



The Comfort Chronicle

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

Volume XXVI, Issue II, October 2006

www.ashrae-etex.org

The 2006 – 2007 Technical Meeting Season



Our East Texas chapter has ten events planned for you this year, that are guaranteed to knock your socks off. We are going out into several sites to experience the smell, sight, sound and touch aspect of leading and innovative HVAC&R applications here in our own East Texas area. We have kicked

off the year already with a rare visit to the HVAC systems at Wal-Mart. Very few people outside of the direct service personnel of Wal-Mart, have ever been allowed access to their HVAC&R equipment, but on September 21st, we were shown their refrigeration mechanical room and RTU's, that turned out to be an excellent and informative visit.

We will visit the gigantic 7,586,000 cubic feet of freezers in Pilgrim's Pride food distribution center in Mt. Pleasant on Nov. 16th. It can store 40,000,000 pounds of frozen food thanks to the 1,200 tons of refrigeration capacity supplied by the ammonia system. I could boast on and on about the sheer size of the equipment and facility but you must check it out for yourself. Now keeping on the big **R** (refrigeration) theme, we have a visit to a local Tyler meat processing plant, Loggins Meat Co., in January. We will see their Spiral Gyro Freezer and several more interesting ammonia and hydrocarbon refrigerant systems.

Moving indoors, to a more subdued but nonetheless rich environment for learning, we have several ASHRAE sponsored satellite broadcasts. The first broadcast is in Nov. and covers building security and the second in April has the ever-present theme of indoor air quality. In keeping with that theme, our very own chapter member, Dr. Jeff Shenefeld, will deliver a presentation on Indoor Environment Quality (IEQ) in April. IEQ is a subject that is near and dear to Jeff's heart as he is one of the original and primary forces behind the initiative to establish the TxAIRE institute here in Tyler. So, April is IAQ/IEQ month and a time to enhance your knowledge on clean, spring-fresh quality air.

I could go into more detail as to the several other exciting and interesting presentations we have lined up for you this year, however it will have to suffice to give them mention with out going into further detail. In March, Estes, McClure

& Associates will again graciously host a meeting on case studies on building energy management. In December of this year, Ernie Herterich will also give an in-depth presentation of one 'smart house' in Europe and the systems that were installed to make it energy efficient and easy to run. However in keeping 'the best wine until last', we have the pleasure of hosting our very own local 'distinguished lecturer', Mr. Chris Allen. Chris has a vast experience on green buildings and renewable resource development in the U.S. and all over the world. He has worked with the U.S D.O.E, World Green Building Council and the United Nations among others, but will present on 'the marketing dynamics of Green buildings'.

Finally, this month, on October 19, we have the pleasure of visiting an absolutely brand new Ratliff building on the UT Tyler campus. Here we will see the latest in large commercial HVAC equipment systems, along with an innovative energy recovery system. This year the technical meetings are an exciting line up of all aspects of the HVAC&R business. You will be able to pick up some very interesting knowledge but should 'whet your appetite' to go make a difference in ASHRAE and the HVAC industry as a whole.

Ernie Herterich

October Meeting

Date: October 19, 2006
Location: Ratliff Building
University of Texas at Tyler
3900 University Blvd.
Tyler, TX
Cost: Adults \$10, Students free.
Schedule: 11:15 AM Lunch @ the MET
PHE Building on campus
12:00 Program @ Ratliff Bldg
1:00 Adjourn

Program: HVAC&R Tour of Ratliff Building
By Jimmy Taylor

Please RSVP on or before noon Tuesday, Oct. 17 to:
Sheri McLain, phone 903-581-3391,
fax 903-579-7862 – Cost \$12 if you RSVP late or
show up without a reservation.
email sheri.mclain@trane.com

Board of Governors Meeting

7:00 AM – Ratliff Building South, room 2023– Oct. 19, 2006

ASHRAE RESEARCH

Our chapter is off to a great start with contributions in 2006-2007. Thanks to Ernest Herterich for starting our Chapter contributions this year.

ASHRAE's strategic plan for Research (2005-2010) is Navigation for a Sustainable Future. Active research dollars are distributed throughout the United States encompassing some \$7 million – plus. Our region, Region VIII, currently has active projects at Texas A&M University and Oklahoma State University totaling \$320,000 plus.

