



The Razorback Report

www.arkansasashrae.org

Volume XIX, Issue 8, April 2008

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

APRIL MEETINGS

Northwest Arkansas

Date: Thursday, April 3rd

Location: Fayetteville Country Club

Cost: \$15.00 / person

Schedule:

4:30 pm Steering Committee Meeting

5:30 pm Social

6:00 pm ASHRAE Business / Dinner

6:45-8:00 pm Program - "Beyond LEED - Full Cycle Energy Efficiency" - Jason Brannan

Central Arkansas

Date: Wednesday, April 2nd

Loc: AEDQ

Cost: \$15.00 / person

Schedule:

10:30 am Board Meeting

11:30 am Tech Session: "AEDQ Design" - Gary Dean & Tom Hanlon

12:00 pm Lunch

12:15-1:00 pm Program - "Commissioning & Occupying the Sustainable Building" - TME & Steve Martin.

1:00 pm Building Tour—Airetech & Powers of AR

The President's Message

By Steve Titus

Chapter President

Spring is already here, and the ASHRAE year is almost over, with only two regular meetings left. April is going to be a very busy month, however.

First, we are electing our officers for next year. I hope everyone will make sure they try and attend, as this is a very important time for our chapter. The nominating committee has put together a great slate, and I am excited about the members of the supporting committees that Kim has put together.

Also, this month our Sustainability Committee has put together a nice tour of the ADEQ facility. I think they have done a great job of coming up with a solid set of programs on sustainable buildings. I am looking forward to see what they come up with in the future.

Be sure to look for the satellite seminar this month for your continuing education for the year. Also, the Shreveport chapter has put together an incredible line up of speakers for the CRC this year. It is a great opportunity to not only pick up some continuing education, but to hear some experts in the field of "net zero" buildings. Although the deadline is past for discount rooms, it is not too late to sign up. We already have a great group from our chapter going, and I hope to see some more of you come along. It will be a great time.

I also want to get everyone thinking about next months meeting. It will be Past President's Night, where we honor those men and women who have served our chapter so well in the past. Last year we had the event at the new ball park to see the Travelers play, and had a great turn out with lots of families. This year we are building on that success, so plan on bringing your families now. We also planned an evening when the Travelers play the Naturals, so you guys from Northwest Arkansas come down and join us. And last, but not least. Don't forget to help Tony out by getting your teams registered early for the Spring Golf Tournament. He has a planed a great tournament as always

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Q: Do you know where the Central AR ASHRAE Meeting will be held this month???

If you answered "ADEQ in NLR", you will be at the right place

Month	Tech		Meeting Topic	Speaker	Meeting	Date	Location	Meeting	
	Session	Speaker						Sponsor	Designation
September	To Flush or Not to Flush	Tom Hanlon	Sustainable Communities	Chris Ladner	Central	5-Sep	Union Station	TME Inc.	
					NWA	6-Sep	Fayetteville Country Club		
October	Brief Introduction to Displacement Ventilation	Ken Loudermilk	Chilled Beams	Ken Loudermilk	Central	3-Oct	Camp Aldersgate	Trane Arkansas	Membership Promotion
					NWA	4-Oct	Fayetteville Country Club		
November	Energy Conservation in HVAC Systems	Russell Black	Variable Refrigerant Flow	Corey Bartlett	Central	7-Nov	Camp Aldersgate	Airetech Corporation	Student Meeting
					NWA	8-Nov	Fayetteville Country Club		
December	Research Promotion Recognition	John Hodoway	Kitchen Ventilation	Bruce Radant	Central	5-Dec	Camp Aldersgate	Pettit & Pettit	Research Promotion
					NWA	6-Dec	Fayetteville Country Club		
January	Application of Piping Expansion	Chris Call	Total Cost of Ownership for Refrigeration Systems	Richard Royal, PE	Central	9-Jan	Camp Aldersgate	Powers of Arkansas	Refrigeration Meeting
					NWA	10-Jan	Fayetteville Country Club		
February	Social	N/A	Net Zero Energy Buildings	Bill Harrison	Central	6-Feb	Next Level Events EVENING MEETING	Comfort Systems USA	Honors & Awards Presentation
			Beyond LEED: Full Cycle Energy Efficiency	Jason Brannan	NWA	7-Feb	Fayetteville Country Club		
March	Retro-Commissioning Cost and Benefits	Ed Tinsley	Pool Room Dehumidification	Scott McGinnis	Central	5-Mar	Camp Aldersgate	Wade Company	
					NWA	6-Mar	Fayetteville Country Club		
April	ADEQ Design	Gary Dean & Tom Hanlon	Tour of ADEQ Building	Tom Hanlon	Central	2-Apr	ADEQ	Fluid Solutions	Membership Promotion
			Beyond LEED—Full Cycle Energy Effi.	Jason Brannen	NWA	3-Apr	Fayetteville Country Club		
May	Past President's Night At The Ballpark	N/A	Past President's Night	N/A	Central & NWA	16-May	Dickey Stephen's Park	Batson Bravo	Student Meeting

