



The Razorback Report

www.arkansasashrae.org

Volume XXIII, Issue 6, February 2012

Arkansas Chapter Newsletter for the American Society of Heating, Refrigerating, and Air-Conditioning Engineers, Inc.

FEBRUARY MEETING

Central Arkansas

Date: Wednesday, February 1

Location: Camp Aldersgate

Cost: \$20

Schedule:

10:30a.m. Board Meeting

11:30a.m. Lunch / Technical Session

12:00-1:00p.m. Program

Northwest Arkansas

Date: Thursday, February 2

Location: AQ Chicken—Springdale

Cost: Free (lunch extra)

Schedule:

11:30a.m. Lunch

12:00-1:00p.m. Program

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THE PRESIDENT'S MESSAGE

By Bill Simpson

This month's newsletter (and President's Message) comes to you on the heels of a very exciting ASHRAE Winter Conference and AHR Expo in Chicago. This year's expo was the largest in history with over 2,000 HVAC&R manufacturers exhibiting, many of which showed off new technology that promises to make significant impacts to our industry in the near future. Hopefully many of you got to take advantage of the social and professional opportunities offered in Chicago. If you missed it though, don't forget that the technical sessions can be viewed on ASHRAE's website for a nominal fee.

At the President's luncheon, President Jarnagin continued his theme of Lead to Sustain. Along those lines, our Chapter is currently in the process of identifying our future leadership. The nominating committee is well underway toward recommending the next slate of officers and President-Elect Mike Fullerton is working to complete his list of committee chairs for the 2011-12 ASHRAE year. If you're interested in contributing or know someone who would be a good addition, please let Mike know.

Continuing along the lines of developing our future leaders, the Scholarship Committee as headed by Forrest Moseley recommended a worthy group of scholarship recipients at the January Board of Governors meeting and the chapter leadership approved the recommendation to award scholarships as follows: **Michael Earls** (ASU), \$1,000; **Jason Blair** (UofA), \$750; **Steven Browning** (ATU), \$750. Congratulations to these deserved

group of Arkansas engineering students. Formal presentations will be made at an upcoming meeting.

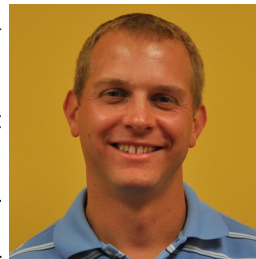
Many of you probably saw the announcement regarding a rebranding of our Society. To reflect ASHRAE's global presence and emphasis on total building design, reconstruction, construction and operation as opposed to solely HVAC&R, society unveiled a fresh new logo, changed the tagline and elected to do business as strictly ASHRAE versus using the full legal name of the American Society of Heating, Refrigerating and Air-Conditioning Engineers. The new tagline is "Shaping Tomorrow's Built Environment Today".

Thanks to everyone who came to our January joint meeting with CSI in Central Arkansas. The attendance was one of our highest ever for a meeting. This month's meeting promises to be interesting as well, with Jon Lye presenting the basic steam engineering principles.

In addition, we have a couple continuing ed opportunities coming up soon. The first will be a tour of the Arkansas Multi-Agency Complex (MAC) mechanical systems on February 23. Then, on April 19th our chapter will host the ASHRAE broadcast on Dedicated Outdoor Air Systems (DOAS) at Harrison Energy Partners.

On the social front, Tony DeMarco is organizing a poker tournament on January 31 to benefit our Chapter's Research Promotion efforts. The poker tournament will also be held at Harrison Energy Partners.

