



THE RAZORBACK REPORT

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

www.arkansasashrae.org

Volume XIII, Issue III, November 2001

The President's Message

by Tracy E. Hayes

The October meeting was very interesting, entertaining and well attended by both the Central and North-west Arkansas membership. I would like to thank Tim Knepp with Carrier-Bryant of Arkansas for providing our Chapter another excellent speaker. It is with the help of members like him that we continue to improve and provide programs of great interest and participation. The November meeting will be presented on "Design Considerations for Under Floor HVAC Systems", the program will be presented by representatives from both York International and Tate Access Floor Systems. Under floor air distribution is an alternative building technology that is really booming in the west and shows signs of growing rather rapidly in this part of the country as well. I am sure there will be something to be learned by all engineers, both old and new. See Programs for more meeting information.

The 2001 NEBB Recertification and ASHRAE Educational Seminar was a great success with over 50 persons attending the day long event. A special thanks goes to Tom Hanlon for making all the necessary speaker and seminar arrangements. Chris Ahne, Student Activities Chair, and his committee had been making some campus visits around the state promoting ASHRAE and the HVAC industry. Please read all the committee articles in this newsletter for more detailed information regarding the great work these committee chairs are doing to promote ASHRAE and especially the Arkansas Chapter. Again I urge everyone to "Accept the Challenge" and volunteer to do more for your Chapter by serving on at least one of the various committees.

It is time to make arrangements for the 2002 ASHRAE Winter Meeting that will be held from January 12-16 in Atlantic City. Anyone planning to attend the 2002 ASHRAE Winter meeting in Atlantic City for the first time should contact me for a complimentary discount pass worth \$100.00 towards meeting registration which Society has made available to first time attendees.

Again want to encourage you to make every effort to attend at least one of our November meeting and expand your knowledge about this alternative building technology. Please feel free to contact me should you have any questions or concerns and God bless America!

November Meetings

CENTRAL ARKANSAS

Date: Wednesday, November 7th
Location: Little Rock Club, Regions Building
Cost: \$16.00 / person
Schedule:
10:30 AM Board Meeting
11:15 AM Technical Session - "Environmental Enterprises"
11:45 AM Lunch Buffet
12:15 PM Program - "Design Considerations for Under Floor HVAC Systems"
by: York International

Meeting Sponsor: **Airetech Corporation**

NORTHWEST ARKANSAS

Date: Thursday, November 8th
Location: Sparks Regional Hospital, Ft. Smith
Marvin Altman Fitness Center
Schedule:
5:30 pm Social
6:00 pm ASHRAE Business / Dinner
6:40 pm Program "Design Considerations for Under Floor HVAC Systems"
by: York International

Northwest Corner

By: Marshall Moody

Thank you to all those who attended the last meeting. We almost ran out of room. That is always a good problem. I trust that Mr. Int-Hout's presentation and entertainment made the evening very worthwhile.

Our next meeting will be held at Spark's Hospital on Thursday, November 8. Please check out www.arkansasashrae.com. We have finally ironed out the details (location, program, etc.) for all the programs for the balance of 2001-2002. As always, you will receive e-mail invitations with all the details. The social will begin at 5:30. Please bring CASH. We will be eating in the cafeteria.

As you will hear numerous times, please make plans and budget accordingly to attend the Chapter's Regional Conference which we are hosting this year in Little Rock. I believe it is April 25-27. This is the perfect opportunity to step up and support our Chapter. It will be a fantastic time! CEUs will also be available.

Thanks for the support! God bless America and our military personnel.

October Board of Governors, Officers & Committee Chairmen Meeting Minutes

By: Rick Sellers, Chapter Secretary

Call to Order: President Tracy Hayes called to meeting to order at 4:30 p.m. The meeting was held on October 2, 2001 at The Little Rock Club. Those present were: Tracy Hayes, Randy Moore, Rick Sellers, John Carter, Mike McClellan, Keith Wortsmit, John Hodoway, Chris Ahne, Chris Shaw, Russell Black, Wade Wetzler, Brett Bolan, Tom Hanlon, Chris Call, Chance Hollingsworth.

President: President Tracy Hayes opened the meeting and called for committee reports. The reports were presented as follows:

Vice President/Programs: Vice President/Program Chairman Randy Moore presented a review of the current programs schedule. The upcoming ASHRAE Std. 90.1 satellite broadcast was also discussed.