ASHRAE Satellite Broadcast / Webcast



INTEGRATED BUILDING DESIGN: BRINGING THE PIECES TOGETHER TO UNLEASH THE POWER OF TEAMWORK

**Wednesday, April 16, 2008 – 1:00 to 4:00
p.m. EDT**

How to Participate

- You may host a broadcast site for your colleagues.
- You may register to view with others at a site near you.
- You may register to view the Webcast on your PC.

PDH Credits

Three (3) Professional Development Hours or three (3) AIA Learning Units will be awarded to viewers who complete the "Participant Reaction Form" following the program.

About the Presenters

(Visit www.ashrae.org/ibdbroadcast for complete details)

- Walter Grondzik
- Charles E. Gullledge, III
- Drury B. Crawley
- Paul Torcellini

Registration

Online registration for site coordinators and Webcast viewers will begin March 1, 2008, at www.ashrae.org/ibdbroadcast. Satellite viewer registration will begin March 15, 2008. There is no fee for registration. If you have questions, call 678-539-1139 or email ashrae-satellitebroadcast@ashrae.org.

This **free** broadcast explains what you and other members of the building team must do to advance high-performance buildings with improved design, construction and operations processes. Buildings that meet the needs of occupants and truly achieve sustainability objectives can only be created if the building community shares its knowledge and experiences. Join ASHRAE in learning more about your role in integrated building design and helping to create a sustainable built environment. This program is sponsored by ASHRAE's Chapter Technology Transfer Committee. For complete details, visit our website at www.ashrae.org/ibdbroadcast.

Join ASHRAE Now and Save \$50!

Viewers who are not currently ASHRAE members are cordially invited to join ASHRAE at a special introductory rate (\$50 off) for the first year of membership. A special membership application will be available at satellite broadcast sites or by request at membership@ashrae.org.

To learn more about ASHRAE membership, visit www.ashrae.org/membership.

Check out the latest updates to our chapter website at :
www.arkansasashrae.org

ASHRAE CRC — Registration is NOW OPEN

CRC 2008 Shreveport LA

CRC (Chapter Regional Conference) the annual meeting for all 15 chapters in ASHRAE Region VIII. The CRC is a golden opportunity for all the chapters to come together and learn about and from each other. The conference also gives everyone an opportunity to meet and fellowship together. CRC ends with the big event of the awarding of the Golden Gavel to the best chapter of the year.

Each year a different chapter hosts the CRC and opens their doors to the Region.

The Shreveport chapter is proud to host the Region VIII CRC this year. You'll notice that our theme is "Louisiana Lagniappe". Lagniappe means "a little something extra" and we are confident that we will deliver on that promise!

This year we are turning CRC upside down! We are modifying the schedule and our events in an effort to make this the best CRC you have attended in a long time. These are some of the changes we are making this year:

- We are having a **world class** technical seminar on Friday afternoon, in lieu of two small tech sessions at different times during the CRC. In the words of Bill Harrison, "There hasn't been a tech session like this outside a Society meeting ever." This \$130 value is free with your registration to CRC.
- We are having our large evening social event on Thursday night instead of Friday night. Thursday night will be a Cajun Party at the Mardi Gras Museum complete with Mardi Gras floats, a great band, entertainers, crawfish, beads, dancing, and beverages.
- We are giving you an opportunity to hit the town on Friday night and experience the local flavor. We will be your concierge for the night. Try our five casinos, top notch restaurants, and Shreveport night life.
- Plenty of things to do for companions. You will have a good time. I guarantee it!
- Golf and skeet tourneys that are local as well as regional.

