



The Razorback Report

www.arkansasashrae.org

Volume XXII, Issue 1, September 2010

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

SEPTEMBER MEETING

Central Arkansas

Date: Wednesday, September 1

Location: Camp Aldersgate

Cost: \$20 / Each Person

Schedule:

10:30am Board Meeting

11:30am Tech Session

11:45am Lunch

12:00-1:00pm Engineering Ethics

Northwest Arkansas

Date: Wednesday, September 1

Location: AQ Chicken, Springdale

Cost: ~\$12 / Each Person

Schedule:

6:30pm Dinner

7:00-8:00pm Engineering Ethics

THE PRESIDENT'S MESSAGE

By Steve Keen

September is right around the corner along with a new year for Arkansas ASHRAE. We want to continue a strong year this year and carry on the past traditions of the Arkansas Chapter. The Arkansas Chapter has produced two Society Presidents, Bill Goodman and Bill Harrison, in recent history rising up through the society region level to the national society level. Region VIII continues to be one of the strongest Regions in ASHRAE and the Arkansas Chapter again came away with many awards and recognitions at CRC last April in Houston. We will recognize those awards and our past chapter President Chris Ahne at our first meeting of the year, September 1st at Camp Aldersgate in West Little Rock and AQ Chicken in Springdale.

One of our ongoing goals is to present informative topics at our monthly meetings that bring value to our members and our engineering community in Arkansas. The topic of this month's meeting is Engineering Ethics. This topic has been on the wish list for meeting content for some time. Mike Bilderbeck with the Pickering Architectural and Engineering firm in Memphis will be speaking at both the Central Arkansas and Northwest Section meetings. Mike is the Chief Mechanical/Fire Protection Engineer and a Principal with the Pickering Firm.

Setting goals for anything has little meaning unless there is an associated method of measuring that goal. An older gentleman told me once, "If you don't know where you are going, you will get nowhere fast". The Arkansas chapter has several goals this year. I have already mentioned one: meetings that bring value to the participant. We can measure that goal with attendance at each meeting. I would encourage each ASHRAE member to

continue supporting your local chapter. If you have not been involved in the past or have stepped away, consider a new commitment to attending the meetings this year.

We have other goals this year with methods of accountability. We had several successful joint meetings last year with societies including AAHE, USGBC AIA, CSI and BOMA. I believe all of the individual society members took away something valuable from these joint meetings. We all had a chance to get some insight into what each society is doing and how they operate; we were able to network with other members of our engineering, construction, and hospital engineering communities. We want to continue to promote sustainability through improved methods of construction and operating buildings including how we structure our own lives.

We want to increase your participation in ASHRAE. If you have been a part of the engineering and construction business, consider giving a small amount of your time by getting involved in a committee. If you are just entering the engineering and construction field, consider ASHRAE as a necessary tool to advance your knowledge and consequently your career. One of the methods to get involved, especially for the under 35 crowd, is to get involved with YEA, Young Engineers in ASHRAE. We will be increasing opportunities for you to participate in many events this year, all geared around fellowship (many geared around fluids seminars).

Finally, as part of the Arkansas ASHRAE leadership, if we all do our part as Officers, Committee Chairs and members of the Board of Governors,

(Continued on page 3)