Secretary: Secretary Rick Sellers asked for a motion to approve the Meeting Minutes as published in the October Newsletter. The motion was made by John Hodoway and seconded by Wade Wetzler. The motion was voted on and passed.

Treasurer: Treasurer John Carter presented the revised budget for 2001-2002. A motion to approve the budget was made by Keith Wortsmit and seconded by Randy Moore. The motion was voted on and passed. Treasurer Carter also presented the monthly Treasurer's report.

Membership: Co-Chairman Chris Shaw asked for suggestions to entice new members or a possible bonus for bringing and/or recruiting new members.

Research Promotion: Research Promotion Chairman John Hodoway handed out a revised Research donor list. The list as published in the October newsletter was incorrect.

Historian: No report.

Honors & Awards: No report.

Student Activities: Chairman Chris Ahne announced he had a meeting scheduled on October 18th at ASU and that he was also guest lecturing at UA during the same week. Chairman Ahne also announced that UA had expressed interest in an ASHRAE student design project and concluded with a solicitation for help with the project.

TEGA: Chairman Tom Hanlon reminded those present about the NEBB Recertification & ASHRAE Educational Seminar on October 5th. Chairman Hanlon announced that the Chapter Technology Award application will be available on the Chapter web site. The intent is to make an award in the spring.

Newsletter: Chairman Wade Wetzler announced that October 21st would be the deadline for newsletter articles. All grass roots committee chairman are encouraged to

have an article.

Social: Chairman Chance Hollingsworth announced the fall ASHRAE Research golf tournament raised approximately \$ 4,500.00. Chairman Hollingsworth presented an idea to have corporate sponsored tables at Past President's night in an effort to raise money.

Reception: No report.

Webmaster: Chairman Brett Bolan announced the web site had about 160 hits from 23 different computers. The homepage, newsletter and schedule continue to receive the most hits.

CRC: Chairman Keith Wortsmit announced that the hotel, all meeting rooms, skeet and golf events were all secured. The committee is still working on the final budget. CRC flyers will be sent to all regional newsletter editors for inclusion in their newsletters starting in November. The Chapter web site will be updated to include the flyer.

Old Business: There was no old business.

New Business: President Hayes announced a complimentary pass for first time attendees to the winter meeting was available on the web site.

Adjournment: After no further new business President Hayes adjourned the meeting at 5:06 p.m.

October Arkansas ASHRAE Chapter Meeting Minutes

By Rick Sellers, Chapter Secretary

Call to Order: At 5:32 p.m. the Chapter meeting was called to order with 36 members and 2 guests in attendance. The meeting was held at The Little Rock Club on October 2, 2001. The program began with the Tech Session.

Tech Session: Mr. Dan Int-hout III presented the tech session on Selecting VAV Terminals for Acceptable IAQ. The session included information the proper application of manufacturers sound data, overhead heating pitfalls with regard to diffusers and temperature and a discussion of the 12 types of VAV boxes.

Program: President Hayes opened the general meeting at 6:33. President Hayes announced the upcoming ASHRAE/NEBB seminar, the upcoming ASHRAE Std. 90.1 satellite broadcast and the next meeting on November 7th. Membership Co-Chairman Russell Black reminded everyone of the Chapter Member data sheets and requested everyone fill one out. Research Chairman John Hodoway announced an incorrect list of Research donors was printed in the October newsletter and made corrected lists available to those interested. Student Membership Chairman Chris Ahne announced his upcoming trips to UA and ASU, announced the UA's student design project and solicited help from the member-

ship. He also announced there had been seven new student membership applications made. Social Chairman Chance Hollingsworth expressed thanks for the support for the fall golf tournament. CRC Chairman Keith Wortsmit announced CRC in Little Rock on April 25, 26 and 27, 2002. Mr. Dan Int-hout III presented the program entitled Designing for Occupant Acceptance. The program was an in-depth look at diffuser selection including stratification, return air location and ASHRAE Std. 55. The program also dealt with acoustics including the specifications, installation and operation. IAQ was looked at including filtration, source control and dilution. Also included was a presentation on the various pollutants including particulates, organics, gases, VOCs, moisture and outside air. A question and answer session followed.

