



# The Comfort Chronicle

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

January 11, 2010

VOLUME 1, NUMBER 4  
www.ashrae-etex.org

## What Is A "Green Building"?

By James D. McClure, P.E.

The term "Green Building" is used loosely and with different intentions of meaning. What does "going green" mean? Is green good? The following are a few responses to the term "green".

- . money, cash
- . green
- . sick: green with envy
- . environment
- . golf putting green
- . frog
- . vegetables, salad
- . green light "go"
- . inexperienced person - green
- . plants

Green is a color that, via political talk, has evolved to mean environmentally friendly and efficient. So is a "green building" environmentally friendly? I heard one person speak of their green building only to mean they did recycling. Others speak of green buildings as super energy efficient, low environmental impact materials selection, and recycling during construction. Sustainability is another, related term used that many define as practices and technologies that utilize resources in ways that either preserve or enhance the condition of the world for future generations. It says use what we need for today without sacrificing resources of our children for tomorrow.

So when someone tells you they are "going green" or have a "green building", look to see if

it's green in color. If not ask them what standard did they use in defining a "green building" stay tuned for more updates.

## ETEX ASHRAE BOG Meeting Minutes – 12/17/09

*Attendees: Jeff Mountain, Clinton Odom, Kristin Schaefer, Don Schuster, Bill Stiles, Stan Wilkins*

Meeting Location and Time: Posados Café from 11:30am-12:45pm

### President – James McClure (absent)

- No news to present

### President Elect – Stan Wilkins

- January meeting planned for tour of John Soule's Food is in jeopardy. Recent federal regulations prohibit visitors. Dick Cawley is working on a replacement program. S. Wilkins to follow up with Rhamy Morrison to see if he'd be willing to present his duct design presentation. James McClure has also agreed to doing a presentation on energy management for buildings.
- February meeting will be the E-Week banquet at Kilgore College. The March meeting will be a geothermal presentation at Estes, McClure, and Associates. Jeff Mountain verified that May's meeting will be held at Air Rover.
- There was discussion about moving the BOG meetings to another day of the

week. EMA employees have a hard time attending Thursdays because of a conflict with school board meetings. The BOG felt strongly that the meetings should be held in one place rather than rotate the meeting location month to month. It would be the current president's decision as to what location. The BOG also discussed moving it to another week separate from the day of the technical meeting. No decisions were made.

- President elect training is scheduled for February 6<sup>th</sup>, 2010 in Dallas. S. Wilkins is planning on attending. S. Wilkins will poll the rest of the BOG and any membership that would be interested in attending.
- The CRC is scheduled for April 22<sup>nd</sup>-24<sup>th</sup>, 2010 in Monterrey, Mexico. S. Wilkins is planning on attending. Rhamy Morrison is also attending but as Regional chair of Research Promotion. The East Texas Chapter will not get credit for him attending. S. Wilkins will poll the rest of the BOG and any membership that would be interested in attending.
- The chapter's officers and BOG have once again met the challenge of Full Circle contribution.
- There was discussion on how to increase interest in ASHRAE with our demographic. The chapter has struggled to recruit new members. Lately, the chapter's recruiting efforts have been focused on retaining its current members. It is becoming increasingly more difficult to rely on Trane and Carrier for support.

#### **Treasurer – Bill Stiles**

- B. Stiles has agreed to review the current status of the January meeting with John Soules. Since the meeting will be focused on the refrigeration system, the BOG feels the federal regulation will not be an issue.

#### **Membership Promotion – Kristin Schaefer**

- K. Schaefer has expressed interested in the Student Activities Chair for the 2010-

2011 year. K. Schaefer has also agreed to represent ASHRAE on the E-Week planning committee.

#### **Historian – Don Schuster**

- No news to present, but this month's mystery answer is "butter".

#### **BOG / Refrigeration – Dick Cawley (absent)**

- No news to present

#### **BOG / Research Promotion – Rhamy Morrison (absent)**

- No news to present.

#### **Membership Promotion – Clinton Odom**

- No news to present.

#### **Student Activities – Dr. Jeff Mountain (UT Tyler Adviser)**

- J. Mountain confirmed the May technical meeting will be held at Air Rover.

#### **BOG – Gene Branum (absent)**

- No news to present.

