



The Razorback Report

www.arkansasashrae.org

Volume XX, Issue 4, December 2008

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

DECEMBER MEETINGS

Northwest Arkansas

Date: Thursday, December 4th

Location: Whole Hog Bentonville

Cost: TBD

Schedule:

4:30 pm Steering Committee Meeting

5:30 pm Social

6:00 pm ASHRAE Business / Dinner

Program—"Data Center Cooling Requirements" -
Mike Lawler

Central Arkansas

Date: Wednesday, December 3rd

Location: Camp Aldersgate

Cost: \$15 / person

Schedule:

10:30 am Board Meeting

11:30 am Tech Session - Research Promotion

12:00 pm Lunch

12:15-1:00 pm Program - "Data Center Cooling
Requirements" - Mike Lawler

The President's Message

By Kim Koch

Chapter President

As expected we had a great turn out to hear President Bill Harrison speak at the November meeting. I think many of us found the presentation very eye opening about what is going on in the industry and specifically in ASHRAE today. We were also very fortunate to have Dr. Wayne Helmer bring several students and give a presentation on "Project Lead the Way." This program that Dr. Helmer is heavily involved in provided engineering prep programs in high schools across the state to help guide and prepare students for entering the college engineering programs.

Speaking of those students, we had several in attendance at both our Northwest Section and Central Section meeting. Many of these students are looking for Employment in either intern or full time positions. Please remember these students as you are looking at staffing needs for your companies. If you need contact information or resumes for the ASHRAE student members please contact Bill Simpson or myself.

As usual I find myself entering the month of December expecting lots of fun but also lots of stress. It seems that there are so many parties to go to, families to get together with, gifts to buy and stockings to hang that the month is over before it even gets started. As usual the ASHRAE meeting is one of the first gatherings of the month. We are back at Camp Aldersgate for this meeting, so I hope you are all able to come join us.

It is a week late but I do want to again take this opportunity to thank some of our many volunteers. This month we will be focusing on thanking everyone for their past Research Promotion contributions. Steve Titus is leading our research promotion efforts this year. He will be building off the success of many past award winners in research promotion including Rick Sellers, Chance Hollingsworth and Randy Moore. I am sure that Steve will be calling on the expertise of these past winners as well as all of our members to meet the challenge set for us by our regional and society officers.

Inside This Issue : Page

Chapter Meeting Calendar : 2

NWA Section Update : 2

Refrigerant Update : 3

Chapter Board Meeting Minutes : 4

Membership Report : 4

Student Activities : 5, 8

Continuing Education : 9

Officer and Committee Chair list : 6

ASHRAE Winter Conference : 12

November Meeting RSVP Form : 7

Month	Tech Session	Speaker	Meeting Topic	Speaker	Section	Date	Location	Meeting Designation	Sponsor
Sept	BIM— Lessons Learned	Mike Fullerton	ASHRAE & BIM	Gordon Holness ASHRAE President Elect	Central	9/4	Next Level Events— Union Station	Membership Promotion	TBA
					NWA	9/4	Golden Corral		
Oct	Eco Friendly Water Treatment	Gary Wirges	Water Conservation In The Sustainable Environment	Dennis Schnell	Central	10/1	Camp Aldersgate	Sustainability	TBA
					NWA	10/2	Whole Hog		
Nov	NA	NA	Presidential Visit— Maintain To Sustain	ASHRAE President Bill Harrison	Central	11/5	Next Level Events	Student Meeting	TBA
					NWA	11/4	AQ Chicken		
Dec	Research Promotion	Steve Titus	Data Center Cooling Requirements	Mike Lawler	Central	12/3	Camp Aldersgate	Research Promotion	TBA
					NWA	12/4	Whole Hog Bentonville		
Jan	TBA – <i>Joint Meeting with CSI</i>	TBA	Beyond The Code	TBA	Central	1/13	Camp Aldersgate	Joint Meeting w/ CSI	TBA
	TBA	TBA	TBA	TBA	NWA	1/8	TBA		
Feb	TBA	TBA	Modern Refrigerant Piping Practices	TBA	Central	2/4	Camp Aldersgate	Refrigeration	TBA
					NWA	2/5	TBA		
March	TBA	TBA	ASHRAE 90.1-2007 Update	Mick Schwedler	Central	3/4	Camp Aldersgate	Student Day	TBA
					NWA	3/5	TBA		
April	TBA	TBA	Tour Bethel Elementary	NA	Central	4/1	Bethel Elementary Bryant AR	Sustainability	TBA
	TBA	TBA	Tour Tyson Discovery	NA	NWA	4/2	TBA		
May	Social	NA	Past Presidents Night	NA	Central	TBA	Dickey Stephens Park	TBA	TBA
					NWA	TBA	TBA	TBA	TBA

Been involved with ASHRAE enough that you may qualify for a **Distinguished Service Award** but can't remember? Keep track of your ASHRAE service history years down the road by recording your activity today on the **Biographical Record System** at the following URL. <http://xp20.ashrae.org/bio/>

Membership Report

Submitted By: Joel Funkhouser – Membership Chair

I'd like to welcome our newest member: Jeff Siebler of Rogers. I applaud you for your interest in the HVAC&R field and look forward to seeing you at our September meeting!