Adjournment: With no further business the meeting was adjourned at 8:10 pm.

October Northwest Arkansas Section ASHRAE Meeting Minutes

By John E. Symonds

Northwest Section of Arkansas ASHRAE October 4, 2001 meeting was held at the A. Q. Chicken House, Springdale, Arkansas. Approximately 23 members and guests were present.

Mr. Marshall Moody called the meeting to order at 6:30 p.m. Marshall made the following announcements:

- A. Discussed the Northwest Section meeting schedule and meeting locations.
- B. Indicated that members could obtain chapter information on the web at www.arkashrae.org.
- C. Encourage our Section to make plans to attend the April 25-27, 2002 Region VIII CRC convention in Little Rock.

Marshal introduced Mr. Dan Int-hout with the Carrier Corporation. Dan provided an informative and humorous program on "Designing for Occupant Acceptance". In his program Mr. Int-hout discussed ADPI, how air device noise can be good, how dirt on an air device is not a bad thing and room air diffusion effectiveness. He proceeded to describe 1) the requirements for selecting air flows for minimum and maximum occupancy, 2) good design strategy for heating design, 3) the acoustic requirements found in ARI885-98 and ARI260, 4) the differences in noise criteria (NC) and room criteria (RC) and finally the effects of U.V. lights on contaminate growth and system static pressures.

Meeting was adjourned at approximately 8:30 p.m.

TEGA

By: Tom Hanlon

The annual ASHRAE / NEBB education seminar is history. We had 51 attendees, representing our chapter plus the NEBB chapters from Tennessee, Texas, Oklahoma, Louisiana, and Missouri. It was great exposure for our chapter and our state. The program was excellent with great presenters from Paco Pumps, Baldor Electric and The Trane Company. Thanks to all for your participation.

On to the Technology Awards, I have posted the Awards application form and instructions on our Web Site.

I think it would really be good for our chapter if many of the design firms and suppliers took the time to enter our competition. It's a great way to show off your work and engage in a bit of friendly competition. There's a lot of great, innovative projects done in the recent past and currently underway that we need to showcase. So let's do it. There are some real pluses to being an ASHRAE Technology Award winner. It has to be a great selling tool for future projects.

As you'll notice from the application form we have competition in several categories which gives each entrant a good chance for an award. We judge each category, then each category winner is placed into a competition for the best overall. These winners are also able to compete for the Regional Award, and with CRC in Little Rock this year we'd like to have many entries. So grab an application, look over your project list and submit one.

Our deadline for entries is Friday, January 4th 2002 @ 5:00pm. We'll begin the judging process the following week at the tech session of the January meeting. We'll allow each entry five minutes to present their entry to the membership and the judging committee as part of our tech session. It will be a great opportunity since this is a joint meeting with CSI. We'll continue to have these short presentations at our February and March meetings. We'll conclude the judging process prior to the April meeting and have the presentation of winners during our President's Night Boat Cruise.

Again, if any member or firm does a presentation to a civic or government group we can gain regional credits for the chapter. If you're doing a seminar let us know the details and we'll claim some chapter credit for your efforts.

Thanks

Research Promotion

by John Hodoway

We already have a number of contributors to ASHRAE Research for this year. This month's ASHRAE Journal is the annual research report and goes into much more detail than is available in this report. Thanks to those who have contributed. It's not too late for an Honor Roll pledge. You may e-mail me at jwhodoway@cromwell.com or fill out the pledge form on the chapter website at www.arkansasashrae.org. Your pledge will be recognized in the newsletter and on the website and your contribution will be recognized at the 2002 Research Awards presentation.

Honor Roll Contributors

(\$100 Individual / \$150 Company to \$249)

Glen Allen; Paul Briscoe; Tad Hankins; Tom Hanlon; Tracy Hayes; Chance Hollingsworth; Clyde Jester; Rick Sellers; Chris Shaw; Sam Weatherford; MPE Consulting Engineers

Other Research Fund Contributors

Fred Hardwick; Henry W. Wade

Student Activities

By: Chris Ahne

James McManners and myself went to Arkansas State University on Thursday, October 18th to present ASHRAE and the HVAC&R industry to the engineering students in Jonesboro. We delivered two presentations to the students. The first presentation was focused on the senior-level Heat Transfer class. Our topics covered HVAC principles, including a description of the refrigeration cycle and its components and also various HVAC systems that might be present in their future job places. Students also asked questions about current job opportunities, career and interviewing advice, and what led us into the HVAC industry. Eight senior mechanical engineering students and 2 faculty members were in attendance for this presentation.