#### **New Business**

- No new business

#### **January Technical Meeting – TBD**

- To be confirmed with Dick Cawley. The chapter has a couple of options.

## **Refrigeration – What Would We Do Without It?**

I think most people react like me when there is a power failure in my home. The first thing I think about is the food in the refrigerator. Will the power be restored before the food is spoiled? Fortunately, we live in a day and age when refrigerators are well insulated and power companies, in general, are prompt and efficient so that we seldom lose food when the power shuts down. Note that personal discomfort is not nearly so important to me.

Our forefathers harvested natural ice for food preservation in the 1800s. From 1850 to 1920,

many types of refrigeration systems were invented and produced ice year-round. Refrigerants such as sulfur dioxide, methyl chloride, ether, carbon dioxide, and ammonia were used. There were other refrigerants such as wine and vinegar during this time period. Ice making plants grew larger using equipment that was mostly steam driven. Households stored ice (delivered daily) in 'ice boxes,' and storage temperatures were obviously limited to greater than freezing temperatures. Frozen foods were not practical. In the early 1900s, electric motors, controls, and other components were pulled together to produce the electric refrigerators that preceded the highly efficient, quiet, and dependable household refrigerators and freezers we take for granted today.

On the commercial side, ***literally tons of food are processed and preserved for shipment by air, sea, rail, and truck to warehouses and other storage facilities around the world.***

Refrigeration has played a vital role – in fact, the leading role – in preserving safe foods for our world of six and one half billion people. Granted, many people are starving today (and there are a lot of people working to improve that situation), but ***try to imagine how bad it would be if we didn't have refrigeration. Crops and meats are harvested in areas with productive resources, preserved, and shipped to all other places on the globe.***

The contributions made by refrigeration technology are not limited to food preservation. The following quotes are taken from 2004-05 ASHRAE President Ron Vallort's inaugural speech:

"Refrigeration continues to be used in other industries and enables science, technology, and medicine to perform everyday miracles that we have become accustomed to: vaccines provided worldwide; life giving blood, tissue and organ transplants; computer and chip technology. ***Refrigeration is the technology of survival and advancement.***"

Much can be said about the refrigeration engineers and technicians who invented,

advanced, and continue to improve refrigeration technology for a better world.

## Refrigeration - Technical Society Roots

Our engineering society, the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) was formed in 1959 by the merger of two engineering societies – the American Society of Heating and Air-conditioning Engineers (ASHAE), formed in 1895 as ASHVE, and the ***American Society of Refrigerating Engineers (ASRE), founded in 1905.*** Apparently, there was some reluctance to merge the two organizations; but the result has been quite rewarding. Each of the original societies had about 70-80 members at the beginning. ASHRAE now boasts about 55,000 members. I like to think the ASHAE group concentrated more on fluids (mostly air) and psychrometrics, while the ASRE organization's strength was in the thermodynamics of refrigeration. All practicing engineers – whether designing or specifying or working in HVAC or refrigeration – have to apply the technology that began, and has expanded dramatically, in both of the original organizations.

Every ASHRAE meeting continues to emphasize the "R" in ASHRAE, and at the society level a standing Refrigeration Committee is at work. Simply go to the technology tab on the ashrae.org website and click on refrigeration to view this committee's activity.