Therefore, monies contributed by membership are returned to research facilities within any given region. So, your contributions are helping our local economy. In fact, in 2004, ASHRAE issued research dollars within our Region at the rate of \$160 research funds to \$1 contribution from our East Texas Chapter. That is a significant return on our contribution dollars helping to keep jobs in our Region.

Did I mention contributions are tax deductible? Well they are! So, now you have three good reasons to meet the challenge issued by your East Texas Chapter BOG to contribute \$10 from each member. Your leadership has challenged each member to contribute to Research Promotion a minimum of 10% of their contribution. Those reasons are:

1. Returns Research dollars to our economy helping to reduce unemployment rates.
2. Contributions are tax deductible.
3. Contributions are helping to keep our planet environmentally friendly. By helping our environment, each contributor is helping to insure quality of life for themselves and their family members.

Helping our economy and improving our family's health and well-being are top-of-mind priorities.

Furthermore, ASHRAE Research contributions benefit our industry by establishing standards, proving new technology, improving old technology, and improving quality of life in our buildings and food supplies. Most of the research dollars concentrate on indoor air quality (IAQ), comfort, and health. The next level of focus involves Research projects in Energy Conservation and Environmentally safe refrigerants.

ASHRAE is a grass-roots society depending on the voluntary spirit of its members for professional input and guidance on technical committees. Our Chapter is fortunate to have several members that contribute to this element. This shows that our Chapter is interested in advancing the science of Engineering and the HVAC-R industry.

Going forward, I encourage each member to solicit others within the HVAC-R industry to become members, contribute to moving our industry focus forward, become

involved in Society's strategic plan for a Sustainable Future, and give back a small portion of what HVAC-R has given to us.

Rhamy Morrison
Research Promotion Chair

Yo! ASHRAE Video Promotes Engineering as Career

ATLANTA – The hottest new rap video can't be seen on MTV, BET or even VH-1 – it's on ASHRAE.org.

That's right – "rap video." Not something you would think that the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) had the 4-11 about, right?

"If ASHRAE and our industry are going to be successful in promoting engineering and HVAC&R as career options, then we have to reach out to young people in a way that is entertaining and interesting to them," Ron Johnson, chair of ASHRAE's Student Activities Committee, said. "Hence, this video."

ASHRAE: Licensed to Chill features a hot soundtrack accompanied by interviews with young members highlighting the importance of the HVAC&R industry to the world; the diverse and creative opportunities related to engineering as a career; and the difference the building industry makes related to sustainability.

"The video drives home the message that our industry truly engineers the world we live in, and that young people don't want to miss out on the chance to be a part of that," he said.

The video will be made available to middle and high schools that seek information about careers in engineering from ASHRAE. It also is available in several formats suitable for downloading at www.ashrae.org/chill.

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 rapping, research, standards writing, publishing and continuing education.

State of the Engineer Survey' Contrasts U.S., Indian Engineers

MANHASSET, New York—The "2006 State of the Engineer Survey" by EE Times magazine contrasts engineers in India and the U.S. According to the survey, the typical U.S. engineer is older, better compensated and generally more complacent. Indian engineers are more likely to be looking for new jobs.

U.S. Energy Department Proposes New Efficiency Standards for Home Furnaces

WASHINGTON, D.C. —The U.S. Department of Energy has proposed minimum energy efficiency standards for home furnaces and boilers. DOE's proposal would require all gas furnaces to have at least an 80% annual fuel utilization efficiency (AFUE) rating. It would go into effect in 2015. However, some are criticizing the proposal. They say that 80% AFUE is a level already met by most furnaces being sold, and it is only a slight increase over the requirement issued nearly 20 years ago.