The CRC registration and Hotel reservation is up and available from the Region VIII website. If you would like to attend you will want to register in advance. The technical program will be on Net Zero Buildings and with the help of Bill Harrison we have speakers/presenters that will advance our members ability to meet this challenge.

We look forward to seeing you in Shreveport !

<http://region8.ashraeregions.org/crc.htm>

Social Activities

Submitted by:

Tony DeMarco - Social Chair



Hello Golf fans, It's that time again and were all set to take on Stonelinks Golf Course in North Little Rock. It's been a while since we have played this venue so it should be a good time. No worries, I will consult the wind Gods and ask them to take it easy on us so we don't have to hit driver on certain par 3's. If you have played Stonelinks, you know what I mean. If not, you soon will. Please see the entry form in this newsletter and start getting your teams together and I'll see you on the course. **See Page 14 for the sign up sheet.**

Membership

Submitted by:

Joel Funkhouser - Membership Chair

I'd like to welcome our newest associate member, Anthony Robeson of Little Rock and our newest student member, Jason Hemphill of Springdale. We applaud you for your interest in the HVAC&R field and look forward to seeing you at our March meeting.

I encourage everyone to invite friends and colleagues to our meetings and to be on the lookout for potential new members. We have a strong chapter, and additional members will help to make us even stronger. As always, if you have any questions pertaining to membership, please contact me and I'll be happy to assist you.

Louisiana Lagniappe
Region VIII CRC 2008
Shreveport, LA

Have you registered
yet???

The Hilton is now full

BUT...

Sam's Town Might
Still Have Rooms

Make your plans now!

If you or someone you know isn't receiving the electronic version of the **Razorback Report** and would like to, please send an email to :
Mark@airetechcorp.com

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/>

Have you changed jobs recently?
Do you have a new email provider?

If so, you probably need to update your
Biographical Information with Society.

We are continuously trying to keep our membership data as current as possible. Please take a minute to make sure your contact information is accurate and up to date. You can navigate to the Biographical Record System through the membership section on ASHRAE's website, www.ashrae.org, or the following URL: <http://xp20.ashrae.org/bio/>

American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Arkansas Chapter Meeting RSVP Form

Company Name: _____

Phone #: _____ Fax #: _____

Signed: _____

ROUTING

For reservations to the Central Arkansas Chapter meeting send this form by **Monday by NOON, March 31st** to **Steve Titus** : scititus@aristotle.net or via FAX at 501-375-4628

For reservations to the Northwest Arkansas Chapter meeting send this form by **Tuesday, April 1st** to **Sam Browning** : sbrowning@trane.com or via FAX at 479-361-5977.

MEMBER NAME (PLEASE PRINT)	CENTRAL April 2nd	NW ARK April 3rd	EATING (Y or N)

NOTES: Please fax this form to the name and fax number as referenced above
 The meal is no cost to student members, however an RSVP is necessary.
 All "no shows" will be responsible for the cost of their meal.
In order to provide you with the best service for your Chapter's money, it is necessary to RSVP for each meeting.

RSVP for the April meeting online at www.arkansasashrae.org

April Meeting Topics

Tech Session - (Central) "ADEQ Design" - Gary Dean & Tom Hanlon

Program - (Central) "Commissioning & Occupying the Sustainable Building" - TME Staff & Steve Martin

Program - (NWA) "Beyond LEED - Full Cycle Energy Efficiency" - Jason Brannan

Meeting Sponsor: Fluid Solutions

Future ASHRAE Meetings:

**2008 ASHRAE Region VIII CRC
April 2008
Shreveport, LA**

**2008 ASHRAE Annual Meeting
June 21 - 25
Salt Lake City, UT**

**2009 ASHRAE Winter Meeting
January 24 - 28
Chicago, IL**

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2007-2008 Chapter Officers

<u>President</u>	Steve Titus	501.375.1181	sctitus@aristotle.net
<u>Vice-Pres.</u>	Kim Koch	501.666.6776	kkoch@tmeinc.com
<u>Treasurer</u>	Chris Ahne	501.661.0621	cahne@trane.com
<u>Secretary</u>	Steve Keen	501.374.5420	skeen@powersar.com

