



The Razorback Report

www.arkansasashrae.org

Volume XIX, Issue 7, March 2008

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

MARCH MEETINGS

Northwest Arkansas

Date: Thursday, March 6th

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 - "Pool Room Dehumidification" - Scott McGinnis

Central Arkansas

Date: Wednesday, March 5th

Loc: Camp Aldersgate

Cost: \$15.00 / person

Schedule:

10:30 am Board Meeting

11:30 am Tech Session: "Retro Commissioning—Costs & Benefits" - Ed Tinsley

12:00 pm Lunch

12:15-1:00 pm Program - "Pool Room Dehumidification" — Scott McGinnis

The President's Message

By Steve Titus

Chapter President

March is here spring is coming, and that means getting back outdoors. As usual, Tony is planning a great golf outing for us this spring, so start looking for information and sign your teams up early. It is going to be a great time, and as always benefit ASHRAE research.

This month is also a very important time in our chapter, as we honor a distinguished member. Jim Pitts is retiring, and we will be hosting a roast and toast for him with the 100% of the proceeds benefiting ASHRAE research. Not only will it be a great evening, but it will pay due honor to a gentlemen we all know well. He has been a great friend and colleague of many in our chapter for many years. I am sure you will not want to miss a chance to send him off in style.

I also want you to be aware that time to register for CRC is here. Since it is in Shreveport, it is very close this year. In addition to having a lot of fun at the dinners, our own Bill Harrison will be speaking as kind of a dry run for his year as Society President. The Shreveport chapter has also put together an incredible line up of expert speakers on Net Zero Buildings. It will be a long time before you have an opportunity to hear speakers of this caliber without attending a Society meeting. It will be a great way to get a head start on PDHs for next years license renewal as well.

I look forward to seeing all of you Wednesday.

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ASHRAE SPRING GOLF TOURNAMENT

At StoneLinks in
North Little Rock

**SEE PAGE 5 INSIDE
FOR MORE DETAILS!!!**

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	Parallel Pumping Systems	Bill Lowery	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

Refrigeration

Submitted by:

Miguel Purdy - Refrigeration Chair

Montreal Protocol Update

On September 21, 2007, the 191 parties to the Montreal Protocol reached an historic agreement in Montreal on an amendment to accelerate the phase-out of ozone depleting substances (ODSs), including hydrochlorofluorocarbons (HCFCs) used in the HVAC industry.

This amendment demonstrates the continued consensus and increased vigilance of the Parties in eliminating ODSs, without exception, to restore the ozone layer. Because ODSs are also potent greenhouse gases, the amendment offers a twin benefit that will result in savings of several billion tons of equivalent CO₂ greenhouse gas emissions.

The previous phase-out schedule had already begun to reduce production and consumption of HCFC refrigerants in developed countries, so few changes were made. However, the amendment adopted in September represents a significant acceleration in reductions for developing countries. It also foreshadows further reductions by requiring scheduled reviews in 2015 (developed countries) and 2025 (developing countries). These reviews will be used to determine if the production of service quantities will be required beyond the phase-out of HCFCs in new equipment. This raises the possibility that HCFC-123 production could cease in 2020 in developed countries, and that HCFC production could cease in 2030 for developing countries – ten years ahead of the current phase-out schedule.

Revised phase-out schedule

The first change in the phase-out schedule occurs in 2010 when consumption will be limited to 25% of 1996 levels versus 35%. This coincides with the phase-out of HCFC-22 in new equipment in 2010.

The second change occurs in 2015 when the Parties have agreed to a scheduled review of the need for further production and/or export of all HCFC refrigerants after 2020 for servicing. Beginning in 2020, all HCFC refrigerants will be phased out for new equipment in developed countries. For developing countries the changes are significantly greater. Under the previous phase-out schedule, consumption and production of HCFC refrigerants would be frozen in 2016, and no stepped reductions would occur until their complete phase-out in 2040. The new phase-out schedule calls for consumption and production to be frozen at 2013 levels, with stepped reductions in 2015 (10%), 2020 (35%), 2025 (67.5%) and 2030 (97.5% – leaving 2.5% for servicing between 2030 and 2040).