Building Analysis Software From Trane

PISCATAWAY, N.J.—TRACE™ 700 software from Trane is an analytic tool for building system designers. It enables them to optimize the building, system and equipment designs on the basis of energy use and life-cycle costs. According to the company, the software has been approved by the U.S. Internal Revenue Service for commercial property owners to certify energy savings for tax deductions enacted in the Energy Policy Act of 2005

Energy Calculations Software From Carrier

SYRACUSE, N.Y.—Carrier offers E20-II, a collection of software programs for HVAC system designers. E20-II Hourly Analysis Program (HAP) v4.31 provides load estimating and system sizing for commercial buildings, as well as energy and operating cost analysis. According to the company, HAP has been approved by the U.S. Department of Energy for commercial property owners to certify energy savings for tax deductions enacted in the Energy Policy Act of 2005.

Mild Winter Predicted for Much of U.S.

WASHINGTON, D.C.—A weak El Niño underway in the Pacific Ocean should contribute to a mild winter for much of the United States, according to the National Weather Service. El Niño, a warming of the tropical Pacific sea surface, accompanied by changes in winds and air pressure, began in September and is expected to last into next year. The result, forecasters said, should be a winter marked by above-normal temperatures, though perhaps not as mild as last year, which was the fifth-warmest on record.

'Green' Contractors Are Hard to Find

NEW YORK—It is difficult to find contractors familiar with sustainable building practices and supply companies that carry "green" products. In many cities, demand for sustainable remodeling projects is growing, but most builders aren't keeping up, according to an Oct. 1 New York Times article. Because of a lack of knowledge among many builders, homeowners are taking a more active hand in the renovations.

Demand-Controlled Ventilation and Sustainability

By Tom Lawrence, P.E., Member ASHRAE

Demand-controlled ventilation (DCV) impacts overall building sustainability through influences on the total and peak energy consumption of the HVAC system and IAQ. According to the author, demand-controlled ventilation has the potential to provide significant HVAC energy savings by conditioning only the amount of ventilation air necessary to maintain good IAQ.

ASHRAE – Region VIII, Chapter # 091

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Meeting of Board of Governors (BOG)

Meeting date: Thursday September 21, 2006 (7:00 to 8:00 AM CST)

Meeting location: Dwayne's Country Café, E. Fifth St, Tyler

Attendees were: Kristin Schaefer, Emily Hoffman, Bill Stiles, Ernie Herterich, Mohammad Farooq, Gene Branum and Jeff Shenefelt

President's Opening Remarks: (Kristin)

Kristin presented an agenda to each present member. The agenda contained the officer/committee report topics, the latest edition of the MBO and who missed/met each goal.

Treasurer (Bill Stiles) gave a report on account and made the statement that we may not have enough people to cover the cost of the students at the monthly meetings. Kristin suggested redirecting excess funds from the research promotion event to cover the students. She thought this should not be a problem since we always meet our obligation. Money will not be redirected from the account until the goal is met. If we still don't have enough money, we will not take it out of the account. Kristin also stated that the students are the future of our society and we don't want them to not come because of lack of money. We also will not raise the dues to cover the cost because some members will not agree with this. Rhamy Morrison (not present) will need to be contacted first before a decision can be made.

President-Elect (Ernie) discussed the September 21st meeting. Wal-Mart cannot accept a gift card (for hosting our September meeting) due to company policy so he will have Sheri McLain print a thank you card. Ernie has set up a tour of the machine room & roof top A/C units.

Everything is all set for the October meeting which is a tour of the HVAC equipment on the new engineering buildings at UT Tyler. The tour will focus on energy recovery and chillers. Since there is so much equipment to see, there will be more left for future tours. The food will be a buffet set up by UT Tyler and the cost is \$6.50 - \$7 per person. Kristin will be the food information to Leslie by October 1st.

Ernie stated the results are in from the Customer Survey given to the members at the Food Bank last May. 11 responses were received and the results indicate that members want to see more student participation. The favorite topic last year was on Scroll Compressors.

Ernie is trying to get a distinguished lecturer on the topic of sustainability and energy issues. There are currently 44 distinguished lecturers and their fees range from 0 - \$1200.

Due to our budget, Kristin does not want to pay additional fee for a lecturer, but likes the sustainability idea.

Jeff suggested a local man who sits on the Green Building Council. He will contact him. He also suggested doing a joint lecturer with the American Society of Mechanical Engineers. He will contact Tom Crippen, head of the UT Tyler chapter of ASME.