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MONTH	MEETING TOPIC	SPEAKER	SECTION	DATE	LOCATION	MEETING DESIGNATION
SEPT	Engineering Ethics	Mike Bilderbeck of Pickering	Central	09/01/10	Camp Aldersgate	Ethics
			NWA	09/01/10	AQ Chicken	
OCT	ASHRAE Building Energy Quotient (BEQ) Program	Ron Jarnagin of Pacific Northwest National Labs (Distinguished Lecturer)	Central	10/06/10	Camp Aldersgate	Joint Meeting with BOMA & AIA (tentative)
			NWA	10/07/10	AQ Chicken	
NOV	Vancouver Olympic Village Sewage Heat Recovery System (tentative)	Don Hay (tentative)	Central	11/03/10	Camp Aldersgate	Refrigeration (tentative)
			NWA	11/04/10	AQ Chicken	
DEC	Energy Plus (tentative)	Nick Long of NREL (tentative)	Central	12/01/10	Camp Aldersgate	Sustainability, Joint Meeting with SAME (tentative)
			NWA	12/02/10	AQ Chicken	
JAN	Exergy (tentative)	TBD	Central	01/12/11	Camp Aldersgate	TBD
			NWA	01/13/11	AQ Chicken	
FEB	ASHRAE 62.1 Update	Dennis Stanke (Distinguished Lecturer)	Central	02/09/11	Camp Aldersgate	Indoor Air Quality
			NWA	02/10/11	AQ Chicken	
MAR	Thermal Energy Storage	Mark MacCracken (Distinguished Lecturer)	Central	03/02/11	Camp Aldersgate	Sustainability, Joint Meeting with USGBC
			NWA	03/03/11	AQ Chicken	
APR	Applying the IAQ Procedure of ASHRAE 62.1 at K-12 Facilities (tentative)	Christopher Muller of Purafil (Distinguished Lecturer) (tentative)	Central	04/06/11	Camp Aldersgate	Indoor Air Quality (tentative)
			NWA	04/07/11	AQ Chicken	
MAY	Past President's Night	N/A	Central	TBD	TBD	Past Presidents Recognition
			NWA	N/A	N/A	

ARKANSAS NEBB RECERTIFICATION & ASHRAE EDUCATIONAL SEMINAR

The 2010 Arkansas NEBB Recertification & ASHRAE Educational Seminar is coming up soon—Friday, September 24th. The registration form and Educational Seminar program will be distributed soon. Please complete your registration form and along with a check in the amount of \$75.00 per person return to AR NEBB - P. O. Box 15964, Little Rock, AR 72231. If there is anyone you think might be interested in attending please pass along the Registration Form.

Thank you and I look forward to seeing you at the Seminar.

Jo Kinley
AR NEBB

President's Message

(Continued from page 1)

Arkansas ASHRAE will again represent our chapter as a leader in Region 8 at CRC in Dallas this year. I would encourage you to consider making the trip to Dallas this year and participate in the CRC. Ask around and find out what happens at CRC. It is a fun time with some important training and educational time thrown in during the day. ☺

YOUNG ENGINEERS IN ASHRAE (YEA)

Are you 35 years of age or younger? Are you looking for a way to network with other HVAC professionals? Are you looking for training in how to be an effective leader?

Then YEA is for you! From chapter-level "fluids seminars" to the society-level Leadership Weekend, YEA has something for the young professional.

Be watching for announcements in the Razorback Report for local YEA events and we have included the schedule of events and registration form for the YEA Leadership Weekend this October in Atlanta.

COMMISSIONING FOR SUSTAINED BUILDING PERFORMANCE

We are excited as we continue planning for "Commissioning for Sustained Building Performance", a one day seminar at Heifer Village, Heifer International Headquarters, Little Rock, AR on **Friday, September 17, 2010**. This seminar will provide information on commissioning legislative activity, sustaining building performance, developments in commissioning best practices, and a special session on Commissioning 101.

We are excited to bring this event to Little Rock and invite you to review the attached agenda as we feel that these topics are very relevant at a time when maximizing energy and financial resources is of utmost importance. Registration information is included and we encourage you to attend and send your staff.

We look forward to seeing you. Please feel free to contact us if you have questions.

Guy Caple, Board of Directors
Southeast Region Building Commissioning Association
gcaple@tmecorp.com

Tim Staley, Regional Representative
Building Commissioning Association
Tim.staley@comfortsystemsusa.com

RESEARCH PROMOTION 2009-2010 CAMPAIGN REPORT—THANKS FOR YOUR SUPPORT!

Chris Ahne—Research Promotion Chair

I want to say thank you to all of the people who contributed to the 2009-2010 research promotion campaign. With your help, Society reached their goal of \$2,000,000! Let me ask you to stop and consider that amount and what it can represent in terms of technical value.

It is a tremendous statement that our Society is committed to ongoing research that improves our understanding of HVAC&R systems and processes. That knowledge and understanding helps designers of equipment and building systems to be more effective in our overall product to the end user. When other societies such as BOMA, USGBC, and APPA look at the value of partnering with ASHRAE, they are drawn to our technical leadership in the building industry that stems from our commitment to ongoing research and raising the funds that allows the research to take place. We have the same respect of government agencies such as the US Congress, the EPA, and the Department of Energy who have been reaching out to ASHRAE to better understand how government initiatives can follow the guidance of ASHRAE who continues to promote sustainable ideas and tools to achieve the government's proposed lower energy targets.