Here, too, the Parties have agreed to a scheduled review in 2025 of the need for further production and/or export of all HCFC refrigerants for servicing.

Beginning in 2030, all HCFC refrigerants will be phased out for new equipment in developing countries.

Potential outcomes of scheduled reviews

The scheduled reviews called for in the amended phase-out schedule will be used to determine if production of service quantities will be required beyond the phase-out of HCFCs in new equipment in 2020 (developed countries) and 2030 (developing countries). There are two potential outcomes of these reviews:

1) No change is made and the phase-out schedules will stand.

2) Production of the service tail is eliminated. In this case, all HCFCs will be phased out completely in 2020 in developed countries and 2030 in developing countries – ten years ahead of the current phase-out schedule. Thereafter, all HCFC refrigerant required for service will have to be obtained from reclaimed stock.

(Continued on page 4)

Refrigeration

(Continued from page 3)

Why the accelerated phase-out?

Several factors contributed to the unanimous decision to accelerate the phase-out of HCFC refrigerants. On February 22, 2007, the United Nations Environmental Program (UNEP) released a Synthesis Report of the 2006 assessments of the Montreal Protocol by the Scientific Assessment Panel, the Environmental Effects Assessment Panel and the

Technology and Economic Assessment Panel.¹ According to the report, updated estimates from the 2006 assessment of the Montreal Protocol showed that, with continued compliance to the pre-amendment phase-out schedule, Antarctic ozone would return to pre-1980 levels (a commonly used benchmark for ozone recovery) in 2060-2075. This represents a 10-25 year delay versus the estimate from the 2002 assessment. The growth in the use of HCFC refrigerants – particularly in developing countries which account for 146 of the 191 Parties to the Montreal Protocol – threatened further delays in ozone recovery. Experts estimate the use of HCFC refrigerants may have doubled by 2015 under the previous phase-out schedule. Finally, mounting evidence has demonstrated that because ODSs are also potent greenhouse gases, their phase-out benefits both ozone recovery and global warming/climate change. On March 20, 2007, the National Academy of Sciences (NAS) released a report titled *The Importance of the Montreal Protocol in Protecting Climate*.² Authored by representatives from the Netherlands Environmental Assessment Agency, the U.S. Environmental Protection Agency (EPA), the U.S. National Oceanic and Atmospheric Administration and DuPont Fluoroproducts, the report quantifies the impact of the phase-out of ODSs on global warming/climate change. According to the report, “The climate protection already achieved by the Montreal Protocol alone is far larger than the reduction target of the first commitment period of the Kyoto Protocol.” Accelerating the phase-out of HCFCs was among the options recommended in the UNEP Synthesis Report as having the largest potential to bring about a return to pre-1980 ozone levels sooner. The report further notes that technically and economically feasible substitutes are available for almost all ODS applications, including those using HCFCs.

HCFCs phased out - no exceptions for HVAC applications

Faced with the potential for further delays in ozone recovery and the possibility of achieving further climate change benefits, six proposals were put forth at the September 2007 Meeting of the Parties in Montreal. Included among these proposals were requests for critical use exemptions and exceptions for HCFC-123 used in the HVAC industry. The final amendment is a combination of these various proposals and represents a commitment to reduce the use of HCFC refrigerants and accelerate their phase out. None of the critical use exemptions or exceptions for HCFC- 123 are included in the final amendment.

Conclusion

The unanimous decision by the 191 parties to the Montreal Protocol to accelerate the phase-out of HCFC refrigerants sends a strong message that ozone recovery and climate change are recognized globally as environmental concerns that require immediate action. It also recognizes that technically equivalent and economically feasible alternatives are available for all HVAC equipment using HCFC refrigerants. While the majority of the changes were designed to significantly accelerate reductions of HCFC use in developing countries, the new phase-out schedule foreshadows further reductions by requiring scheduled reviews of the need for service quantities in 2015 (developed countries) and 2025 (developing countries). If production of service quantities ceases as a result of these scheduled reviews, all HCFC refrigerant required for service will have to be obtained from reclaimed stock.

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

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.**

Editors Note: That is not an actual picture of StoneLinks. I couldn't find a decent picture of the course.