Board of Governors

Charles Wetzler		cwetzler@sbcglobal.net
Marc White	501.664.3311	mwhite@batsonbravo.com
Tim Staley	501-666.6776	tstaley@tmeinc.com
Chance Hollingsworth (CRC Delegate)	501-280.0404	chance@airetechcorp.com
John Hodoway (CRC Alternate)	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	Hank Wade	wadeco@aristotle.net
Refrigeration	Miguel Purdy	mlpurdy@vcaw.com
Research	John Hodoway	john.hodoway@mail.ashrae.org
Honors & Awards	Chance Hollingsworth	chance@airetechcorp.com
Technology Awards	Michelle Willock	mwhillock@johnprinceco.com
Newsletter	Mark Ring	mark@airetechcorp.com
NW Section	Sam Browning	SBrowning@Trane.Com
Social	Tony Demarco	tony@airetechcorp.com
Reception	Melanie Richardson	mrichardson@batsonbravo.com
Webmaster	Haidara Agalheir	HAgalheir@trane.com
Sustainability	Tom Hanlon	thanlon@tmeinc.com

THE RAZORBACK REPORT

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

Arkansas Chapter February Meeting Minutes

Submitted by Steve Keen, - Chapter Secretary

Board Meeting of February 6, 2008

Officers and Board Members Present

Steve Titus, President
 Kim Koch, VP, Programs Chair, Technology Chair
 Chris Ahne, Treasurer
 Steve Keen, Secretary
 Committee Chairs Present
 Bill Simpson, Student Activities Co-Chair
 Mark Ring, Newsletter Editor
 Charles Wetzler, BOG
 Tony Demarco, Social
 John Hodoway, Research Promotion

Board Meeting Minutes

Steve Titus opened the meeting by requesting reports from officers and committee members. Steve also mentioned the CRC meeting will be held in Shreveport this year. All local officers should attend. This year's dates are April 23-25.

Kim Koch mentioned the nominating committee is working on a list of names to bring to the board for the Board of Governors and committee chairs. Several names have been included. The nominating committee will pair the list down and present at the next board meeting. The vote on new Officers will be in April.

The building design seminar will be April 16, 2008.

Next months technical session will be "retrocommissioning" presented by Ed Tinsley. The program subject will be Pool Dehumidification, presented by Scott McGinnis. April's meeting will be a tour of the new Arkansas Department of Environmental Quality. The May meeting will be Past President's Night. 52 people have signed up for the joint meeting with CSI tonight. The majority are ASHRAE members. CSI will pay for their members separately. It was suggested other groups, such as, USGBC be considered for the joint meeting next year.

Chris Ahne submitted the treasurer's report which was accepted as presented and passed by acclamation. Chris stated the account has reserves set aside for the future CRC meeting in Little Rock. Chris made a motion to transfer this year's contribution to the reserve account, Kim seconded and the motion was approved by acclamation.

Steve Keen presented the January meeting minutes which was accepted as presented and passed by acclamation.

Mark Ring mentioned the deadline for next month's newsletter entries is February 23, 2008

Tony Demarco discussed the spring golf outing being planned for May. This years spring golf outing will be May 9 at Stonelinks. Backyard burgers will be catering.

Bill Simpson mentioned his committee is planning for student events at Engineers Week.

Steve Titus adjourned the Board Meeting.

In the monthly meeting Kim Koch presented research awards to Mike McClellan with Trane, Alan Hope with Powers of Arkansas and Sam Cummings with Pettit and Pettit Engineers. Bill Simpson presented a scholarship award to an Arkansas Tech University student.

Steve Titus updated the group on the upcoming CRC events in Shreveport, LA.

Page 2 of 2

Bill Harrison presented a discussion on ASHRAE's "Net Zero Energy Buildings". These are buildings,

(Continued on page 11)

Arkansas Chapter Meeting Minutes

Submitted by Steve Keen, - Chapter Secretary

Board Meeting of March 5, 2008

Officers and Board Members Present

Kim Koch, VP,
Steve Keen, Secretary
John Hodoway, BOG, Research Promotion Chair
Charles Wetzler, BOG
Marc White, BOG

Committee Chairs Present

James Dayer, Programs Chair
Tony Demarco, Social Chair
Melanie Richardson, Reception Chair
Mark Ring, Newsletter Editor

Board Meeting Minutes

Kim Koch opened the meeting by requesting reports from officers and committee members.