We have a strong chapter, and additional members will help to make us even stronger. Our chapter's membership has increased slightly over the past year, and everyone that attends meetings is encouraged to seek membership to aid in strengthening our chapter. As always, if you have any questions pertaining to membership, please contact me and I'll be happy to assist you.

Meeting Minutes

Submitted by Marc White—Secretary

Board Meeting of November 5, 2008

Officers and Board Members Present

Kim Koch, President
Steve Keen, Treasurer
Marc White, Secretary
Don Huggins, BOG
Chris Shaw, BOG

Committee Chairs Present

Bill Simpson, Student Activities Chair
Lee Greeson, Reception Chair
Joel Funkhouser, Membership Chair
James Dayer, Chapter Programs Chair
AD, Webmaster

Board Meeting Minutes

Kim Koch began the meeting by passing out the Audit Committee report and a table of Region VIII PAOE points to date. Kim then mentioned an email that she received from Ken Fulk concerning the Paver Donation program for the new ASHRAE Headquarters building. The roof pavers cost \$200 each and will be customized to recognize the donor. Kim asked if this was something the chapter wanted to do. There were no objections from the board members. Kim stated that she would bring the issue up during the chapter meeting for a vote. Kim will also make a motion during the chapter meeting for a \$10,000 chapter donation for research promotion. Kim then stated that it is time to start putting together the officer nominating committee for this year and asked everyone to be considering possible members.

Steve Keen passed out the October treasurer's report and stated that the fall golf tournament has not yet been closed out, but otherwise October is up to date. The chapter's 2007 tax return has been completed. Steve will sign and send the return to the IRS along with a copy to the Attorney General's office by the November 17 deadline. Next the October treasurer's report was approved by acclamation.

Marc White stated that he had received no comments on the October Board Meeting Minutes draft prior to sending the final copy to Mark Ring for the newsletter. The October Board Meeting Minutes were approved by acclamation.

(Continued on page 8)

Student Activities

Submitted By: Bill Simpson – Student Activities Chair

November was dedicated as our annual Student Meeting. We were fortunate enough to have a good sized group of students attend this year. Arkansas Tech was well represented. If you have a line on any potential job opportunities you might send an email to Dr Wayne Helmer at whelmer@atu.edu and let him know.



Future ASHRAE Meetings:

2009 ASHRAE Winter Meeting
January 24 - 28
Chicago, IL

2009 ASHRAE Annual Meeting
June 20 - 24
Chicago, IL

2010 ASHRAE Winter Meeting
January 23-27 2010
Orlando, FL

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.

2007-2008 Chapter Officers

<u>President</u>	Kim Koch	501.666-6776	kkoch@tmecorp.com
<u>Vice-Pres.</u>	Chris Ahne	501.661-0621	cahne@trane.com
<u>Treasurer</u>	Steve Keen	501.374-5420	skeen@powersar.com
<u>Secretary</u>	Marc White	501.664-3311	mwhite@batsonbravo.com

Board of Governors

Charles Wetzler	501.590-2703	cgwetzler@yahoo.com
Don Huggins	501.374-3731	dhuggins@pettitinc.com
Chris Shaw	501-280-0404	chris@airetechcorp.com
Steve Titus (CRC Alternate)	501-280.0404	chance@airetechcorp.com
John Hodoway (CRC Delegate)	501.372.2900	john.hodoway@mail.ashrae.org

Committee Chairs

Membership	Joel Funkhouser	jcfunkhouser@garverengineers.com
Student Activities	Bill Simpson	wsimpson@trane.com
Programs	James Dayer	jdayer@fluidsolutionsinc.com
Historian	Steve Titus	sctitus@aristotle.net
Refrigeration	Miguel Purdy	mlpurdy@vcaw.com
Research Promotion	Steve Titus	sctitus@aristotle.net
Newsletter	Mark Ring	mark@airetechcorp.com
Publicity	Charlotte Bruner	charlotte@johnprinceco.com
NW Section	Landon Lay	landon.lay@hei-eng.com
Social	Tony Demarco	tony@airetechcorp.com
Reception	Lee Greeson	lgreeson@batsonbravo.com
Webmaster	Haidara Agalheir	hagalheir@trane.com
Continuing Education	John Carter	john@jtcarterco.com
Sustainability	Tom Hanlon	thanlon@tmecorp.com

THE RAZORBACK REPORT

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

Social Activities

Submitted By: Tony Demarco – Social Chair

Congratulations to Glenn Mechanical for winning the 2008 Fall ASHRAE Golf tourney. I would also like to congratulate Mikel Kullander for recording our 1st Hole-N-One. Thanks again to all the sponsors and everyone who helped to make this another very successful tournament. See you all next Spring.