ASHRAE Satellite Broadcast

The webpage for the April 16, 2008 ASHRAE Satellite Broadcast, “**Integrated Building Design – Bringing the Pieces Together to Unleash the Power of Teamwork,**” was launched on January 2nd. Please visit www.ashrae.org/IBDbroadcast for information regarding Registration Dates, Frequently Asked Questions, Presenters, and the Broadcast Program.

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>

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 3rd** to **Steve Titus** : sctitus@aristotle.net or via FAX at 501-375-4628

For reservations to the Northwest Arkansas Chapter meeting send this form by **Tuesday, March 4th** to **Sam Browning** : sbrowning@trane.com or via FAX at 479-361-5977.

MEMBER NAME (PLEASE PRINT)	CENTRAL March 5th	NW ARK March 6th	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 March meeting online at www.arkansasashrae.org

March Meeting Topics

Tech Session - "Retro Commissioning — Costs & Benefits" - Ed Tinsley, PE

Program - "Pool Room Dehumidification" - Scott McGinnins

Meeting Sponsor: TBA

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 Meeting Minutes

Submitted by

Steve Keen, - Chapter Secretary

Board Meeting of January 7, 2007

Officers and Board Members Present:

Steve Titus, President

Kim Koch, VP, Programs Chair, Technology Chair

Chris Ahne, Treasurer

Steve Keen, Secretary

John Hodoway, BOG, Research Promotion Chair

Committee Chairs Present

James Dayer, Programs Chair

Bill Simpson, Student Activities Co-Chair

Melanie Richardson, Reception

Mark Ring, Newsletter Editor

Joel Funkhouser, Membership Chair

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 discussed a proposal by Alan Hope to have a retirement function of long time ASHRAE member Jim Pitts. Alan will organize the function and asked that it be sanctioned by the local ASHRAE chapter. Steve Keen made the motion, seconded by Kim and approved by voice vote.

Kim also mentioned Bill Harrison will be the featured speaker at next months joint ASHRAE/CSI meeting.

April's meeting will be a walk through of the new Arkansas Department of Environmental Quality Building.

The March meeting will be a discussion on pool dehumidification.

The May meeting will be on May 16 at Dickey Stephens Park. The May meeting will be past president's night.

Everyone was encouraged to invite USGBC members to the joint CSI/ASHRAE meeting in February.

The ASHRAE board meeting will begin at 4:30 PM and the business meeting will begin at 6:00 PM.

The program will begin at 6:15 PM. The meeting location is at the Train Station. The cost will be \$20.00 per person.

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.

The deadline for next month's newsletter entries is January 17, 2008

Tony Demarco discussed the spring golf outing being planned for May. Tony is working with a few different courses trying to pin down a date. He hopes to have final plans at the February meeting.

Steve Titus adjourned the Board Meeting.

(Continued on page 15)

ASHRAE Press Release

Submitted by:

Jodi Dunlop - Public Relations



ASHRAE and BOMA International Sign Memorandum of Understanding

Partnership will promote mutual interests of engineering and building operations and management

ATLANTA – ASHRAE and the Building Owners and Managers Association (BOMA) International are pleased to announce the signing of a Memorandum of Understanding (MOU) in recognition of shared technical interests to foster superior building performance. Both organizations will work together to achieving, among others, the following goals:

- Identify opportunities for shared operation services
- Identify opportunities to collaborate on product development, and to give presentations at each other's conferences
- Where mutually beneficial, jointly promote educational programs to members and jointly identify, create and identify new products and services
- Encourage continuing dialogue between ASHRAE and BOMA at national, regional and local levels on issues of importance to engineers and building professionals
- Encourage collaborative and cooperative activities to promote continuing professional development

BOMA and ASHRAE commit to support each other and fully participate in standard development areas, initially centering around ASHRAE standards 62.1, 90.1, 180P and 189.1P working within the ANSI consensus standards development process.

"We are pleased to collaborate with ASHRAE and work toward our shared goal of promoting superior building performance," said BOMA International Chairman and Chief Elected Officer Brenna S. Walraven, RPA, CPM, executive managing director, national property management, USAA Real Estate Company. "ASHRAE and BOMA are on the forefront of developing standards that significantly impact building owners and managers, and we look forward to working more closely with them on these matters."