Kim Koch reminded everyone of the upcoming CRC meeting in Shreveport.

Nominees for next year's board members and officers are listed in the current newsletter and will be announced in the meeting today.

Applicable committee chairs should log into ASHRAE and update PAOE points before next months meeting.

Kim Koch submitted the treasurer's report which was accepted as presented and passed by acclamation.

Kim is working with the nominating committee to finalize the list of Committee Chair persons.

Past Presidents night is confirmed for Dickey Stephens Field.

Invitations for the upcoming Integrated Building Design web cast are being emailed to the membership.

The hospital design Seminar will be held at UAMS on Friday 3-28-08 from 7:15 AM to 4:00 PM. The cost is \$55.00.

Mark Ring reported the deadline for submissions to the April newsletter is March 20, 2008.

Kim will coordinate with the Historian to put together a slide show for CRC.

Chance requests all awards to be turned into him for the upcoming CRC meeting.

Announcements for the regular meeting include, upcoming Hospital Design Seminar, Integrated Building Design webcast, CRC and next months meeting (tour at ADEQ).

Kim Koch adjourned the Board Meeting.

In the monthly meeting technical session Ed Tinsley discussed retrocommissioning and its benefits for two hospitals. Included in retrocommissioning should be a baseline performance of the facilities energy use prior to the retrocommissioning efforts. Ed discussed the investigation process to determine the operating use of the building and any suggested changes in the operation that could improve the efficiency, comfort or utility costs. In these facilities the existing AHU's operation and design, controls functionality, equipment capacities and hydronic systems were analyzed. The results included improvements in the ventilation air system, elimination of unnecessary simultaneous heating and cooling, improved balancing of the water flow and improved functionality of the variable speed pumping sys-

Arkansas Chapter February Meeting Minutes

(Continued from page #)

which on an annual basis use no more energy than is provided by on-site renewable energy sources.” A forum on Jan. 23 explores other definitions and the impact of such buildings on the environment. Guidance on how to get there is featured in the technical program at ASHRAE’s 2008 Winter Meeting, Jan. 19-23, New York Hilton, New York City. For complete meeting information, including abstracts on all technical program sessions, visit www.ashrae.org/newyork.

Bill discussed the Commercial Building Energy Consumption Survey, CBECS, standard and the high performance building target of net zero by 2031 and a 2030 challenge for carbon neutral by 2030. In order to meet the goals set for net zero energy buildings the design standard must be changed. Integrated Design brings the entire design team together to design buildings. In this method the entire design team is communication and focusing on efforts to reduce energy consumption. Modeling of a buildings energy use must also be a standard design practice. The ASHRAE web site and www.energy.gov have free download listing the building and design standards including modeling tools for energy use.

Meeting was adjourned.

Arkansas Chapter March Meeting Minutes

(Continued from page 10)

tems. The retrocommissioning efforts resulting in reduced operating cost, reduced capital improvement cost, improved operating schedules for the HVAC equipment and improved building pressure control to mitigate infiltration.

Scott Malhnis with Munters presented the program discussing pool dehumidification and energy recovery. Designs of pool HVAC systems must meet the proper pool space temperature and humidity related to the desired pool water temperature. ASHRAE has suggested space conditions to maintain based on pool water temperatures. The pool environment should be slightly negative in relation to adjoining spaces to contain odors in the pool space. The pool HVAC equipment is intended to provide dehumidification and sensible cooling. With some HVAC equipment the designer can consider the use of outside air when the dew point and temperature is less than the space conditions. Sensible heat recovery of the space exhaust air should also be considered to reduce the operating costs of the Pool HVAC equipment. Heat recovery can be utilized by the use of return air to provide reheat through a balanced return air/exhaust air system using heat pipes. Pre-manufactured units are available to accomplish these energy saving methods of heat recovery. Using 100% fresh air and heat recovery during applicable period can produce significant energy savings for the user.

Meeting was adjourned.