Tony Demarco hands the ASHRAE Championship Trophy to the team from Glenn Mechanical.



Mike Kullander scores the first ASHRAE hole-in-one. Congratulations Mike!



**SUSTAINABLE
Urban Design**
Engineering • Architecture • Planning
2009 AHR Expo Winter Conference

**engineering
tomorrow...
today**

**ASHRAE's 2009
Winter Conference
January 24-28
- AHR Expo
- Jan. 26-28**

www.ashrae.org/chicago

**ASHRAE 2009 Winter Conference
& AHR Expo**

**McCormic Place
Chicago, IL**

**You Can
Register Now at:**

www.ashrae.org/chicago



*Leave a
Lasting
Impression*

Perfect for chapter, individual
or company recognition.



ASHRAE recognizes our members are the foundation of our success. Demonstrate your commitment to our goals, memorialize your support and leave a lasting testament to your membership in ASHRAE through purchase of a paver at our newly renovated ASHRAE Headquarters. Join ASHRAE as we "walk the talk" and celebrate our new sustainability showcase.

**To purchase a paver, visit
www.ashrae.org/building**

(Continued from page 3)

AD informed everyone that he updated the chapter website today, but still does not have the power point presentation from the October technical presentation. AD will begin to bring a thumb drive to the monthly meetings to get a copy the presentations for the website.

Joel Funkhouser announced that there are three new members this month. Joel will introduce the new members during the chapter meeting. Kim Koch asked Joel about identifying YEA members. Kim stated that there are ways to get PAOE points if certain presentations are made by a YEA member.

Kim Koch reminded everyone that the next continuing education opportunity will be December 5. The seminar topic will be ground source heat pumps and will be held at the Trane Arkansas offices. 15 people have already registered for the seminar.

Kim Koch adjourned the Board Meeting.

The monthly technical session presented by Mark Johnson of CALMAC was "Hybrid Cooling Systems/Ice Storage". The reasons for using ice storage include reduced operating costs, reduced demand charge and reduced consumption at the power plant. The chillers in an ice storage system are typically sized between 50% and 80% of full load. Electrical demand charge is what drives the use of an ice storage installation. For areas with a demand charge at \$6/kW and above, ice storage begins to make sense. The demand charge for MLG&W (Memphis) is \$12/kW and for Entergy the demand charge is \$8.40/kW. Applications at this time are limited to chilled water systems. The technology for use with DX systems is currently in development.

Today was student day and Dr. Wayne Helmer from ATU brought 9 of his students to the meeting. Dr. Helmer discussed Project Lead the Way with the chapter. The project is a pre-engineering program for high school students whose goal is the growth of the nation's technical work force. Currently there are 170,000 students in the program across the nation.

Announcements:

Kim Koch brought the proposed research promotion donation of \$10,000 and the \$200 roofing paver donation for the new ASHRAE Headquarters building to the chapter for a vote. Both items were approved by acclamation.

Joel Funkhouser introduced this month's three new members to the chapter.

Mike Fullerton reminded the chapter of the upcoming continuing education ground source heat pump seminar to be held on December 5.

The featured program speaker was the current ASHRAE Society President, Bill Harrison. Mr. Harrison talked about the theme of his presidency, Maintain to Sustain. Mr. Harrison talked about three of the main challenges facing the world today: the cost and availability of energy, the cost and availability of food and the need to protect the environment. In the United States, end users of energy are broken into buildings (40%), transportation (28%), and industry (32%). Coal and oil currently are the primary energy sources. The world demand for energy is expected to increase by 50% from the year 2005 to the year 2030. The cost of food is directly linked to the cost of oil and to spoilage. 50% of harvested food is affected by spoilage. There is, therefore, a great need to direct attention to the efficiency of refrigeration because of both the energy and spoilage factors in food availability. Regarding protection of the environment, sustainability for ASHRAE means energy efficient, healthy and productive indoor environments. Mr. Harrison talked about the issues for building owners being life cycle costs and equipment recommissioning. Engineers need to deliver the energy message to these building owners. Larger budgets for the planning and design of buildings produce lower construction costs and lower operating costs. After the building is constructed, the owners need to be made aware that when maintenance is deferred all other costs of owning a facility increase. ASHRAE's role in these efforts is to produce a net zero design guideline by 2015, to reduce energy use in existing buildings, and to be involved in making available efficient, affordable and maintainable refrigeration systems. Mr. Harrison is challenging local ASHRAE chapters to schedule meetings with local owner organizations to educate them about the need to make engineers an integrated part of building design, to let them know that high performance design costs more and to let them know about the importance of keeping green buildings green.

Meeting adjourned.