Kristin will ask Dick Cawley about the Pilgrims Pride tour date for a refrigeration training meeting.

Rhamy Morrison was not present but did make it to the Research Promotion meeting in Las Vegas. Kristin said that our goal increased from last year but we have events planned this year that will help us meet the goal.

Mohammad had started the list of the past presidents which goes back to 10 years. He needs to contact Robert Helt to get the other lists. He would also like to add a blurb of each in his compiled list.

Jeff stated he does not have time to be student chair. Kristin asked Gene and Jeff to pass scholarship information and EWeek information along to students. There will be 31 students present at today's meeting.

Kristin reported that Leslie has made progress on the website but it is not completed. She needs electronic copies of the programs.

The lead October article is by Ernie which will be advertising of the programs for the year. He needs to supply a photo to Burt for the newsletter.

NEW BUSINESS

The Chapter constitution and bylaws are due for updating. Headquarters has reviewed and revised our existing constitution and bylaws. Kristin recommends accepting the proposed revision as is. Next month we will accept or reject the revision. If we reject, we will edit the changes, then accept.

PAOE points can be earned by emailing the goals of each subcommittee to the regional vice president.

Bill Stiles suggested a new BOG meeting location at the Residence Inn. They serve a continental breakfast. Ernie stated we get too much food on meeting days and suggested going to a place with no food. Kristin will check on Residence Inn to see if they charge for meals. Jeff suggested a conference room at UT Tyler. Ernie stated this would be a good idea to incorporate students.

Misc. Business

Sheri will be contacted about making a generic thank you note to give to the hosts of our monthly meetings.

Ernie will get a bio on the speaker for the monthly meetings.

Prepared by Emily Hoffman on 10/1/06.

Do you need continuing education credits or professional development hours?

Well, if you are a Professional Engineer or a Licensed Contractor, then you are **REQUIRED** to have 15 or 8 hours per year.*

The East Texas Chapter of ASHRAE
is dedicated to meeting your educational needs

We will host several educational opportunities for you this 2006-2007 year.

You don't have to spend a bundle; some of the courses will cost no more than the meal.

You don't have to travel to Dallas or Houston; the courses will be here in Tyler.

We will even have a Mechanical Engineering PE review course for those of you thinking about becoming a Professional Engineer.

The schedule below will be updated each month as more information becomes available.

| Date | Time | CE Course | Location |
|--------------|-------------------|---|---------------------|
| 14 Nov 2006 | 12 noon – 3:00 PM | Satellite Broadcast: Multiple Benefit Solutions for Enhanced Building Security | Trane Snow White |
| Jan/Feb 2007 | TBD | TestMasters PE review course | Trane |
| 19 Apr 2007 | 12 noon – 3:00 PM | Satellite Broadcast: Indoor Air Quality | Trane Snow White |

* Texas Board of Professional Engineers requires all active PE's to have fifteen (15) CE hours per year with at least one (1) of those hours being ethics.

The Texas Bureau of Licensing and Regulation requires eight (8) hours of CE per year for Contractors.



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

2005 – 2006 CHAPTER OFFICERS

| | | | |
|------------------|-----------------|--------------|--|
| Kristin Schaefer | President | 903-581-3289 | kristin.schaefer@trane.com |
| Ernest Herterich | President-elect | 903-241-3320 | herterichfamily2@earthlink.net |
| Emily Hoffman | Secretary | 903-581-3528 | emily.hoffman@trane.com |
| Bill Stiles | Treasurer | 903-597-3442 | bsti@tjc.edu |

BOARD OF GOVERNORS

| | | | |
|--------------|-------------------|--------------|--|
| Don Schuster | BOG/Past Pres/Mem | 903-510-7440 | don.schuster@carrier.utc.com |
| Jeff Stewart | BOG | 903-581-9157 | jeff.stewart@trane.com |
| Robert Helt | BOG | 903-581-3651 | robert.helt@trane.com |
| Dick Cawley | BOG/CTTC/Refrig | 903-566-3957 | dickcawley@cox-internet.com |