ASHRAE Press Release

Submitted by:

Wendy Angel—ASHRAE Public Relations



ASHRAE and USGBC Cosponsor Washington Fellowship

Applicant to work in government advisory role ASHRAE and USGBC Cosponsor Washington Fellowship

ATLANTA – The American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) and the U.S. Green Building Council (USGBC) have joined forces to sponsor a one-year fellowship in Washington, D.C., that will allow the participant to work in the federal government in a technical advisory role. Members of ASHRAE or USGBC may apply.

Possible placement areas include Congress, a federal agency such as the Department of Energy, Environmental Protection Agency or the General Services Administration, or the White House Office of Science and Technology Policy.

“Federal government fellowships provide a valuable public service to the nation while at the same time providing engineers and scientists with a unique opportunity to participate directly in the policy-making process,” says Doug Read, ASHRAE program director of government affairs. “This is an exciting, rewarding, and educational period in their professional careers. This enriching experience enables fellows to bring back to their employers an insider’s perspective on government decision making that can contribute significantly to the mission and vision of the organization.”

“The fellowship is designed to educate participants on the inner workings of federal policy-making,” said Jason Hartke, director of public policy, U.S. Green Building Council. “The fellowship is an opportunity to provide scientific guidance and analysis to decision-makers, and to increase the visibility and involvement of scientists and engineers in the public policy arena.”

The fellowship runs from September through August 2009, and an orientation is conducted through the American Association for the Advancement of Science. A \$50,000 stipend will be provided to the selected fellow.

Candidates should possess a doctoral or other terminal degree in engineering or another building-related scientific discipline. Final placement of the selected fellow depends on the needs of the government offices and agencies at the time as well as on the skills and experience of the applicant.

The deadline for applications is May 1, 2008. ASHRAE or USGBC members interested in applying for the fellowship should contact Doug Read, ASHRAE program director of government affairs, at 202-833-1830 or dread@ashrae.org.

ASHRAE Public Relations

Dear ASHRAE Colleague:

Last month, I sent you an email, encouraging you to download the *Advanced Energy Design Guide* series now available as free electronic download products. I'm pleased to inform you that the response has been overwhelming.

So far, more than 34,000 *Advanced Energy Design Guides* have been downloaded. The total downloads by ASHRAE members is 17,561.

Because of this demand, volume was so high that many members had trouble accessing the downloads. If you have not had a chance to download the guides, I encourage you to do so. We are making these free electronic downloads available to provide our members and the building community with the tools to achieve low-energy, environmentally responsible, high-performance buildings. The guides have provided 30 percent energy reduction guidance for small retail buildings, small office buildings and K-12 school buildings.

Simply click on this link (www.ashrae.org/freeaedg) to go to the download page. If you would like something for your bookshelf, full color print copies may still be purchased from the ASHRAE Bookstore accessible through the same link.

These free electronic books are being made available in partnership with the U.S. Department of Energy, the Illuminating Engineering Society of North America, the American Institute of Architects and the U.S. Green Building Council. I'd like to thank our partners for their assistance in developing their guidance, as well as thank the volunteers who were directly engaged in development of the technical guidance.

ASHRAE also has sent free print copies of the *Advanced Energy Design Guide for K-12 Schools* to more than 14,000 school systems in the United States as part of the Society's effort to advance energy efficiency and promote better learning environments in our schools.

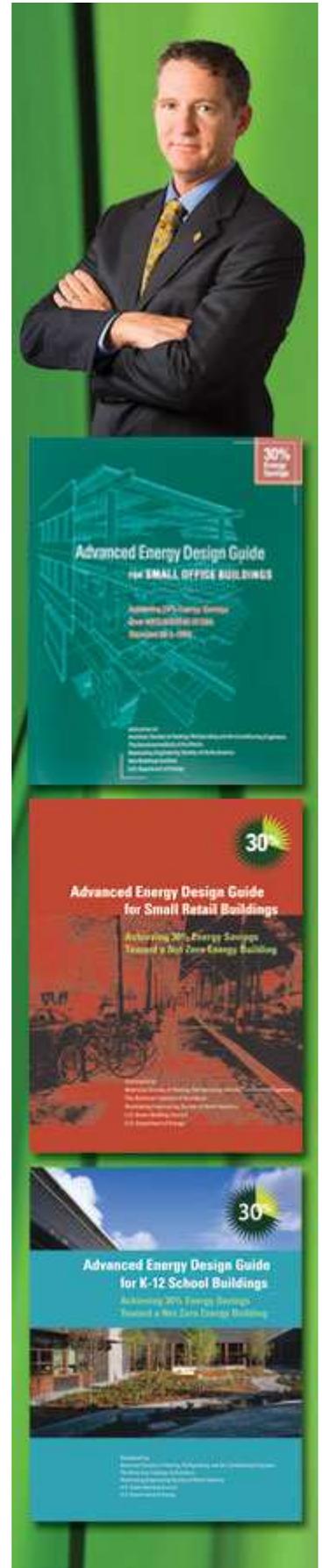
We currently are developed guides related to small warehouses and self-storage buildings and highway lodging. In addition we are also working on a new *Advanced Energy Guide for Existing Buildings* that will help building owners and managers achieve at least 30 percent energy savings in existing buildings. Our next step is to progress to the 50 percent energy reduction guides starting later this year. After the 50 percent series, we will progress to net-zero energy building guidance.