So, without every research investor it would not be possible to meet our mission statement: "ADVANCING HVAC&R to serve humanity and promote a sustainable world".

AUGUST 11 PLANNING MEETING MINUTES

President Steve Keen opened the meeting by introducing the current officers, committee chairs, and Board of Governors that were present.

Steve then reviewed the chapter goals for the year. The goals were to provide monthly meetings to bring value to the membership, plan strategic joint meetings with BOMA, AAHE, USGBC, CSI, AIA, and other organizations that can benefit from ASHRAE's technical expertise, support & promote sustainability, and schedule YEA events at the beginning of the year to increase participation in the events. Other goals included having all grass roots committee chairs to communicate with RVCs regularly, support the newsletter with regular articles, exceed PAR for PAOE, maintain low member delinquency, maintain the meeting attendance that we had last year, achieve our Research Promotion goal, and to get the chapter budget approved by September 1st.

During discussions about Young Engineers in ASHRAE (YEA) involvement, it was determined that our chapter should promote the YEA Leadership weekend by writing an article to be published in the chapter newsletter. Steve Keen asked Caleb Haynes, the YEA coordinator, to write that article.

Upcoming continuing education events were also mentioned. Our chapter is supporting the NEBB continuing education seminar in September and the SERBCA conference that is also in September. Other schedule items that were discussed were the fall golf outing and the monthly meeting dates.

Steve discussed the expanded Role of the Research Promotion chair to help assist with promotion of the two chapter golf outings and the NW Section golf outing since the proceeds from these directly impact the chapter's ability to reach goal.

President Keen indicated that each of the RVC for grass roots committees had a powerpoint file for committee chair responsibilities and desired goals and each chair should be familiar with these goals and plan their Management By Objectives (MBOs) accordingly. Steve also encouraged recruitment and involvement of co-chairs for each committee.

The final agenda item was presented by Chris Ahne who reviewed the Presidential Award Of Excellence (PAOE), Golden Gavel committee judging, and emphasis on communication with the RVC in goal setting and monthly follow-up.

HVAC ASHRAE 62.1 FOR THE APPLE IPHONE/IPOD TOUCH/IPAD

ANSI/ASHRAE Standard 62.1-2007, Ventilation for Acceptable Indoor Air Quality, sets minimum ventilation rates and other requirements for commercial and institutional buildings. Standard 62.1 has served the building industry and the public as the most prominent standard on ventilation for indoor air quality.

The ASHRAE 62.1 iPhone, iPod touch, and iPad application allows you to perform comprehensive minimum ventilation calculations for a wide variety of commercial buildings based upon Standard 62.1, using either I-P or SI units. This app is based upon the "62MZCalc.xls" Excel spreadsheet that accompanies each copy of the Standard. You can do pretty much everything in this app that you can do in the Excel spreadsheet, in addition to creating multi-system projects and emailing results so you can perform further analysis.

Other advantages over the spreadsheet include:

- Easily perform ventilation calcs in the field using your mobile device.
- By using slider-control inputs, you can instantly see results update as input values are changed.
- Easily email inputs and results in an html-formatted email and also an Excel spreadsheet for further analysis back at the office

ASHRAE JOBS IS THE SOCIETY'S ONLINE EMPLOYMENT RESOURCE

With an exceptionally difficult recruitment market, the ASHRAE Jobs Career Center has been averaging 55 active job postings per month and just over 5,000 monthly job seeking visitors. Recruiters are experiencing, on average, 12 online applications per job posting and have access to just over 1200 resumes that have posted since its launch.

ASHRAE Jobs is not only about the hire. It is the path to a hire. By visiting www.ashraejobs.com, you can search for certain skill sets and demographics that you are "always looking for". It is the place to capture high performers you can use to replace underperformers. Is this the place to see if your competitors people are out searching and interested in you. It is also the place to capture candidates for your Q1 hires because we are only 45 days away.