"BOMA and ASHRAE share many of the same objectives and we are excited to strengthen our relationship" says ASHRAE President Kent Peterson, P.E., vice president and chief engineer of P2S Engineering. "We are all working toward optimal performance of both new and existing buildings and this partnership will be beneficial for both ASHRAE and BOMA members."

Chapter Nominating Committee

Submitted by:

Sam Cummings — Nominating Committee Chair

Your nominating committee consisting of Chris Call, Alan Hope, John Oliver and Sam Cummings, Chair, recommend the following slate of Officers and Board of Governors for 2008-2009:

President	Kim Koch
Vice President	Chris Ahne
Treasurer	Steve Keen
Secretary	Marc White
Board of Governors	Charles Wetzler
Board of Governors	Chris Shaw
Board of Governors	Don Huggins
BOG/Delegate	John Hodoway
BOG/Alternate	Steve Titus

ASHRAE Press Release

Submitted by

Jodi Dunlop - Public Relations

ASHRAE High-Performance Building Design Professional Certification Now Available

ATLANTA – ASHRAE’s new certification program provides the necessary training and tools for the design of high-performance buildings that live up to their performance capability.

Registration is now open for ASHRAE’s high-performance building design professional certification. The first exam will take place June 25 at ASHRAE’s 2008 Annual Meeting, June 21-25, Salt Lake City. Exams at testing centers around the world will become available in the fall. For more information or to register, visit www.ashrae.org/certification.

“This new certification program will allow practitioners to demonstrate a well-rounded understanding and knowledge of how HVAC&R design is integrated into high-performing buildings to achieve the overall goal of sustainable practice used in green buildings,” Kent Peterson, P.E., ASHRAE president, said. “The program combines the criteria of ASHRAE Standards 90.1 (energy efficiency), 62.1 (ventilation) and 55 (thermal comfort) with the innovative approaches included in the *Advanced Energy Design Guide* series in an integrated design approach that strives to achieve practical, cost-effective high-performance building designs.”

The content of the exam includes sustainability concepts, HVAC and sustainable processes and environmental improvement programs and rating systems; energy analysis; indoor environment; controls and monitoring; benchmarking with performance metrics; water conservation, commissioning in sustainable construction; and operation and maintenance of high-performance buildings.

The high performance design professional certification is renewable every three years, and those certified must earn 45 professional development hours during that time.

“This program has been designed so that it is inclusive of global design approaches and tools,” Peterson said..

Sustainability

Submitted by:

Tom Hanlon — Sustainability Chair

Sustainability is the focus of our April meeting with a building tour of the new ADEQ building in North Little Rock. ADEQ was recently awarded LEED Gold status, so were in for a real treat. Our meeting will start with a "Tech Session" that is a discussion of the project by the design team, covering items like the owners project requirements, integrating "Green" products and methods into the project, developing the basis of design and involving the construction team early in the process.

During lunch we'll have a short program on the Commissioning and Utilization of the building. This will be a joint presentation by TME Commissioning Staff and ADEQ Staff.

This followed by a brief tour, viewing building interior finish, lighting systems, mechanical systems & controls.

In advance we want to Thank ADEQ Staff for the use of the building and congratulate them on Gold status.

Membership Report

Submitted by:

Joel Funkhouser -- Membership Chair

I'd like to welcome our newest student member: Thanh Ngyen of Nashville, Arkansas. 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.

ASHRAE Research Fund Raiser - Roast & Toast of Jim Pitts

Location: Little Rock Country Club

Date: March 13, 2008

Time: 5:30-6:15 Social

6:15-8:00 Dinner and Roast and Toast

Costs of Admission is a donation (tax deductible) to ASHRAE RESEARCH of \$25

Roast and Toast of Jim Pitts

Emcee is Jim Monk

Roasters are Sam Cummings and Joe Janowski

RSVP to Kim Koch at kkoch@tmecorp.com

Louisiana Lagniappe
Region VIII CRC 2008
Shreveport, LA

Have you seen this
yet???

[http://www.youtube.com/
watch?v=S4QWbA4mQXA](http://www.youtube.com/watch?v=S4QWbA4mQXA)

Check it out!