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MONTH	MEETING TOPIC	SPEAKER	SECTION	DATE	LOCATION	MEETING DESIGNATION
SEPT	Bio-renewable Fuels	Tim Gorman	Central	09.07.11	Camp Aldersgate	Sustainability
			NWA	09.08.11	AQ Chicken	
OCT	Public Service Commission	John Bethel	Central	10.12.11	Camp Aldersgate	TBA
	ASHE Energy Survey for Hospitals	Clark Reed	NWA	10.14.11	Washington Regional Medical Center	Joint Meeting with ASHE
NOV	UV-C for Controlling Mold in AHUs	Dean Saputa	Central	11.02.11	Camp Aldersgate	Indoor Air Quality / Membership Promotion
			NWA	11.03.11	AQ Chicken	
DEC	Sustaining ASHRAE Through Leadership	Ron Jarnagin	Central	12.07.11	Camp Aldersgate	Student Meeting
			NWA	12.08.11	AQ Chicken	
JAN	NEBB Educational & Training Outreach	Tom Hanlon	Central	01.04.12	Camp Aldersgate	Continuing Education
			NWA	01.05.12	AQ Chicken	
FEB	Basic Steam Engineering Principles	Jon Lye	Central	02.01.12	Camp Aldersgate	TBA
			NWA	02.02.12	AQ Chicken	
MAR	Energy Dashboards	Phil Smith	Central	03.07.12	Camp Aldersgate	TBA
			NWA	03.08.12	AQ Chicken	
APR	ASHRAE 62.1/90.1 Update	Hamid Habibi	Central	04.04.12	Camp Aldersgate	TBA
			NWA	04.05.12	AQ Chicken	
MAY	Past President's Night	N/A	Central	TBA	TBA	Past Presidents Recognition
			NWA	N/A	N/A	

ARKANSAS CHAPTER MEETING MINUTES

Board Meeting of December 7, 2011

Mark Mizell—Secretary

Members Present: Steve Keen (Research Promotion, Delegate), Russell Black (Board of Governors), Bill Goodman (Board of Governors), Bill Simpson (President, Alternate), Mike Fullerton (President-elect, CTTC Chair), Marlon Joiner (Treasurer), Mark Mizell (Secretary), Forrest Mosely (Student Activities Chair), Terry Jacks (Membership Promotion), Robin Sipes (Electronic Communications Chair), Mark Eley (Reception), Jake Skinner (Historian), Jay Holstead (Sustainability Chair)

Call to Order: 10:30 a.m.

President's Report—Bill Simpson:

- Currently in third place for PAOE points. We've met par in all categories except Research Promotion.
- Winter Meeting and AHR Expo is January 21-25 in Chicago.

- Encourage coworkers to attend CRC. It's a good opportunity to build leadership skills and train officers.

President-elect / CTTC Report—Mike Fullerton:

- There will be a tour of the MAC building on February 23rd. Lunch will be provided.
- Chapter Information Questionnaire is due Feb. 15.
- There will be a three-hour webcast on DOAS on April 19th and Harrison Energy Partners.

Treasurer's Report—Marlon Joiner:

- Profit and Loss Budget vs. Actual Report presented.
- Need to close NWA checking account.
- Need to set aside CRC funds.
- Need to digitize old records.

- Taxes are filed.

Secretary Report—Mark Mizell:

- The previous meeting's minutes were posted in the last newsletter.
- December minutes approved by acclamation.

Social Committee Report:

- There will be a poker tournament January 31st at 7:00 p.m. at Powers of Arkansas. An email invitation will be sent.

Student Activities Report—Forrest Moseley:

- Three scholarship applications were received and reviewed by the Scholarship Committee.
- Scholarship Committee recommends issuing \$2,500 in collegiate scholarships and contributing \$500

(Continued on page 4)

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PRESIDENT'S MESSAGE

(Continued from page 1)

Finally, just another friendly reminder that CRC is coming up in Tulsa April 26-28. Let's make a great showing at CRC as this is a great opportunity to see what other successful chapters are doing as well as serving as the venue to make motions to be carried to Society.

Please take advantage of all the great opportunities coming up. Look forward to seeing everyone next week. ☼



TECHNOLOGY AWARDS

Michael Fullerton—CTTC Chair

Do you have a project that might qualify for a technology award? The technology awards are broken into 6 main categories. The categories are as follows: Commercial Buildings, Institutional Buildings, Health Care Facilities, Industrial Facilities, Public Assembly, and Residential. Submitting an award on behalf of one of your clients is a great way to gain publicity for you and the owner. If you have a project that you would like to submit, please contact either Tom Hanlon or Michael Fullerton at 501-666-6776. A copy of the application form is attached to this newsletter. Feel free to use me as a resource for filing the application. Let's make this year the best year for ASHRAE technology awards.