ASHRAE Jobs understands you do not want to be sold to. But you still have opportunities and problems, and may need a professional to discuss those with. That is what you can expect from ASHRAE Jobs: a no-strings-attached conversation where a representative listens and then makes recommendations whether they include ASHRAE Jobs or not. For more information, visit www.ashraejobs.com, call 888-482-2562 or e-mail John VonHarz at jvonharz@ashraejobs.com. An ASHRAE Jobs representative is available during business hours to discuss your firm's needs and make recommendations on next steps.

FUTURE ASHRAE MEETINGS:

2011 ASHRAE Winter Conference
January 29—February 2, 2011
Las Vegas, NV

2011 ASHRAE Annual Conference
June 25-29, 2011
Montreal, Quebec

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2010-2011 CHAPTER OFFICERS

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Steve Keen (CRC Alternate)	501.374.5420	skeen@powersar.com

COMMITTEE CHAIRS

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THE RAZORBACK REPORT

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



Arkansas ASHRAE 2010 / 2011

Pre-Pay Lunch Plan

Cost: \$140.00

Includes: 8 Monthly Meetings

Please complete the form below and mail or fax to the noted address/fax number. Invoices can be mailed or paid at the monthly meeting.

** Get one meeting meal free and express check in when you're pre-pay**

Company: _____

Address: _____

Phone: _____ Fax: _____

Names: _____

Please Mail Form to Arkansas ASHRAE

Attn. Steve Keen

P.O. Box 180

Little Rock, AR 72203

Or Fax to: Powers of Arkansas

Attn: Steve Keen

501.370.9298

Commissioning for Sustained Building Performance

*Friday, September 17, 2010
Heifer Village
Heifer International Headquarters
Little Rock, Arkansas
8:00 a.m. to 4:00 p.m.*

Agenda

8:00 a.m. Registration and Continental Breakfast
8:20 a.m. Welcome
8:30 a.m. Act 1494 Legislative Activity
9:15 a.m. Break

CONCURRENT SESSIONS—PLEASE REGISTER FOR ONE:

9:30 a.m. Developments in Commissioning Best Practices
• Electrical Systems
• Chilled Beams
9:30 a.m. Commissioning 101—The Basics You Need To Know

11:30 a.m. Lunch
12:45 p.m. Survey Results
1:15 p.m. University of Illinois Case Study
2:15 p.m. Break
2:30 p.m. Sustaining Performance
3:30 p.m. Wrap-Up and Evaluation
4:00 p.m. Adjourn

Register Now!

**Registration
Deadline
September 1, 2010**

Online registration is now available:

<http://www.regonline.com/serbcafall2010mtg>

Registration Price: Members \$100; Non-Members \$125

Visa and MasterCard Will Be Accepted

**Special Hotel Rates Expire on
August 16, 2010—Reserve Early!
See Page 2 For Details.**



Commissioning for Sustained Building Performance

*Friday, September 17, 2010
Heifer Village
Heifer International Headquarters
Little Rock, Arkansas
8:00 a.m. to 4:00 p.m.*

Hotel Information:

**Holiday Inn Presidential
600 Interstate 30
Little Rock, Arkansas 72201
Phone: 501-375-2100
Room Rate: \$97.99
Request Building Commissioning
Association (BCA) rate
A Limited Block Of Rooms Has
Been Reserved—Reservations
Must Be Made No Later Than
August 16th To Receive This
Rate)**



Heifer Village, on the Heifer International Campus in downtown Little Rock, Arkansas introduces visitors to the possibility of a world free of hunger and poverty. Heifer Village is designed as a sustainable and environmentally sensitive building. Adjacent wetlands, which support native species, complement Heifer Village's design. This facility is a LEED Platinum Certified Building.

While You're Here...

Visit the River Market District: The historic, downtown River Market District has been part of a revitalization of the riverfront over the past decade. The River Market itself includes an indoor market where shopkeepers offer everything from gourmet coffee to fresh sushi. The area has become a center of activity, which is continually fueled by the addition of new restaurants, hot local bars and unique shops.



Take A Ride On The River Rail Trolley: The River Rail is open with three replica vintage trolleys operating on 2.5 miles of new track. An overhead wire powers the cars, linking vibrant destinations in the River Cities.