The afternoon presentation was for the ASU College of Engineering. We presented to 35 students and 5 faculty members about ASHRAE as a professional organization. Our presentation topics were about ASHRAE history, current ASHRAE Society and Region VIII statistics, careers in HVAC, benefits of being a student member, and the future of our industry.

We had a great meeting with the folks at ASU and I believe that there is a lot of interest from the students in our industry. I want to thank James McManners for bringing our chapter this opportunity and for all of his hard work and preparation put into this meeting.

Best Regards,
Chris Ahne

Membership

By: Russell Black

Hey, Arkansas ASHRAE. We all need to use our professional contacts to help drive our membership numbers upward. Every business day each of us talks to several contacts that are excellent candidates to join our membership ranks: hospital plant engineers, control manufacturers, energy engineers, food plant engineers, design-build mechanical contractors, etc. As we go about our daily business, we need to be recruiting these business friends. Mention ASHRAE to them; invite them to a meeting. Most people are interested in expanding their professional network (they may just not be aware of opportunities). If you talk to ten contacts a day on the phone (probably a very low estimate!), mention ASHRAE to at least one of them. They will certainly be pleased that you think enough of them to invite them to a meeting of a highly respected organization.

2001-2002 Chapter Officers

<u>President</u>	Tracy E. Hayes	501-280-0404	fax: 501-280-9200
<u>Vice-Pres.</u>	Randy Moore	501-280-0404	fax: 501-280-9200
<u>Secretary</u>	Rick Sellers	501-834-3320	fax: 501-834-5416
<u>Treasurer</u>	John Carter	501-666-6776	fax: 501-663-8888

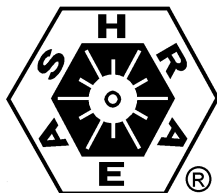
Board of Governors

Chris Call	501-663-8886
Jim Monk	501-376-7155
John Hodoway	501-372-9200
Ed Riddick III (Delagate)	501-666-7300
Mike McClellan (Alternate)	501-661-0621

Committee Chairs

Directory	Russell Black	501-327-2409
Membership	Chris Shaw	501-280-0404
Student Activities	Chris Ahne	501-661-0621
Programs	Randy Moore	501-280-0404
Historian	Richard Palmer	501-666-7300
Research	John Hodoway	501-372-2900
Honors & Awards	Alan Hope	501-666-6776
TEGA	Tom Hanlon	501-661-0621
Newsletter	Wade Wetzler	501-753-6652
NW Section	Marshall Moody	501-582-8239
NW Section	Bill Sharp	501-636-3545
Social	Chance Hollingsworth	501-374-5420
Reception	Eddie Finley	501-374-5420
Webmaster	Brett Bolan	501-661-0621

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Arkansas Chapter of ASHRAE
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In This Issue...

November Meeting Information
Committee Reports

*Land of the Free,
Home of the Brave*





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

Arkansas Chapter Meeting RSVP Form

ROUTING

Company Name: _____

Phone #: _____ Fax #: _____

Signed: _____

For reservations to the Central Arkansas Chapter meeting fax this form by **Friday, Nov. 2nd** to 501-280-9200 **Attn: Randy Moore**

For reservations to the Northwest Arkansas Chapter meeting fax this form by **Monday, Nov. 5th** to 501-582-4747 **Attn: Marshall Moody**

MEMBER NAME (PLEASE PRINT)	CENTRAL Nov 7 th	NW ARK Nov 8 th	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.

Program Summary

By Randy Moore, Vice President – Program Chairman

The Arkansas Chapter of ASHRAE appreciates Carrier-Bryant of Arkansas sponsoring our October Meeting. The technical session and program were entertaining and informative. We still have openings for several tech sessions that are excellent opportunities for the Chapter Membership to share knowledge and experience with fellow ASHRAE members. Please contact the program chair with any topics or candidates for a technical session presentation. We are pleased to announce that Airetech Corporation and Tate Access Floors will sponsor our November meeting with program and technical sessions that will present an overview of trends and developments in alternative Building technologies that deliver more flexible, reconfigurable space to users at significantly reduced operating and life-cycle costs. This presentation will focus on under floor air distribution using VAV under floor terminals and demonstrate how they contribute to savings while offering enhanced personal comfort and environmental control to building occupants.