A DECADE AGO IN ARKANSAS ASHRAE HISTORY

Jake Skinner—Historian

February 6th, 2002, the Arkansas Chapter was scheduled to meet for a lunch meeting at the Little Rock Club in the Regions Bank Building downtown. However, the meeting was cancelled due to inclement weather. The Northwest Section enjoyed an informative presentation on "DDC Systems and BACnet" led by Mr. Todd Cowles with Alerton Technologies. The Chapter was also gearing up for Engineer's Week, which was held from February 17th - 23rd. On February 14th, Governor Mike Huckabee formally announced Engineer's Week in a gubernatorial proclamation written by our own Chris Ahne.

MEETING MINUTES

(Continued from page 3)

to the State Science Fair to go to high school scholarships.

Motion by Mike Fullerton (seconded by Russell Black):

- The Chapter will issue collegiate scholarships as follows: \$1,000 to Michael Earls, \$750 to Steven Browning, and \$750 to Jason Blair. The Chapter will contribute \$500 to the State Science Fair to go to high school scholarships.
- Motion passes unanimously.

Membership Promotion Report—Terry Jacks:

- We are still low in dues delinquency - less than 5%.
- Two members have been upgraded from associate to full member status.
- One new member from Ft. Smith has joined the chapter.
- No need for Constant Contact. Society maintains the roster and contact information.

Website—Robin Sipes:

- The President's Message has been updated and December's meeting minutes incorporated on the website.

Reception—Mark Eley:

- Carpool raffle tickets will be passed out today.

Sustainability—Jay Holstead:

- Jay presented information about a vendor who provides disposable utensils, plates, and napkins that are biodegradable. He and Mike Fullerton (chapter programs) will find out if they are something our caterer can work with.

Newsletter Report:

- Newsletter article deadline will be January 20th.

Historian—Jake Skinner:

- Got pictures for the website.

Constitution and Bylaws Committee—Russell Black:

- There will be a committee meeting the evening of Monday, January 9th.

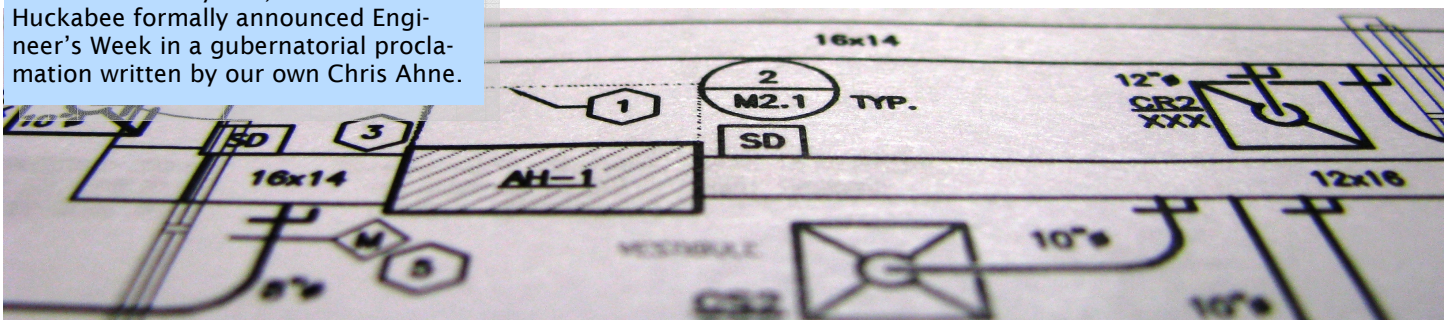
Adjourn: 11:20 a.m.

