, Robert Helt, John J. Bailey, Bill Stiles, Ernie Herterich

President's Address – Ernie Herterich

1. Summary of Current Membership
 - a. 132 Chapter Members
 - i. "Area assigned members"
 - ii. 56 Student Members
 - iii. 32 Direct Members
 - iv. 26 Associate Members
 - v. 18 "others"
 1. 7 Life members
 2. 4 Fellow Life members
 3. 1 Fellow
 4. Others

2. Ernie has free AHR Expo tickets for show in New York in January
3. Ernie also has a one-day pass for Winter or Summer meeting, direct from HQ
 - a. You must be a first-time attendee
4. Comments on Art Geisler's article about Kent Peterson's media blitz in NY
5. Leslie has been posting articles & updating website.

President Elect – Kristin Schaefer

1. CRC Delegate
 - a. Leslie has volunteered to take the delegate position to the CRC in Shreveport.
 - b. Kristin & John B. to help Leslie help write the CRC report.
2. January Tech Meeting
 - a. Air Rover or Caldwell zoo? Kristin will decide this soon
 - b. Kristin has reserved a room at Trane just in case we need it
 - c. Alternate/Backup Program: UL's data acceptance program has changed, and Aeon has a seminar they can put on. This however, would cost \$1000 to get a person from UL to come. We can possibly get the engineering departments at Carrier & Trane to foot the bill for this presentation. This is a one day workshop that would be condensed into 2 hours.
 - d. Maybe we could ask AEON to foot 1/3 of the bill.

Secretary – John J. Bailey

1. No updates.

Research & Promotion – Rhamy Morrison

1. Casino night committee is having two meetings a month now to prepare for the event
2. Last week sent out flyers to major donors looking for donations
3. Commitments from gaming company & hotel for March 29 date
4. Vendor letter sent out.
5. Brookshires will not be donating this year.
6. Rhamy is very pleased with the response from the BOG to meet the challenge & donate \$100. There has been ~ 90% participation from the BOG.
7. Next focus is to get other chapter members to contribute \$25 each
8. First time for "First Calling" event. Don S. & Robert H. are helping Rhamy with this.

Student Activities – Stan Wilkins

1. No commitment from student chapters on student design competition
2. E-Week Banquet is Thursday, February 21, 2008 @ LeTourneau University
3. Speaker is Steve McCoskey, Topic: "Chemicals from Coal"

4. Stan is representing ASHRAE on the E-Week Committee
 - a. He has been tasked with contacting the local high schools
5. Robert Helt mentioned that there are very few actual engineers that go to the dinner, and that the students really want to learn about engineering. He feels that we should strive to get more engineers to attend E-Week.
6. Gen Branum noted that his ASHRAE Students adopted some Angel Tree children.
7. There has been one student that has expressed interest in the local history scholarship.

BOG / Historian – Don Schuster

1. Don will write feature article for Comfort Chronicle for January
2. ASHRAE Archive is either in a file cabinet on the mezzanine at Trane or in Sheri's locker.

Treasurer – Bill Stiles

1. Estes McClure Check has not been found.
 - a. Bill will find the check.
2. The post office box has solved the problem of checks coming to different locations, going missing & expiring.

Next Meeting

January 17, 2008 @ TJC White Administration Board Room

Daylighting More Popular in Corporate Building Designs

PALO ALTO, Calif.—Daylight has become a premium in building design because it saves energy, and research shows that workers with access to natural light are more productive. Companies incorporating large amounts of daylighting into new buildings include software company SAP and Jay Paul Co. of San Francisco. SAP is constructing its U.S. headquarters in Palo Alto, Calif., with a goal "to get light to as many people as possible," according to a company official. Jay Paul Co. is building Silicon Valley's largest development in five years, the 1.8 million ft² (167 000 m²) Moffett Towers, with a "curtain wall" of floor-to-ceiling windows.

California Governor Issues Proposal to Increase Engineering Workforce

SACRAMENTO, Calif.—California Gov. Arnold Schwarzenegger has announced a program to add 20,000 engineers to the state's workforce over the next 10 years. The governor's proposal would establish programs at state universities to expedite certification for veterans with engineering backgrounds, develop new apprenticeship programs, promote increased private funding of engineering programs at state universities and colleges, and develop engineering-focused charter schools. The California Labor & Workforce Development Agency projects a shortfall of almost 40,000 engineers by 2014 unless immediate action is taken..

Chilled Air System in China Could Replace AC

HAIKOU, China—A Chinese energy company has started work on a centralized refrigeration station in the southern China city of Sanya. The station is being built to reduce the use of traditional air conditioning. It will make ice during the night, when energy demand is low, and send cooled air to buildings during the day. The project includes a refrigeration station that can cool 4.3 million ft² (400 000 m²) and 26,000 ft (8000 m) of pipes. Upon completion, it is projected to save 15 million kWh of electricity and 70 million ft³ (2 million m³) of liquefied petroleum gas per year, compared with traditional decentralized cooling systems.

ARI, GAMA Merge

ARLINGTON, Va.—The Air-Conditioning and Refrigeration Institute (ARI) and the Gas Appliance Manufacturers Association (GAMA) announced Dec. 19 that their members have voted to approve the merger of the two trade associations to represent the interests of cooling, heating and commercial refrigeration equipment manufacturers. The merged association will become the Air-Conditioning, Heating and Refrigeration Institute (AHRI) on Jan. 1, 2008. It will be headquartered in Arlington, Va. The AHRI Board of Directors has appointed Johnson Controls Vice President C. David Myers as chairman of the combined organization.

