



Austin and San Antonio Chapter of the Association of Energy Engineers



May 2007



Volume 2, Issue 4

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ENERGY INDEX

- **AEE On-Line Training Courses:**
[*3D Load Profiling Using Interval Metering*](#)
[*Advanced Lighting Retrofit Options*](#)
[*Motors: Operation, Efficiency & Economics*](#)
[*LEED & Intelligent Buildings*](#)
www.aeecenter.org/training
- U.S. Department of Energy presents:
Energy Codes 2007
 July 24–27, 2007
 Pittsburg, Pennsylvania
 For More Information:
www.energycodes.gov

A Note From The President

Greetings fellow AEE chapter members !

After a slow start, it looks like summer temperatures are making their presence known. The moderate temperatures that we have enjoyed have certainly lessened the impact on our HVAC systems and our utility budgets!

We had a great turn out for the field trip to Austin Energy's Combined Heat and Power (CHP) facility at the Dell Children's Hospital. Prior to the tour, we enjoyed a great Chinese Buffet at the China Star Restaurant and a top notch presentation by Mr. Cliff Braddock of Austin Energy. The technology in use at this facility is truly cutting edge and a fine example of the efficiencies obtainable when trying to utilize all of the energy produced by the plant. Additional thanks go out to Wayne McKinzey and his staff for a great tour and for answering all of our questions.



At our monthly Board Meeting, several options for additional field trips and speakers were discussed. Keep an eye out on the website and newsletter for future presentations and field trips.

As mentioned last month, GLOBALCON 2008 is coming to the Austin Convention Center March 19th and 20th. Watch for more information in the future and please do consider participating and volunteering as a chapter member in this great event!

This month's presentation from our own Howard

Rogers will include an impressive history as a Certified Energy Auditor. Howard and his company have turned their focus over the last 15 years to energy saving design and construction techniques. I am looking forward to a very informative presentation!

Congratulations to chapter and board member Felix Lopez for his nomination as the AEE Region IV Energy Engineer of the Year...best wishes as you go through the process.

In closing, I would like to once again thank each and every one of you for your continued support of our chapter. I invite you to be involved, get those friends and colleagues to join us at our meetings to explore and share new and innovative ideas in Energy Engineering!

See you in San Marcos!

Sincerely,

Bruce

Bruce Dschuden, CEM
Chapter President



May Presentation

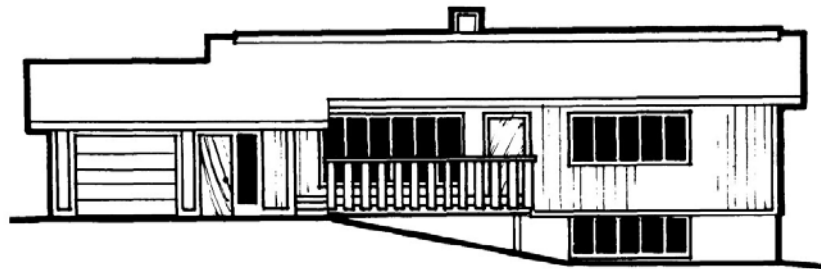
Energy Efficiency In Homes

A major contribution to modern day energy efficient homes began in Little Rock, Ark in the mid-60s. The local power company and a group of home builders started looking at FHA Minimum Property Standards (the principle construction guide in those days) to determine how they might be improved to create a more energy efficient home. Their efforts resulted in a 60% drop in energy usage and a more comfortable home. The project came to be known as "The Arkansas Story".

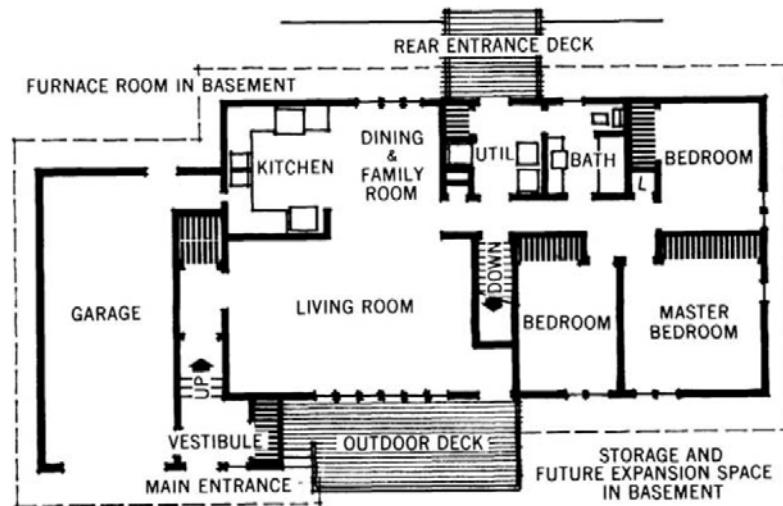
The past 40 plus years have seen the development of equipment and methods that we could only wish for in the 60s. This presentation will cover a brief review of "The Arkansas Story" and of the improvements now available along with a discussion of how those improvements can be used and the performance results. Most will find this coverage different from the routine views.

(This could be sub-titled-"Prerequisites for an Off Grid Residence". When the energy usage drops by 2/3rds or more, alternative energy sources become more doable.

"When the energy usage drops by 2/3rds or more, alternative energy sources become more doable."



