



Austin and San Antonio Chapter of the Association of Energy Engineers



April 2008



Volume 3, Issue 3

A Note From The President

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Earth Day April 22, 2008

Greetings fellow AEE chapter members!

Spring is my favorite time of the year and it is flying by! I can hardly believe it's been almost a month since the Globalcon event.

Many of us participated in this show, which was attended by over 2,400 professionals representing all of the market segments in the energy field. At the expo, there were a variety of energy efficiency, clean energy and renewable technologies on display. Our booth was very good for us and gave us a lot of exposure. Many who stopped at the booth were interested in the work of our Chapter. I expect to see new members at our future meetings! The Texas State Chapter Luncheon featured presentation by Al Thumann on Green Buildings and the AEE Programs. It was impressive to learn about



the energy efficiency infrastructure provided by the AEE around the world. This was followed by a great performance of Texas Music Hall of Fame inductee Freddie Steady Krc. I want to express my sincere appreciation and thanks to everyone that had a hand in the planning and conducting of both events hosted by our Chapter jointly with the North Texas and Lone Star Chapters.

Our Board met with other officers to exchange information and ideas on how to strengthen the chapters. We are commit-

ted to bringing quality program to you and we need your input on what you would like to see at our future meetings! I invite you to get involved by providing your ideas on interesting topics, speakers and fieldtrips.

Our April meeting will feature a presentation on Flywheel UPS by David Perkins of Active Power. Some additional information can be found in this newsletter and our website. I hope to see you next week.

Thank you for your continued support and see in San Marcos!

Sincerely,

Mark Krawczyk, PE, CEM

Chapter President

April Presenter



David Perkins

David Perkins is Chief Technical Officer for Active Power, Inc. and has been involved in the development of energy storage and power conversion technologies since 1985. He joined Active Power in 1996 and led several teams during commercialization of the company's DC flywheel, integrated flywheel UPS, and thermal and compressed air storage technology. Prior to joining Active Power, Mr. Perkins was a research engineer with The

University of Texas at Austin Center for Electromechanics and managed advanced power system development projects for commercial and military applications. He holds BS and MS degrees in Mechanical Engineering from the University of Texas at Austin and five patents with several patents pending.

“ Reliability and energy efficiency - these are two features of uninterruptible power supplies (UPS) that must be achieved without compromise”

April Presentation

Flywheel UPS Update

Reliability and energy efficiency - these are the two features of uninterruptible power supplies (UPS) that must be achieved without compromise. Ironically, the lead-acid batteries that have driven the architecture of legacy UPS systems results in less than optimum performance in both areas. New UPS technology based on flywheel energy storage, has significantly

lower power conversion loss and achieves electrical efficiency up to 98%. Furthermore, a recent study has shown that the flywheel UPS is seven times less likely to fail in the majority of power disturbance events. Mr. Perkins will review the key advantages of integrated flywheel UPS showing how these systems will save money, contribute to a cleaner environment, and provide the electric power continuity that is needed for mission-critical applications.



<http://www.activepower.com>

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2008

Fifteen Texas Plants Recognized for Significant Energy Savings

April 9, 2008

HOUSTON, Texas -- Texas Industries of the Future, a component of The University of Texas at Austin's Cockrell School of Engineering, honored 15 Texas plants Wednesday in Houston for their energy-saving efforts as part of the U.S. Department of Energy's Save Energy Now initiative.

"Seeing progress in energy efficiency is important for the environment, the Texas economy, and U.S. industrial competitiveness" said Kathey Ferland, project manager for Texas Industries of the Future, which seeks to reduce industrial energy usage and emissions. "All types of sites participated in the assessment program, which demonstrates that industry, large and small and from sectors as diverse as food processing to medical appliances to chemicals, are looking at how to improve their energy performance."

The plants were recognized by the U.S. Department of Energy and the Texas State Energy Conservation Office. This recognition coincided with the 500th Save Energy Now Assessment completed by the U.S. Department of Energy under the energy-saving program. The 500th assessment site, the Dow Chemical Company site in Freeport, received a special acknowledgement for the milestone distinction.

The 15 sites combined saved 1.1 trillion Btus per year from their actions. Twelve were classified as "Savers," meaning they saved greater than 7.5 percent of their total energy or 75,000 million Btus, and three were designated as "Champions," plants that saved greater than 15 percent of their total energy or 250,000 million Btus.

"Programs like these will reduce the demand for natural gas by industry, which can result in lower demand for natural gas overall, which benefits all consumers," said Dub Taylor, director of the Texas State Energy Conservation Office. Other speakers at the event included Texas Secretary of State Phil Wilson and Fred Moore, Dow Chemical's global director of manufacturing and technology.

See Plants Recognized/4

Plants Recognized... Continued from 3

Texas Industries of the Future recruited plants for the assessments and continues to partner with the U.S. Department of Energy on developing new energy-saving programs for manufacturers, Ferland said.

The plants classified as "Savers" include: Custom Rubber Products, Inc., Flexible Foam Products, Groth Corporation,

Hampson, Honeywell, the Houston Chronicle, MeadWestvaco, Osteomed, Sunoco-Bayport, Texas Petrochemicals LP - Houston Plant, Trelleborg CRP and Tyson Foods, Inc. The three "Champions" are: Dow Chemical Company-Power 6, the Houston Chronicle - SW Printing Plant and NBGS International.

For more information, contact Kathey Ferland at 512-565-3774.

Presentations/Field Trips 2008

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

April: Flywheel UPS Update

May: Geothermal Energy: It's Importance for Electrical Power Conservation and Generation in an Energy Transitional Society

To Be Scheduled: Lighting Retrofits

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

Now being Accepted...Annual Dues!



Membership Dues for 2008 are now being collected. Annual chapter dues are \$20...quite the value when you consider all of the information, exposure to new technology, tours, and camaraderie with your fellow professionals you receive!! Please complete

form in this newsletter and bring it to the next meeting or mail in with payment to address noted on form. For your convenience you now have the option to pay local when you renew your national dues...more details to follow in May issue.

Understanding Engineers...Take 3

Salesmen (Engineers Will Love This)...

An enthusiastic but somewhat unscrupulous salesman was waiting to see the purchasing agent of an engineering firm. The salesman was there to submit his company's bid, or price quote, for a particular job. He couldn't help but notice, however, that a competitor's bid was on the purchasing agent's desk.

Unfortunately, the actual figure was covered by a juice can. The temptation to see the amount quoted became too much, and the salesman reached over and lifted the can. His heart sank as he watched thousands of BB pellets pour from the bottomless can and scatter across the floor.



Newsletter Comments? Contact:

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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!!



April Chapter Meeting

April 22, 2008

“Flywheel UPS Update”

Grin's Restaurant

San Marcos, TX

512.392.GRIN

(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 2008 **\$ 20.00**

New Member

Renewal

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
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Karma Nilsson at 210-353-2815 or knilsson@cpsenergy.com*

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