Chapter Meeting Minutes:

Open: 11:30 a.m.

- Bill Simpson thanks CSI people for joining us.
- MAC tour, DOAS webinar, new member, and poker tournament are announced.
- Tom Hanlon, Bill Harrison, and Angeli Kuli present on NEBB's Accredited Associate and Certified Professional programs and the "Key to Effective Commissioning".

Adjourn: 1:00 p.m. ●



April 19, 2012/1:00 PM-4:00 PM EDT

**Dedicated Outdoor Air Systems:
A Path to Balancing Energy and IEQ**

www.ashrae.org/doaswebcast





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TECH TIP: COMMISSIONING DIAGNOSTIC TOOL

Michael Fullerton—CTTC Chair

Have you ever been to a job site and tried to figure out how much airflow the unit was producing? Piezo rings and other airflow measuring devices mounted on the fans can be an inexpensive diagnostic tool. I would recommend the AHU manufacturer to laminate the flow characteristic chart associated with the fan and the piezo ring on the side of the unit. A further step would be to have the controls contractor provide a digital readout on the side of the unit. Providing these airflow measuring devices will help the TAB contractor verify his duct traverses. The owner will also be able to tell when his belts are starting to slip or a damper is starting to fail. Some airflow measuring devices can cause an increase noise level at the fan. Make sure you keep this in mind when you select the type of air flow measuring device.

STUDENT ACTIVITIES

Forrest Moseley—Chair

E-Week (February 19th-25th) is approaching quickly, and it has always been a great tradition among the engineering community and ASHRAE. Chris Greer and Zac Buckmiller are looking to bring the excitement of engineering to the K-12 classrooms in Central Arkansas during E-Week. They are currently in the process of setting up contacts with K-12 schools in the area. If you know of anyone for them to contact or would like to volunteer your time in the community, please contact cgreer@tmecorp.com or zbuckmiller@tmecorp.com.



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FUTURE ASHRAE MEETINGS:

**2012 Region VIII Chapter
Regional Conference**
April 26-28
Tulsa, OK

2012 ASHRAE Annual Conference
June 23—27
San Antonio, TX

The Razorback Report is published monthly by the Arkansas Chapter of ASHRAE. Statements made in this publication are not expressions of the Society or of the chapter and may not be reproduced without special permission from the chapter.

2010-2011 CHAPTER OFFICERS

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Bill Simpson (CRC Alternate)	wsimpson@trane.com

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THE RAZORBACK REPORT

ARKANSAS CHAPTER OF ASHRAE
P.O. Box 180
LITTLE ROCK, AR 72203

ARE YOU FEELING LUCKY?



IF SO, COME AND TRY
YOUR HAND AT THE
ASHRAE
TEXAS HOLD'EM
TOURNAMENT.

Tuesday, January 31, 2012

6:00 PM

TRANE OFFICE:
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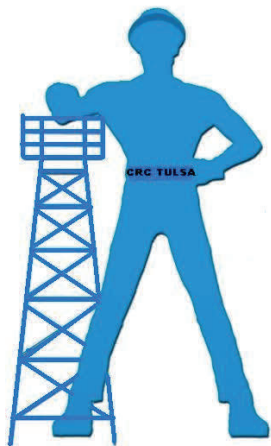
\$50 DONATION BUY IN

ASHRAE MEMBERS MAY BRING A GUEST

BYOB- PIZZA WILL BE PROVIDED

**SPACE IS LIMITED TO THE FIRST 30 PLAYERS
REGISTER ASAP FOR MORE DETAILS**

Tony DeMarco 501-680-0589 or
tony@airetechcorp.com



2012 CRC
Region VIII
Tulsa, OK

2012 ASHRAE Region VIII CRC

April 26th—28th, 2012

Tulsa, Oklahoma
DoubleTree @ Warren Place

The NEOK Chapter is looking forward to hosting the Region VIII CRC in 2012. It will be April 26th –28th at the beautiful suburban DoubleTree @ Warren Place.

Registration website will open in January. So watch your inbox and chapter newsletter for more information.