We encourage you to send the link to your built environment colleagues, encouraging them in turn to pass along the free download link themselves. Working together we can spread the important guidance and case studies in these design guides to promote better practice for a more sustainable built environment.

Thank you,



Kent Peterson, P.E., Fellow ASHRAE
ASHRAE President 2007-08





2008 Arkansas ASHRAE Spring Golf Tournament



Friday May 9th "Shotgun Start" 12:30 pm
>Stonelinks Golf Course<
North Little Rock, Arkansas

Entry Fee: \$300 per team (4 players per team)
Includes cart, refreshments, and lunch at 11:30.

Format: 4-Man Scramble (First 24 teams)
Mulligans can be purchased for \$40/team. (2/player)
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: _____



2008 Arkansas ASHRAE NW Section Spring Golf Tournament



Friday April 18th "Shotgun Start" 1:00 pm
The Creeks Golf Course
Cave Springs, AR

Entry Fee: \$320 per team (4 players per team)
Includes greens fees, cart, mulligans*, unlimited refreshments,
and lunch.

*Each player will receive 2 mulligans with entry fee.

Format: 4-Man Scramble (First 24 teams)
• Ties will be broken by score and hole handicaps.
• 2 putt rule (once ball is on green)

Prizes: 1st, 2nd, 3rd place teams.
Long Drive (in fairway) and 2 Closest to the Pin.
Putting Contest ("at the turn")



Fill out form and e-mail bdye@trane.com or fax (479) 361-5977 to Ben Dye. All
players' names and money must be received by **Friday, April 4th.**

**Please make checks payable to "Arkansas ASHRAE". Registration and
Entry Fees may be mailed to Benjamin Dye at:**

**2499 S. Maestri Road
Springdale, AR 72762
Contact Benjamin Dye at: 479.361.2030**



 **Player 1:** _____
Player 2: _____
Player 3: _____
Player 4: _____

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

___ I will sponsor a hole - \$100. Includes hole sign & recognition in ASHRAE
newsletter

___ Corporate Sponsorship -\$200. (There will be a special area near the
scoreboard to recognize corporate sponsors.) Banners are allowed for corporate
sponsorship.

___ I will sponsor a U of A Student Team for Dr. Nutter (\$175)

___ I will donate \$_____ for prizes and awards

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

All contributors will be recognized in the Arkansas ASHRAE Newsletter. All proceeds go to **Arkansas
ASHRAE.**

Name: _____ .Company: _____

Signed: _____ .Date: _____

Phone: _____ .Fax _____ Email _____

\$ Enclosed: _____



2006 Arkansas ASHRAE NW Section Spring Golf Tournament



Special Scoring Opportunities
(Be sure to bring some extra cash!)



Tee Busters Available - \$5 each (Limit 1 per player)

This allows a player to move to the most forward Tee on any hole other than designated closest to the pin or long drive holes.

Putting Contest (\$5 buys three putts)

At the turn, each player will have an opportunity to purchase 3 putts for \$5. All those who hole the putt out will be entered into a post round "putt off" to determine the winner. Winner will take home half of the putting contest entry fees.

Long Drive Competition (Hole #9)

Prize to be announced.

2 Closest to the Pin Holes (#2 and #17)

Prize to be announced.

End of Round Prize Raffle

Everyone entered will receive a raffle ticket and will be eligible to win.