Clinton Presidential Library: A tour through Clinton Presidential Library provides a walk through many aspects of history. The facility is a LEED Platinum Certified Building and a LEED tour is available.

Commissioning for Sustained Building Performance

*Friday, September 17, 2010
Heifer Village
Heifer International Headquarters
Little Rock, Arkansas
8:00 a.m. to 4:00 p.m.*

BCA—Building Commissioning Association

Building A Better Commissioning Industry



Our Goal

The BCA's goal is to achieve high professional standards, while allowing for the diverse and creative approaches to building commissioning that benefit our profession and its clients. For this reason, the BCA focuses on identifying critical commissioning attributes and elements, rather than attempting to dictate a rigid commissioning process.

The BCA approach provides measurable performance results and the highest return on the Owner's investment. We believe that achievement of commissioning success is recognized through sustained building performance.

Networking Opportunity

If you are arriving in Little Rock on **Thursday, September 16, 2010**, and would like to meet Southeast Region Building Commissioning Association Board of Directors members and other conference participants, join us at the **Holiday Inn Presidential Hotel in the Obama Room** at 6:00 p.m. for a networking opportunity.

Anyone interested in joining the group for dinner (at your expense) should be at the Obama Room by 6:45 p.m.

If you have questions, please contact Anita Rowe at arowe@tmecorp.com or Peggy Byrd at peggy.byrd@comfortsystemsusa.com.





YEA LEADERSHIP WEEKEND

FALL 2010 SCHEDULE

OCTOBER 1-3
ATLANTA, GA

ASHRAE
HEADQUARTERS &
MARRIOTT COURTYARD

TOPIC	SESSION	TIME	SPEAKER/S
10/1/10: Welcome & Icebreakers @ <u>Hotel</u>	Introduction to the Weekend: 1. A little about ASHRAE 2. Icebreakers to meet fellow Young Engineers in ASHRAE	5:00 p.m. – 7:00 p.m.	1. YEA Members 2. ASHRAE Staff
Dinner & Entertainment	Group dinner, entertainment TBD	7:15 p.m. – 11:00 p.m.	
10/2/10: Breakfast @ <u>Hotel</u>	Continental Breakfast. Shuttle to ASHRAE HQ. Bus will leave at 7:45 a.m.	7:00 a.m. – 7:45 a.m.	
Technical Tour of <u>ASHRAE HQ</u>	Learn about the Sustainable Design and Systems of ASHRAE Headquarters	8:00 a.m. – 9:00 a.m.	ASHRAE Staff
Myers-Briggs Type Indicator (MBTI)	Learn and understand your own personality type and the types of others. Also learn how to use this information to help you lead and work more effectively with fellow ASHRAE members and colleagues at your company.	9:00 a.m. – 12:00 a.m.	Barry Benator
Lunch @ <u>ASHRAE HQ</u>	Group lunch	12:00 p.m. – 1:00 p.m.	
Characteristics and Competencies of Outstanding Leaders	Learn the characteristics and competencies of outstanding leaders, and then how to apply these competencies within ASHRAE and back on the job. These practical, real-world based competencies are founded on solid research that will help you succeed as a leader.	1:00 p.m. – 6:00 p.m.	Barry Benator
Shuttle Back to Hotel	Put on your jeans, get a few minute's rest, and get ready for some fun!	6:00 p.m. – 7:00 p.m.	
Dinner & Entertainment	Group dinner, entertainment TBD	7:00 p.m. – 11:00 p.m.	
10/3/10: Breakfast @ <u>Hotel</u>	Continental Breakfast	8:00 a.m. – 9:00 a.m.	
ASHRAE Resources Presentations	1. ASHRAE On The Go: Pocket Guide 2. Building YEA Membership in Your Chapter 3. ASHRAE Structure Overview	9:00 a.m. – 10:00 a.m.	YEA Members
Effective Communication Skills for Leaders	Learn how to communicate effectively in any situation. Understand and practice the principles of active listening through role-plays specifically designed for YEA participants.	10:00 a.m. – 12:00 p.m.	Barry Benator
Goodbyes @ <u>Hotel</u>	Wrap-Up & Lunch To Go: You can grab lunch and head for the airport, or hang out at the hotel for a while.	12:00 p.m. – 1:00 p.m.	