In addition to the regional training and business sessions, we have planned some great Technical Sessions for Friday afternoon.

2:00 PM Speaker: David Farthing

Adjunct Professor at Oklahoma State University

Topic: Controlling NO_x Emissions from Boilers

3:30 PM Speaker: Dave Knebel,

Vice-President of Sales and Technology at AAON, Inc.

Topic: Single Zone VAV Systems

PDH's will be provided

2012 CRC TENTATIVE AGENDA

Wednesday, April 25, 2012

4:00 PM – 7:00 PM Registration

Thursday, April 26, 2012

7:00 AM – 7:30 PM Registration
 7:00 AM – 9:00 AM Breakfast – Hospitality Lounge
 8:30 AM Golfers meet in Hospitality Lounge
 9:00 AM La Fortune Golf Course
 4:00 PM – 5:00 PM Caucus Orientation
 6:00 PM – 9:00 PM Welcome Party-Hotel

Friday, April 27, 2012

6:30 AM – 5:00 PM Registration
 6:45 AM – 7:45 AM Caucus Breakfast
 7:00 AM – 9:00 AM Breakfast-Hospitality Room
 8:00 AM – 11:45 AM Business meeting
 10:00 AM – 10:15 AM Break during Business Meeting
 12:00 PM – 1:45 PM President's Luncheon
 2:00 PM – 5:00 PM Technical Sessions
 2:00 PM – 3:20 PM Controlling NO_x Emissions from Boilers
 3:30 PM – 5:00 PM Single Zone VAV Systems

6:00 PM – 9:00 PM Friday Night Social-Tulsa Air and Space Museum

Saturday, April 28, 2012

7:00 AM – 9:00 AM Breakfast- Hospitality Lounge
 7:30 AM – 12:00 PM Registration
 8:00 AM – 11:45 AM Golden Gavel Committee
 8:00 AM – 9:45 AM Webmaster Workshop
 8:00 AM – 9:45 AM Officers Workshop
 8:00 AM – 9:45 AM Research Promotion Workshop
 8:00 AM – 9:45 AM Communications Judging
 8:00 AM – 9:45 AM Refrigeration Workshop
 9:45 AM – 10:00 AM Break
 10:00 AM – 11:45 AM CTTC Workshop
 10:00 AM – 11:45 AM Student Activities Workshop
 10:00 AM – 11:45 AM Communications Workshop
 10:00 AM – 11:45 AM Membership Workshop
 10:00 AM – 11:45 AM Historian Workshop
 12:00 PM – 1:45 PM Awards Luncheon
 2:00 PM – 3:30 PM Business Meeting
 3:30 PM – 5:00 PM Executive Session
 5:00 PM – 5:45 PM CRC Debrief

COMPANION ACTIVITIES

Thursday, April 26

7:00 AM-9:00 AM Continental Breakfast-Hospitality Room
 6:00 PM-10:00 PM Welcome Party at Hotel

Friday, April 27

7:00 AM-9:00 AM Continental Breakfast-Hospitality Room
 10:30 AM Leave for Philbrook Museum
 11:00 AM-1:30 PM Tour and lunch at Philbrook
 1:30 PM-2:30 PM Tour of Gardens at Philbrook
 2:30 PM-4:00 PM Shopping at Utica Square
 6:00 PM-9:00 PM Social at Tulsa Air & Space Museum

Saturday, April 28

7:00 AM-9:00 AM Continental Breakfast-Hospitality Room
 10:00 AM-11:00 AM Optional Exercise/Walking Class by Fleet Feet
 12:00 PM-1:45 PM Awards Luncheon



ASHRAE
CHAPTER/REGIONAL TECHNOLOGY AWARD APPLICATION
SHORT FORM

(Revised June 2011)

INTRODUCTION:

*This Short Form has been developed to stimulate more participation in chapter and regional competition. **This form is not intended to replace the full Society Technology Award Application form.** Regional winners using the short form will be required to complete the full Technology Award Application form before their applications can be forwarded for Society Competition. (This form does not require extensive narrative, plans or photographs.)*