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/>



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: _____

Arkansas Chapter Meeting Minutes

(Continued from page #)

In the monthly meeting technical session Chris Call discussed the use of expansion joints and anchors. The ESMA, Expansion Joint Manufacturers Association publishes standards for the use and manufacturing of these products.

Anchors are used to restrict pipe movement by anchoring the pipe in at a designated point. The pipe is intended to move toward the expansion joint. The expansion joint is designed to compress or elongate based on the pipe movement. The pipe guides are used to guide the pipe toward the expansion joint and

limit lateral movement. Manufactures data is available for pipe expansion based on media temperature and pipe material. Manufactures also have suggested methods to apply anchors, guides and expansion joints.

Announcements:

February joint meeting with CSI to be held at the Train Station, 6:00 PM February 6, 2008

Members are invited to a Web Broadcast at Trane Arkansas for integrated building design.

Kim will be bring information on the nominated committee in the following months

Bill Harrison will be the program speaker at next month joint meeting. Shreveport, LA will host the 08 CRC meeting. Bill is the current ASHRAE President and encourages the local chapter members to visit and participate in this year's CRC. The theme this year will be "Carbon Neutral Buildings".

Wal-Mart's head of refrigeration was the feature program speaker. He is part of Wal-Mart' design and construction group that investigates and recommends methods for improving HVAC construction methods in Wal-Mart's stores and supercenters. The presentation discussed methods used to design refrigeration systems for food product displays. Methods include reducing piping lengths enabling the reduction in refrigerants used. He also discussed the needs to reduce operation and maintenance costs.

Slight reductions produce significant savings when applied to the 1000's of Wal-Mart facilities.

Consequently, not maintaining these facilities in good working order, including using the most efficient methods can result in exponentially higher costs. Wal-Mart is an industry leader in the refrigeration field working with other partners, including DuPont, to develop efficient environmentally save refrigeration systems.

Meeting adjourned.

"Best Practice HVAC Design Consideration and Criteria (Healthcare) Best Practice Applications of HVAC Systems (Healthcare)"

An ASHRAE Continuing Education Seminar

When: Friday, March 28th, 7:15 AM to 4:00P.M.
Where: University of Arkansas Medical Sciences (UAMS)
Pauly Auditorium

Sponsored by: Arkansas Chapter of American Society of Heating, Refrigerating and Air Conditioning Engineers, Inc. (ASHRAE).

Seminar Outline:

Session 1- Design Considerations & Criteria

- * Infection Control & Physiology
- * Life Safety
- * Disaster, Fire Protection
- * Infection Control During Construction (ICRA)
- * Other Systems
- * EPS, Cooling Triage

Session 2 - Applications

- * Intro & Recap Session 1 (Certification Exam)
- * Steam
- * CHW
- * Energy Conservation
- * Commissioning
- * OR Design
- * Imaging Room Design
- * Isolation Room Design
- * Intensive Care, Pharmacy, Lab, Emergency, Sterile, etc.

Registration and Breakfast Begins at 7:15am ends at 7:59am
Presentation Begins at 8:00am
Morning Break (15min) at 10:00am
Lunch Break (45 min) at 12:00pm
Afternoon Break (15min) at 2:00pm
Program Ends at 4:00pm

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Participants will receive certificates and (6) P.D.H.s upon completion.

Presenter: Mr. Dan Koenigshofer, P.E. Vice President IES Engineers – Dewberry. Dan is a Graduate of the University of California – Davis (BS Physics) and University of North Carolina-Chapel Hill (MS Public Health). See complete Bio on the Arkansas Chapter web site.

Fee: \$55.00 per person. Continental Breakfast and Lunch will be provided. Class size is limited to 70. Please contact Chris Galloway @ TME, Inc. 666-6776 or cgalloway@tmecorp.com. Make checks payable to Arkansas ASHRAE.

Fax Registration information to Chris Galloway at (501) 663-8888 or email to cgalloway@tmecorp.com (pay at the door) or mail to Chris’s attention @ TME, Inc. 5800 Evergreen Dr., Little Rock, Ark 72205. Registration must be received by March 18th.

.....Registration Information.....

Yes, I will attend the “Continuing Education” seminar on March 28th.

Name _____

Company & Phone # _____