CENTRAL CHAPTER MEETING SCHEDULE 2001-2002

<u>November 7, 2001</u> Wednesday Lunch Program: Design Considerations for Under Floor HVAC Systems Speaker: York International Tech Session: Environmental Enterprises Location: Little Rock Club Mtg. Sponsor Airetech Corp	<u>October 2, 2001</u> Tuesday Evening Tech Session: VAV Box Selection Program: Designing of Occupant Acceptance Speaker: Mr. Dan Int-Hout Location: Little Rock Club Student Night Mtg. Sponsor – Carrier-Bryant of AR	<u>November 7, 2001</u> Wednesday Lunch Program: Design Considerations for Under Floor HVAC Systems Speaker: York International Tech Session: Environmental Enterprises Location: Little Rock Club Mtg. Sponsor Airetech Corp.
<u>December 5, 2001</u> Wednesday Lunch Tech Session: Research Promotion Program: To Be Announced Location: Little Rock Club Research Promotion Night Meeting Sponsor – Trane Company	<u>January 8, 2002</u> Tuesday Evening - Joint CSI/BOMA Tech Session: TEGA Activity Report Program: Critical Environment Control Speaker: Franco Atassi - Siemens TEGA Night Location: Little Rock Club Meeting Sponsor – Powers of Arkansas	<u>February 6, 2002</u> Wednesday Lunch Program: Control System Design ASHRAE Standard 135 Speaker: Mr. Todd Cowles – Alerton Technologies, Inc. Location: Little Rock Club Meeting Sponsor - Northwest Controls
<u>March 6, 2002</u> Wednesday Lunch Program: UofA ASHRAE Research Project Report Speaker: Dr. Darin Nutter Location: Little Rock Club Meeting Sponsor – “Available”	<u>April 2, 2002</u> Tuesday Evening Program: ASHRAE Region VIII Report Speaker: Mr. Bill Harrison Region Location: Little Rock Country Club Past President’s Night Meeting Sponsor – “Available”	<u>May 7, 2002</u> Tuesday Evening Program: Sound and Vibration Analysis and Control Tech Session: Vibration Control Applications Location: To Be Announced Mtg. Sponsor – NEBB & Fluid Solutions

NORTHWEST SECTION MEETING SCHEDULE 2001-2002

<u>September 11, 2001</u> Tuesday Evening Program: Retrofit of Fayetteville Admin. Building Speaker: Mr. Greg Anderson, PE Green-Anderson Engineers Location: Arkansas Western Gas	<u>October 4, 2001</u> Thursday Evening Program: Demand Control Ventilation Speaker: Mr. Dan Inthout Location: Fayetteville Mtg. Sponsor – Climatic Corp.	<u>November 8, 2001</u> Thursday Evening Program: Design Considerations for Under Floor HVAC Systems Speaker: York International Location: SPARKS Hospital Altman Fitness Center - Classroom Mtg. Sponsor Airetech Corp.
<u>December 6, 2001</u> Thursday Evening Program: To Be Announced Location: Springdale AQ Chicken House Meeting Sponsor – Trane Company	<u>January 10, 2002</u> Thursday Evening Program: Critical Environment Control Location: Fort Smith Mtg. Sponsor – Powers of Arkansas	<u>February 7, 2002</u> Thursday Evening Program: Control System Design Using ASHRAE Standard 135 Speaker: Mr. Todd Cowles – Alerton Technologies, Inc. Location: Springdale AQ Chicken Mtg. Sponsor - Northwest Controls
<u>March 7, 2002</u> Thursday Evening Program: Sound Attenuation Location: Sparks Hospital Education Center	<u>April 4, 2002</u> Thursday Evening Program: Fort Smith Civic Center HVAC System Design Speaker: John Symonds Hathaway/Symonds & Associates Location: Fort Smith Civic Center	<u>May 9, 2002</u> Thursday Evening Program: Design Considerations for the Fayetteville City Admin. Building HVAC Retrofit – Mr. Greg Anderson Location: Arkansas Western Gas Company, Fayetteville