



Austin and San Antonio Chapter of the Association of Energy Engineers



October 2008



Volume 3, Issue 8

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ENERGY INDEX

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A Note From The President

Greetings once again fellow AEE chapter members and supporters!

The *end* of year is approaching quickly as we have been working hard to improve our energy efficiency and offset the impact of economic slowdown. Freescale is one of five companies selected to participate in Texas pilot of a national plant certification program for energy efficiency. The project is funded by the United States Department of Energy and the Texas State Energy Conservation Office. It is coordinated by the Texas Industries of the Future program, located at the University of Texas at Austin. We will share more information about the pilot in one of our future meetings.

I would like to thank Bob Nelson of CPS Energy and Jim Neeley of the State of Texas Facility Commission for their presentations on lighting retrofits. CPS Energy, in partnership with the Northside Independent School District, recently announced the comple-



tion of a pilot program designed to assist school districts in retrofitting their campuses with energy-efficient lighting. The energy-saving fixtures, ballasts and bulbs improve lighting for students, use less energy and create less heat to reduce air-conditioning use. The program was initiated by the Northside ISD's energy managers, Bruce Dschuden and Frank Thomas, each of whom have served as our Chapter President in recent years. Great job Bruce and Frank!

It is time to elect officers for 2009. If you would be willing to serve the Chapter as an officer or Board member, please refer to this newsletter for additional information. Elec-

tions will be held in November so that our new officers can assume their roles on January 1st. Please get involved and exercise your right to vote!

This month we will be touring Munters Plant in Selma, TX. Please check this newsletter and our website for information about Munters and directions to the plant. The tour will begin at 11:30 AM.

In closing, I would like to thank each and every one of you for your continued support to our chapter. See you next week!

Sincerely,

Mark Krawczyk, PE, CEM

Chapter President

Octobers Field Trip

Munters Corporation

Solving the Energy Crunch by use of Desiccant and Energy Recovery Technology

Company:

In March of 2007, Munters purchased Des Champs Technologies. In doing so, Munters added the world of air-to-air energy recovery solutions to its already well respected list of Desiccant Technology Products. From that acquisition, a new Hybrid dedicated Outside Air Unit was created called the DryCool-ERV. This unit combines the energy recovery with a self reactivating desiccant process to produce the most energy efficient ventilation air system on the market. This product can reduce a building's ventilation air energy use by up to 65% while at the same time providing superior indoor air quality and moisture control.

Presenter:

Scott McGinnis, *Regional Sales Manager, Munters Corp*

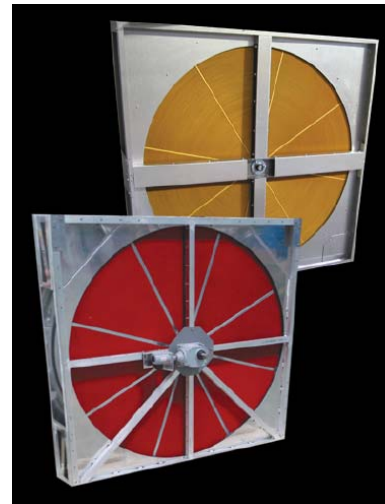
Scott has been designing and selling custom energy recovery and dehumidification air handling systems for the past 12 years for applications throughout North America. He holds a BS degree from Texas A&M and has worked for York, Engineered Air, Des Champs and Munters. He resides in Katy, TX and is an active member of ASHRAE.

Technology:

The Munters DryCool ERV product combines the benefits of desiccant dehumidification with total energy recovery. The unit supplies 100% make up air utilizing energy recovery from the exhaust air stream. Packaged direct expansion cooling is included to provide a complete conditioning system. The unit provides space neutral leaving temperature. Dehumidification capacity is controlled by a space humidistat.

The DryCool ERV's unique desiccant dehumidification process is the most efficient dehumidification method commercially available. It eliminates the inefficient over cool reheat process utilized by the vast majority of dehumidifiers. It also allows for the cooling coil to operate at higher temperatures, increasing refrigeration efficiency and eliminating coil freezing concerns. The result is a very efficient dehumidification cycle that can provide lower delivered dew points. The addition of enthalpy energy recovery to this dehumidification system provides for reduced heating and cooling requirements in the

treatment of the delivered outside air. The resultant heating and cooling requirements are significantly lower than otherwise required. The system includes a direct expansion refrigeration system with cooling coil, integrated condensing package, desiccant wheel, enthalpy wheel, supply fan, and exhaust fan. Heating options include indirect fired gas, electric resistance, hot water, and steam. The system controls humidity in the space and has optional night setback and remote monitoring. The units can be installed indoor or outdoor with no requirement for split system conditioning, chilled water or condenser water. System sizes range from 1,000 to 16,000 cfm. *(Continued on next page)*



To Learn More , Click on Logo

(Continued from Page 2)