COMMITTEE CHAIRS

| | | | |
|------------------|---------------------|--------------|--|
| Mohammad Farooq | Historian | 903-510-7361 | mohammad.farooq@carrier.utc.com |
| Rhamy Morrison | Research Promotion | 903-581-9101 | rhamy.morrison@trane.com |
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| Art Giesler | Region VIII DRC | | palatusa@aol.com |

Future ASHRAE Meetings

2007 Winter Meeting
January 27-31
Dallas, TX

Region VIII CRC
April 13 - 15
Oklahoma City, OK

2007 ASHRAE Summer Meeting
June 23-27
Long Beach, CA

Future East Texas Chapter Meetings

| Lunch Meetings | | Location |
|------------------|---|----------------------|
| October 19 | Tour or Ratliff Building – UTT | UTT |
| November 14 | Satellite Broadcast – Bldg Security | Trane |
| December 15 | HVAC “Smart House” | Carrier |
| January 18 | Refrigeration in a meat Processing plant | Loggins Meat Company |
| February 22 | Jt. Engineers Week Banquet | TBD |
| March 22 | Case studies in Energy Mgmt | Estes McLure |
| April 19 | Satellite Broadcast – IEQ | Trane |
| April 26 | Health Affects on IEQ | UTT |
| May 17 | Dist. Lecturer – Chris Allen Marketing “Green Buildings” | Trane |
| Evening Meetings | | Location |
| November 16 | Deep Freeze Cold Storage – Pilgrims Pride | Mt. Pleasant |
| February 22 | Student Engineer Banquet | |

2007 ASHRAE Winter Meeting Jan. 27-31, 2007



DALLAS – Join ASHRAE in Dallas for its 2007 Winter Meeting and the AHR Expo and get energized!

The meeting takes place Jan. 27-31, 2007, at the Adam's Mark Hotel, while the AHR Expo is held from Jan. 29-31 at the Dallas Convention Center.

What can you expect at the meeting?

- Quality technical programs
- Entertaining social events
- Educational courses
- Networking with your peers
- Unique sightseeing opportunities
- Over 1,400 exhibits at the AHR Expo
- A unique “Members Night Out”
- Great program for students

Several new programs and events will be offered for the first time at a winter meeting. These include a networking lounge open to registered members and spouses for coffee and conversation; the Members Night Out featuring a relaxed and fun way to celebrate the final night of the meeting; an Internet café with Internet access available in the lounge; more presentations in the technical session (program begins at 7:45 a.m. each day); and a keynote speaker at the Plenary Session.

Hotel Accommodations



The headquarter hotel is the Adam's Mark Hotel Dallas, 400 North Olive Street, Dallas, Texas, 75201. Rates are \$155 single/ \$165 double. Online reservations will be available to ASHRAE members and conference attendees. Individuals requiring accommodations should check the Hotel Information Required button on the online form or ask for the link when you send in your meeting registration form. Reservations cannot be made by phone. The technical program, committee meetings and all social events are scheduled in the Adam's Mark.

Registration

Save money by taking advantage of the early bird pricing - register before Nov. 2 and save \$25. Advance registration closes Dec. 15 and fees increase on site, so register early! By registering, you are automatically registered for the AHR Expo.

TRULUCK'S

Seafood * Steak * Crabhouse

2401 McKinney Ave.

Dallas, Texas

Region VIII
Regional Dinner

Monday Night

Starting with Cash Bar

6:30 PM to 8:30 PM



RSVP to (Region VIII)
Bob Gleeson
Assistant Regional Chair
<mailto:bgleeson@alamocontrols.com>
(210) 658-0900
Fax (210) 658-1888

Reservations are required
Payment in advance or at
Door - By Cash or Check
No Individual Credit Cards

Region VIII Dinner Monday January 29

Menu
(Choices to be made at
dinner)

~ Soup or Salad ~

Crab Corn Chowder
or
Sonoma Greens Salad

~ Entrees ~

Tenderloin Filet
or
Grilled Salmon
or
Garlic Grilled Shrimp
all entrees served with fresh
bread and parmesan mashed
potatoes

~ Dessert ~

Chocolate Malt Cake
or
Key Lime Pie

~ Beverages ~

Soft Drinks, Coffee and Iced Tea

All Inclusive Price:
(Includes Tax & Tip)
\$55.00