INSTRUCTIONS:

- A. The individual submitting the Technology Award Application must be a current member of ASHRAE who had a significant role in the design or development of the project.
- B. Complete the "Short Form" and use it as the cover page.
- C. Provide a system schematic/diagram not larger than 11" x 17" in size. In addition, attach a brief narrative (maximum of 2 pages). The narrative should include the gross and net building areas applicable to the project, a description of the major building areas (i.e., operating rooms, laboratories, computer rooms, industrial processes, offices, warehouses) and a brief discussion regarding the following five criteria (if a criterion is not applicable, state accordingly):
 - Energy Efficiency
 - Indoor Air Quality
 - Innovation
 - Operation & Maintenance
 - Cost Effectiveness
 - Environmental Impact
- D. Submit your schematic, brief narrative, and completed form to your Chapter Technology Committee Chapter (CTTC) Chair for judging at the chapter level in accordance with their instructions.
- E.

The ASHRAE Technology Award program is intended for built projects. First place winning projects should be eligible for submission to the Society level competition on September 1st of the following Society calendar year. Therefore, a project submitted to a Chapter or Regional competition shall be occupied prior to September 1st of the current Society year in order to satisfy the preceding Society level competition requirement of one full year of occupancy.

First place winners in each category from chapter competition will be submitted by the CTTC Chapter Chair to the CTTC Regional Vice Chair for judging in the Regional Technology Awards competition. At the discretion of the CTTC Regional Vice Chair, this may require completion of the full Society Technology Award Application form if the chapter submission was done on the Short Form Application.

The CTTC Regional Vice Chair will invite first place winners in each category from regional competition to submit them for judging in the Society level Technology Awards competition. The regional winners will be given the opportunity to incorporate new information or otherwise improve their submittal before submitting it to the society level competition (e.g., by addressing comments from regional judges). At the discretion of the judging panels at the chapter and regional competitions, more than one first place winner may be awarded in each category.

For the regional competition, submit the number of copies requested by the Regional CTTC Vice Chair. The CTTC Regional Vice Chair may require entries into the regional competition to be done on the full Society Technology Award Application form. In any case, all submissions to the Society level competition must be done on the full Society Technology Award Application form.

- F. It is highly recommended that each entrant confirm by letter (and retain a copy for record) to the owner that the owner has granted permission to submit this project to competition.

NOTE: ASHRAE Technology Awards are the HVAC&R industry's most prestigious honor for efficient energy use in buildings and environmental system performance. While the awards do not certify responsible charge or professional license status, they do recognize outstanding design innovation and successful implementation.

CHAPTER/REGIONAL TECHNOLOGY AWARD - SHORT FORM

1. Category (Check one and indicate New or Existing, if applicable)

☐ Commercial Buildings ☐ New or ☐ Existing

Institutional Buildings:

☐ Educational Facilities ☐ New or ☐ Existing

☐ Other Institutional ☐ New or ☐ Existing

☐ Health Care Facilities ☐ New or ☐ Existing

☐ Industrial Facilities or Processes ☐ New or ☐ Existing

☐ Public Assembly ☐ New or ☐ Existing

☐ Residential (Single and Multi-Family)

2. Name of building or project:

City/State:

3. Project Description:

Project Study/Design Period:

Percent Occupancy at time of submission:

4. Entrant (ASHRAE member with significant role in project):

a. Name: _____
Last First Middle

Membership Number: _____

Chapter: _____

Region: _____

b. Address (including country): _____

City State Zip Country

c. Telephone: (O) _____ d. Email: _____

e. Entrant's Role in Project: _____

f. Member's Role in Project: _____

g. Member's Signature: _____

5. Engineer of Record:

By affixing my signature above, I certify that the information contained in this application is accurate to the best of my knowledge. In addition, I certify that I have discussed this entry with the owner and have received permission from the owner to submit this project to the ASHRAE Technology Awards Competition.