U.S. EPA Partners With Refrigeration Industry to Reduce GHGs

WASHINGTON, D.C.—The U.S. Environmental Protection Agency (EPA) and representatives of the supermarket, refrigeration equipment and chemical refrigerant industries have launched the GreenChill Advanced Refrigeration Partnership—a voluntary program to promote sustainable technologies, strategies and practices that protect the stratospheric ozone layer, reduce greenhouse gases and save money. The 10 founding companies, as well as those that join the partnership in the future, must pledge to go above and beyond regulatory requirements by establishing an inventory of current refrigerant emissions that may affect climate change and the stratospheric ozone layer, and then setting reduction targets for emissions.

North America's Largest Solar Array Powers Air Force Base

LAS VEGAS, Nev.—The final portion of the largest solar panel installation in North America is expected to be brought online this month, saving Nellis Air Force Base \$1 million a year. The 15 MW, 70,000 solar-panel array covers 140 acres (57 ha) of the base, located outside of Las Vegas. The solar panels are designed to follow the sun throughout the day. When fully operational, the installation is expected to provide up to 30% of the base's power and save about \$83,000 a month in energy costs.

'Green' Is the Thing at 2008 AHR Expo

WESTPORT, Conn.—The latest in sustainable products, trends, technologies and solutions from more than 1,800 companies from around the world will be featured at the 2008 AHR Expo®. Other new “green” features of the 2008 Show include a net-zero-energy buildings exhibit sponsored by the U.S. Department of Energy, a United States Environmental Protection Agency seminar on ENERGY STAR® energy management tools and strategies, and a New York State Energy Research and Development Authority exhibit and seminar on its energy savings program and incentives. The Expo will be held at New York’s Jacob K. Javits Convention Center on Tuesday–Thursday, Jan. 22–24. The International Exposition Company -produced event is cosponsored by ASHRAE and the Air-Conditioning and Refrigeration Institute (ARI). The Heating, Refrigeration and Air Conditioning Institute of Canada (HRAI) is an honorary sponsor.

NEW YORK—The Rockefeller Center Christmas tree is incorporating "green" practices this year with energy-saving lights replacing traditional bulbs as decorations. The tree is lit by 30,000 LEDs on five miles (8 km) of wire. The LEDs reduce energy consumption from the normally generated 3,510 kWh to 1,297 kWh per day. Also, solar panels have been installed on the roof of Rockefeller Center to help power the lights. The solar roof will generate more electricity in its first year of operation than the lights will consume over the 42 days they will be illuminated. The 84 ft (25.6 m) tree is viewed by an estimated 500,000 people daily.

New York AHR Expo May Be Biggest

WESTPORT, Conn.—The AHR Expo®, in its 60th showing, will return to New York City for the first time in 17 years. The world’s largest exclusively HVAC&R event will be held at the Jacob K. Javits Convention Center on Jan. 22–Jan. 24, 2008. The 2008 event is expected to be one of the biggest Expos ever and will feature exhibitors representing 35 countries. Some 1,800 manufacturers will exhibit, including 118 first-time exhibitors.

U.S. Engineers Generally Satisfied

MANHASSET, N.Y.—Engineers, particularly in North America, are generally satisfied with their careers, according to EE Times magazine's Annual Salary & Opinion Survey. According to the almost 1,600 respondents to this year's questionnaire, engineers in the United States have median annual compensation of nearly \$109,000, more than \$40,000 higher than engineers in Japan and Europe. However, U.S. engineers reported concerns about job security and the outsourcing of engineering work to lower-cost markets, mainly in Europe and South Asia. Overall, slightly more than 67% of respondents declared themselves content with both their career and their employer. Only 14% expressed the opposite sentiment.

NREL Building Sustainable Building, Increases Renewable Energy Use

GOLDEN, Colo.—The U.S. Department of Energy's (DOE) National Renewable Energy Laboratory (NREL) broke ground this week for a new 210,000 ft² (19 500 m²) research support facility. The facility will make substantial use of daylighting and is expected to be the second building at NREL to achieve a LEED Platinum rating from the U.S. Green Building Council. Also, to boost its on-site production of renewable energy, NREL is installing a biomass-fueled heating plant and a 750 kW solar photovoltaic power project on the NREL campus.



**American Society of Heating, Refrigerating and Air Conditioning Engineers, Inc.
East Texas Chapter #091, Region VIII**

2007 – 2008 CHAPTER OFFICERS

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Future ASHRAE Meetings

2007 ASHRAE Winter Meeting
January 26-30
New York, NY

Region VIII CRC
April 24-27, 2007
Shreveport, LA

2007 ASHRAE Summer Meeting
June 21-28
Salt Lake City, Utah

Future East Texas Chapter Meetings

Lunch Meetings

January	17	UL: Data Acceptance Program
March	20	
April	17	
May	15	

Dinner Meeting

February 28 EWEEK Banquet

List of Committees for 2008-2009 Appointments

Please send your recommendations to President-Elect William Harrison (waharrison@trane.com) with copy to Kemin McCutchen (kmccutchen@ashrae.org) for Mr. Harrison's consideration in appointing members to the following committees for 2008-09:

Admissions and Advancement
 Advocacy
 Certification (pending Board approval)
 Electronic Communications
 Environmental Health
 Finance
 Historical
 Honors and Awards
 Meetings Arrangements
 Planning
 Professional Development
 Publications
 Refrigeration
 Society Program
 Society Rules
 Standards Advisory
 Young Engineers in ASHRAE

For Your Information

If you wish to recommend individuals to serve on the following committees, please submit your recommendations through your region:

Chapter Technology Transfer
 Membership Promotion
 Resource Promotion
 Student Activities

Recommendations for the following committees were solicited earlier this Society year. Members of these committees will be elected by the Board of Directors at the 2008 Winter Meeting:

Standards Committee
 Research Administration Committee
 Technical Activities Committee
 Handbook Committee
 Nominating Committee
 Km/2007-12-13