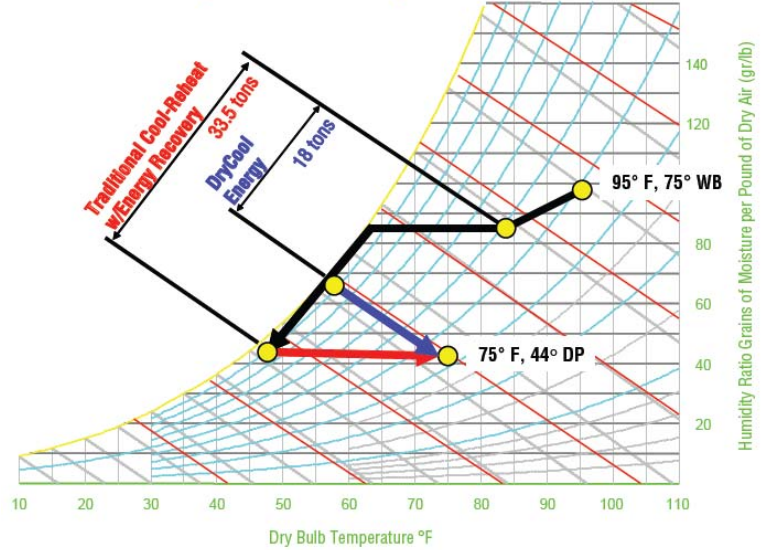
DRYCOOL ERV

Desiccant Dehumidifier

Benefits

- Energy efficient
- Delivers low dew point
- Energy recovery in winter
- Provides make up air
- Avoids cool – reheat
- Dry, healthy duct work
- Increases cooling COP

The Most Efficient Dedicated Outdoor Air System
DryCool ERV 6000 Operating Example



6000 cfm entering at 95°F db, 75°F wb, the DryCool ERV uses 18 tons to deliver 75°F db at 44°F dp
Traditional cool-reheat with energy recovery uses 33.5 tons to deliver the same conditions

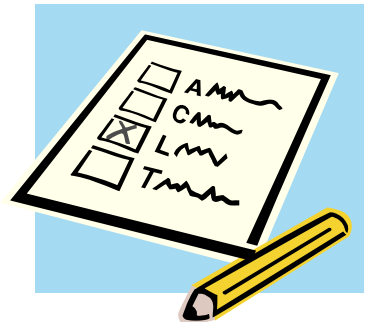


Officer Elections 2009

Elections will be held for chapter board of directors in December. Currently all members have agreed to serve again for the upcoming year. There are openings for the office of Vice President and Scholarship. If you are interested in serving as Board Meeting or on any committees that may be needed during 2009, please contact Bob Nelson at 210-353-3591 or ROCNelson@cpsenergy.com. by November 21, 2008. Your participation helps to keep the momentum going and insures quality programs/activities for our membership!

The current slate of officer candidates to serve on the Board of Directors for 2009 is as follows:

- President - Michelle Noriega
- Past President - Mark Krawczyk
- Vice President - **OPEN**
- Treasurer - Karma Nilsson
- Membership (Austin) - Felix Lopez
- Membership (SA) - Brian Keller
- Communications - Frank Richards
- Webmaster/Newsletter - Bruce Dschuden
- Programs - Linda Rickard
- Scholarships - **OPEN**



Presentations/Field Trips 2008

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

- October: Munters Plant Tour and Lunch; Selma, TX
 November: Green Roof Tour; Lady Bird Wildflower Center; Austin, TX
 December: How to Survive the PE Audit - End Of Year Luncheon

Do you have any ideas for future topics, speakers, or field trips? Please

contact Linda Rickard Linda.Rickard@AustinEnergy.com

What's For Lunch??



For our Munters tour, how about a delicious plate of "The World's Worst BBQ" for lunch?? For those of you who know your BBQ, all that needs to be said is catering from Rudy's BBQ will be available. If you are interested in eating prior to the tour the cost will be \$15, payable at the meeting. A separate notification and RSVP is being sent out to membership for this event.

Understanding Engineers...Take 8

Murphy applied for an engineering position ...

Murphy applied for an engineering position at an Irish firm based in Dublin. An American applied for the same job and both applicants having the same qualifications were asked to take a test by the Department manager. Upon completion of the test both men only missed one of the questions. The manager went to Murphy and said.

Manager: "Thank you for your interest, but we've decided to give the American the job"

Murphy: "And why would you be doing that? We both got nine questions correct. This being Ireland and me being Irish I should get the job!"

Manager: "We have made our decisions not on the correct answers, but on the question you missed."

Murphy: "And just how would one incorrect answer be better than the other?"

Manager: "Simple, the American put down on question #5, "I don't know.", You put down "Neither do I."



Newsletter Comments? Contact:

Bruce Dschuden at brucedschuden@nisd.net

Frank Thomas at fthomas1@satx.rr.com



2008 Officers

Mark Krawczyk	President	Mark.Krawczyk@freescale.com
Bruce Dschuden	Past President	Bruce.Dschuden@nisd.net
Michelle Noriega	Vice President	Michelle.Noriega@austinenergy.com
Karma Nilsson	Treasurer	knilsson@cps-satx.com
Felix Lopez	Membership (Austin)	felix.lopez@cpa.state.tx.us
Brian Keller	Membership (San Antonio)	brian.keller@goetting.com
Frank Richards	Communications	Frank.Richards@austinenergy.com
Robert Spiegel	Webmaster	Rspiegel@ieee.org
Linda Rickard	Programs	Linda.Rickard@AustinEnergy.com
Sid Rodriquez	Scholarships	isidro.rodriquez2@austinenergy.com

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!!



October Chapter Meeting

October 28, 2008

11:30 am

"Munters Tour"

Munters Plant

16900 Jordan Road

Selma, TX

Lost??.Need Directions??.Please Call:

512.680.8837

(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
 Discount AEE International
(Attach Coupon to this Form)

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

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