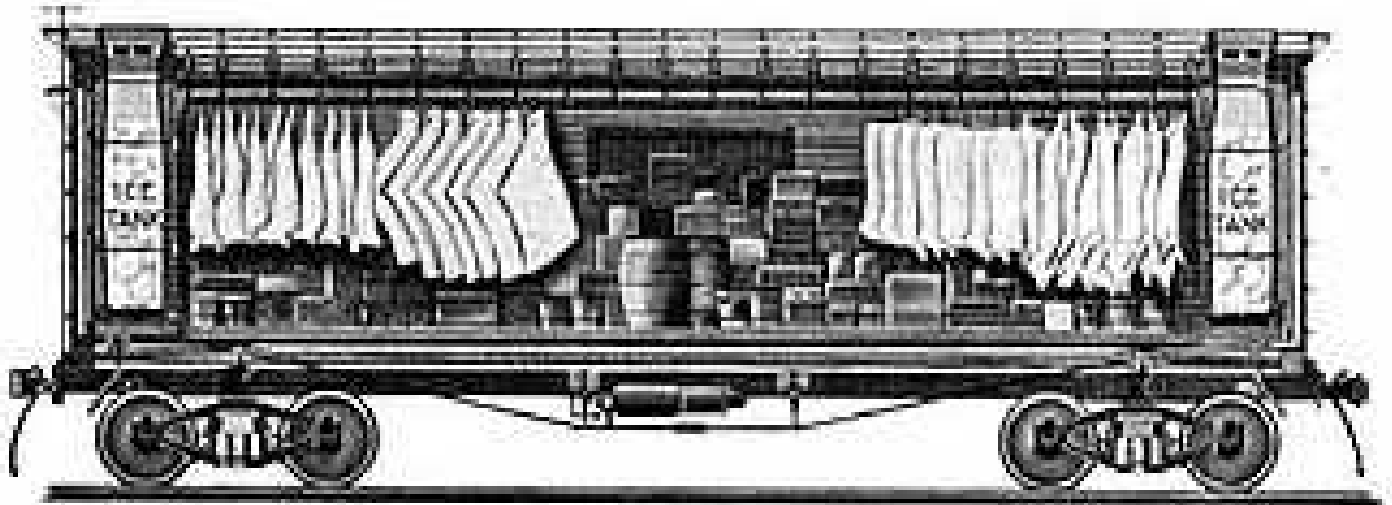
When the East Texas Chapter hosted the Region VIII CRC in April, 2004, we celebrated the centennial anniversary of ASRE by giving key chains to those in attendance. The key chains contained a brass disc that bore the original ASRE logo:



I hope we will always remember the original refrigeration society and its engineers. They gave us so much that we continue to improve with time.

Dick Cawley, P.E.  
Fellow-Life Member  
ET ASHRAE Board of Governors

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January ASHRAE History Mystery by Don Schuster  
Refrigerated cargo on the railroad made its maiden voyage in 1851. This happened when several tons of a commodity was shipped from Ogdensburg, NY to Boston Ma in a "refrigerator car." This railroad car was more of a rolling ice box than the modern refrigerated box car. Read-on to find out what delicious cargo treated Boston... answer appears hidden in newsletter



***East Texas Chapter***  
***ASHRAE MEETING***



**Getting Started:**  
**Energy Management for Buildings**  
by James McClure, P.E.

**Thursday, January 21, 2010**  
**11:15 a.m. to 1:00 p.m.**



**Location:**

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

**Meal:**

Hickory Fare BBQ with all  
the sides and fixin's, peach  
cobbler, and iced tea

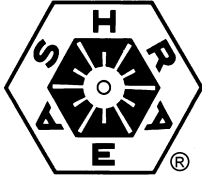
**Reservations are required. Meal \$12.00 if reservation  
received by Tuesday, Jan 19, cost after Tuesday is \$17.00  
Free to student members!**

Reservations: Sheri McLain (903) 581-3391; or email at [sheri.mclain@trane.com](mailto:sheri.mclain@trane.com)

**ASHRAE**  
**East Texas Chapter (091) 2009-2010**  
**Program Schedule**

Meeting	Date	Time	Presenter	Company	Location	Topic
September	Thursday 17th	11:15 – 1:00	K. Dale Beggs	Greenlife Technologies	Carrier 1700 East Duncan Tyler	Solar Energy Production
October	Thursday 15th	11:15 – 1:00	Loran Daley	Trane	Trane 6200 Troup Highway Tyler	EPA/NATE Certification
November	Thursday 19th	11:15 – 1:00	TBD	TBD	TJC west campus 1530 SSW loop 323 Tyler	AC Tech License Changes
December	17th	TBD	-BOG ONLY-	--	TBD	TBD
January	Thursday, 21st	11:15 – 1:00	James McClure, P.E.	Estes McClure	Trane Customer Visit Room	Energy Management for Buildings
February	TBD		TBD	TBD	TBD	TBD
March	TBD	11:15 – 1:00	TBD	TBD	TBD	TBD
April	TBD	11:15 – 1:00	TBD	TBD	TBD	TBD
CRC	TBD		TBD	TBD	TBD	TBD
May	TBD	11:15 – 1:00	TBD	TBD	TBD	TBD

I apologize for the missing information, I will fill it in for the remainder of the season after I confirm upcoming meetings at this months BOG meeting.



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