FRONT ELEVATION



FLOOR PLAN

May Presenter

Howard G. Rogers

Howard G. Rogers began a quest for “energy conservation” in 1956 when his summer employers asked him to look at reducing their natural gas usage. With 2 years pre-engineering and a lot of luck, along with the 2 months wages and \$29.00 needed to finance the project, he reduced the usage by 25% or 3,300 Mcf/month, improved product quality and reduced process time. The quest continued. On a project 30 years later, the ultimate usage was 15% of the original.

In 1976, Rogers’ new “Energy Consultants” company (later, Rogers Utility Consultants, Inc.) began performing energy cost reduction projects on commercial and industrial facilities. Projects included a complete review of how utilities were purchased

and used, with paper and/or physical changes needed. The energy audit was the primary diagnostic tool for a successful project. When the Texas Comptroller started requiring energy audits for sales tax exemptions, the Rogers group was one of the few with energy audit experience. Predominant use utility studies were added to the tool kit.

Over the past 15 years, much of the focus has shifted to energy saving design and construction with marked success.

Simply stated, Rogers Utility Consultants (Howard and Mark Rogers) is in business to reduce utility cost by whatever means.

Howard G. Rogers, B.S. Engineering/UT Austin 1958, Certified Energy Auditor

KNOW YOUR BOARD KNOW YOUR BOARD

By Frank Thomas, CEM

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Linda Richard	Programs
Sul Rodriguez	Scholarships

Mark Krawczyk is a Facilities Engineer at Freescale’s Oak Hill plant in Austin. He has 20 years of engineering experience including design, supervision and energy management. He joined Freescale in 1993 and served in a variety of roles supporting manufacturing operations in Austin. He was instrumental in driving Freescale’s gross margin growth as the leader of Austin Utility Conservation Team in 2003-04 and Corporate Energy Team in 2006. Mark earned his BSME degree from Monash University in Melbourne, Australia



Vice President - Mark Krawczyk.

Education - BSME degree from Monash University in Melbourne, Australia

Presentations/Field Trips 2007

The following speakers, presentations, and field trips are scheduled for upcoming meetings:

- June: Austin Clean Air Initiative/Energy Conservation
 July: Viability of Commissioning in Public Schools (Tentative)
 August: Field Trip (Tentative)
 September: LEED Program (Tentative)

Do you have any ideas for future topics, speakers, or field trips? Please contact Linda Rickard
Linda.Rickard@AustinEnergy.com

Job Posting

Austin Energy has an opening for:

Graduate Engineer B, Power Saver Program

Description: Commercial energy conservation and demand side management support. Knowledge of energy conservation and DSM technologies. Strong Customer service, ana-

lytical, writing, and spreadsheet skills desired.

For additional information contact :

Scott Jarman - Austin Energy

Scott.Jarman@austinenergy.com or 512-482-5307

Understanding Engineers...Take Four

Scientists at NASA have developed a gun built specifically to launch dead chickens at the windshields of airliners, military jets and the space shuttle, all traveling at maximum velocity. The idea is to simulate the frequent incidents of collisions with airborne fowl to test the strength of the windshields.

British engineers heard about the gun and were eager to test it on the windshields of their new high speed trains. Arrangements were made, and when the gun was fired, the engineers stood shocked as the chicken hurtled out of the barrel, crashed into the shatterproof shield, smashed it to smithereens, crashed through the control console, snapped the engineer's backrest in two and embedded itself in the back wall of the cabin.

Horrified Britons sent NASA the disastrous results of the experiment, along with the designs of the windshield, and begged the U.S. scientists for suggestions. NASA's response was just one sentence, "THAW THE CHICKEN!"



Newsletter Comments? Contact:

Bruce Dschuden at brucedschuden@nisd.net

Frank Thomas at frankthomas@nisd.net



2007 Officers

Bruce Dschuden	President	brucedschuden@nisd.net
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Our Mission:

- ◆ Advance the professional careers and the common purposes of its members. Facilitate networking, social exchange and training.
- ◆ Present and discuss energy, environmental topics, and members' ideas. Stay abreast of fast changing developments. Anticipate their future.
- ◆ Disseminate information to the trade and to the general public via meetings, publications, trade shows and presentations.
- ◆ Build an exciting, expanding chapter
- ◆ Cooperate with other AEE chapters and related organizations.
- ◆ Promote energy efficiency.
- ◆ Promote renewable resources

We're On The Web!!

www.txaee.org

May Chapter Meeting

May 22, 2007
 "Energy Efficient Residential Design"
 Logans Roadhouse
 San Marcos, TX
 512.805.8889
 (See WebSite for Map)



MEMBERSHIP INVOICE



Austin/San Antonio Chapter of the Association of Energy Engineers

<http://www.txaee.org>

Date

Local Chapter Dues for 2007

\$ 20.00

Please fill out the following information.

Name: _____

Company: _____

Address: _____

City/State/Zip: _____

Business Phone: _____

FAX: _____

E-mail Address: _____

Suggested Speaker Topic or Tour: _____

Chapter meetings typically are held the 4th Tuesday of each month at 11:30 a.m. Location for the meetings is posted on the Austin/San Antonio AEE Web Site

<http://www.txaee.org/calendar.htm>. Look forward to informative, professional, and educational presentations in the energy field, plus field trips to various locations in Austin and San Antonio.

Remit to: Austin AEE
PMB 287
815-A Brazos Street
Austin, TX 78701-2509

*For inquiries regarding this invoice please contact:
Felix Lopez (Austin) at 512-463-1080 or felix.lopez@cpa.state.tx.us or
Brian Keller (San Antonio) at 210-496-3100 or brian.keller@eeengineers.com*

Amount Paid _____
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