**** This schedule may change slightly, but subject matter is confirmed****

YEA Leadership Weekend

OCTOBER 1-3, 2010

AT ASHRAE HEADQUARTERS & MARRIOTT COURTYARD ATLANTA EXECUTIVE PARK

Please mail or email your completed registration form to Colleen Knight (contact info below)

Name (print): _____

Nickname (for badge): _____

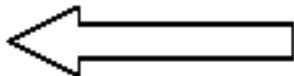
Member No.: _____ Chapter: _____

eMail Address: _____

Mailing Address: _____

City _____ State _____ Postal _____

Phone Number: _____

Pocket Guide: (Choose one) IP SI 

Shirt size: S M L XL XXL
(100% cotton polo)

A copy of the
ASHRAE Pocket
Guide for Air-
Conditioning,
Heating,
Ventilation and
Refrigeration is
included in the
cost of
registration.

PAYMENT INFORMATION:

THE COST FOR LEADERSHIP WEEKEND IS \$300 (USD)

This includes registration, materials, events, food, two nights in the hotel!

☐ **Check** (make checks payable to ASHRAE)

Credit Card

☐ American Express

☐ Master Card

☐ Visa

Name on card: _____

Card No.: _____/_____/_____/_____

Exp. Date: _____/_____



The event kicks off at 5:00 p.m. on Friday evening, 10/1, at the Marriott Courtyard. Please book your flight to be there by then. For your return flight, you should book a flight no earlier than 2:00 p.m. on Sunday, 10/3, to return home. All meals, entertainment (less alcohol), and hotel rooms are included in the registration fee.

REGISTRATION CLOSING SEPTEMBER 10, 2010. SPACE IS LIMITED, SO SUBMIT YOUR FORM EARLY. WE'LL SEE YOU IN ATLANTA! YOU WILL BE CONTACTED ONCE YOUR REGISTRATION IS RECEIVED.

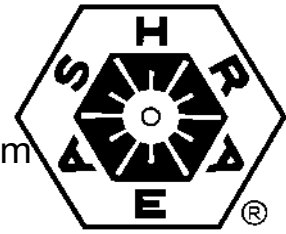
ASHRAE, Attn: Colleen Knight / 1791 Tullie Circle NE / Atlanta, GA 30329
Phone: (678) 539-1178 / Fax: (678) 539-2178 / email: cknight@ashrae.org





2010 Arkansas ASHRAE Fall Golf Tournament

Friday Nov. 5th "Shotgun Start" 12:30 pm
>Hurricane Country Club<
Bryant, Arkansas



Entry Fee: **\$340 per team** (4 players per team) Entry fee includes Mulligans 2/player, cart, refreshments, lunch @ 11:15.

Format: **4-Man Scramble** (First 24 teams)
Ties will be broken by score and hole handicaps.
This format shall promote fair and competitive play.

Prizes: 1st, 2nd place teams. (2 flights)
Long Drive (in fairway) and Closest To Pin.
Special contests to be announced.



Fill out form and e-mail tony@airetechcorp.com or fax to Tony DeMarco. Airetech Corporation 7631 Northshore Pl. North Little Rock, AR 72118

Phone: 280-0404 Fax: 280-9200



Player 1: _____

Player 2: _____

Player 3: _____

Player 4: _____

Total enclosed:\$ _____

**Please make checks payable to "Arkansas ASHRAE" and send to
Arkansas ASHRAE P.O. Box 180 Little Rock, AR 72203**

\$ Don't forget to sponsor a Hole \$

___ I will sponsor a hole -\$100. Sign at a hole & recognized in ASHRAE newsletter

___ Corporate Sponsorship- \$200+. Banners are allowed for corporate sponsorship & will be recognized in the ASHRAE newsletter as a Corporate Sponsor (There will be an area near the scoreboard to recognize corporate sponsors (owner provided))

___ I will donate \$_____ for prizes and awards

___ I will donate Merchandise (golf balls, towels, etc.)

Workers, Hole & Corporate sponsors & Prize Contributors will be recognized in the Arkansas ASHRAE Newsletter. All proceeds go to **Arkansas ASHRAE**.

Name: _____ .Company: _____

Signed: _____ .Date: _____

Phone: _____ .Fax _____ Email _____