



THE RAZORBACK REPORT

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

www.arkansasashrae.org

Volume XIV, Issue VII, March 2003

The President's Message

By Randy Moore, P.E.

Our chapter leadership continues to prepare for the first electronic chapters regional conference – CRC. Recently, our webmaster, membership promotion, and reception committee members discussed issuing our next “E-Roster”. The 2002-2003 Arkansas ASHRAE Chapter Roster will be our first one presented in electronic format. Our Reception Committee Co-Chair, James Dayer will use the most current Society Roster to update the Chapter Roster. Membership Co-chair, Russell Black, and our Webmaster, Brett Bolan, will take this electronic file and issue our first “E-Roster”. The Membership Article inside the Newsletter has more details on the Roster Committee Activities.

Thanks again to our members/guests and the February Meeting Sponsor, the Trane Company, for a very informative technical session and program on the ASHRAE Standard 90.1. We also look forward to the upcoming TEGA committee seminar for additional educational opportunity for our membership. February was a busy month for our chapter which concluded with the Engineers Week Activities coordinated by our Student Activities Committee. Thanks to Chris Ahne and his committee for their efforts on behalf of the Arkansas Chapter Members.

I am pleased to report additional activity by our Ad Hoc Committee concerning the standard of care for indoor air quality in our public school buildings. We will have our first committee meeting in March to discuss the details for organizing a panel discussion on this very important issue facing our Consulting Engineer members. This committee will meet to determine the format, location(s), panel members, and timing for a panel discussion meeting. Please contact myself or Marshall Moody with any interest or ideas in the first organizing committee meeting.

The Arkansas Organizing Chapter of the US Green Building Council held another meeting recently. This group is moving towards establishing an official chapter of the USGBC and presents an additional opportunity for our chapter membership to be informed on issues relating to green buildings. Please contact Martha Jane Murray, AIA with The Wilcox Group for additional details on the local chapter activities.

The Arkansas Chapter continues to have a great year and benefit from the hard work of our Chapter Leadership and Committees as we prepare to close our year with the 2003 CRC in Fort Worth, Texas on April 24th thru 26th. Please register early and check out the details for CRC on line at the Fort Worth Chapter website www.ashrae-ftw.org.

March Meetings

Central Arkansas

Date: Wednesday, March 5th
Location: Little Rock Club
Regions Bank Building
Cost: \$18.00 / person
Schedule:
10:30 AM Board Meeting
11:15 AM Tech Session
11:45 AM Lunch Buffet
12:15 - Program - Barry College - ASHRAE
1:00 PM Project HI-02-2-1 “Hybrid Desiccant
Systems”
By Mr. Kirk Mescher P.E.

Meeting Sponsor: *Powers of Arkansas*

Northwest Arkansas

Date: Thursday, March 6th
Location: A Q Chicken
Springdale, AR
Schedule:
5:30 PM Social
6:00 PM ASHRAE Business / Dinner
6:30 PM Program - Barry College - ASHRAE
Project HI-02-2-1 “Hybrid Desiccant
Systems”
By Mr. Kirk Mescher P.E.

Meeting Sponsor: *Powers of Arkansas*

Northwest Corner

By Marshall Moody

Thank you, to all those who braved the snow to attend the February meeting. The comments on the program evaluations made it apparent that you were all glad that you came. Our next meeting will be held on Thursday, March 6, 2003 at AQ Chicken in Springdale. The presentation is on ASHRAE HI-02-2-1, “Hybrid Desiccant Systems.” Mr. Kirk Mescher with CM Engineering will be giving the presentation.

The meeting will begin at 5:30 PM. Hope you can make it for another evening of good food, fellowship, and important information.

Hope to see you on March 6th!

February Board of Governors, Officers & Committee Chairmen Meeting Minutes

By John Carter, Chapter Secretary

Call to Order: President Randy Moore called to board meeting to order at 10:43. Attendees included: Randy Moore, Rick Sellers, John Carter, Chance Hollingsworth, Eddie Finley, Mike McClellan, Russell Black, John Hodoway, Wade Wetzler.

Old Business: Secretary Carter presented the January meeting minutes and the board accepted the minutes as written. Secretary Carter then reviewed last month's action item list. Action Items 1, 2, and 5 were tabled.

New Business: President Moore will revise the changes made to the Bylaws for the Chapter meeting submitted by the revision committee. President Moore will ask the chapter members to review Bylaw amendments for an official vote in March meeting. Entire bylaws will be posted on website and available to download and only the amendments will be forwarded to Chapter for review. Brett Bolan modified the website to include information on upcoming TEGA events. Terry Granderson requested five minutes of the Chapter meeting to update Chapter on Senate Bill #54. President Moore then submitted excerpt requirements for the CRC report to applicable committee chairs. Vice President Rick Sellers requested time in the Chapter meeting to announce the upcoming lab design seminar that will immediately follow March Chapter Meeting. He announced that 25 people have all ready signed up. President Moore and Mr. Sellers announced they will attending the upcoming Chapter President-Elect training in two weeks. Treasurer Chance Hollingsworth presented the monthly treasurer's report. The board agreed to disseminate format of the Chapter Roster to only ASHRAE members.

Action Items:

- 1) Tracy Hayes and bylaw committee will revise format of amendments and forward to Wade Wetzler.
- 2) All Chapter committee chairs are to update request of CRC reporting by April 10, 2003.
- 3) Treasurer Hollingsworth will research tax-filing requirements of chapter.
- 4) Secretary John Carter will forward 1099-INT for Region VIII account to new treasurer.
- 5) Treasurer Hollingsworth will bill one more invoice to outstanding invoice for directory.
- 6) President Moore will organize and develop Roster development sub-committee under the membership committee to develop requirements and implement changes to 2002-2003 Arkansas ASHRAE Chapter Roster.
- 7) Secretary John Carter will email meeting notes to members as well submit them

for the newsletter prior to the next meeting.

Adjourned: The board meeting was adjourned at 11:16 AM.

February Arkansas ASHRAE Chapter Meeting Minutes

By John Carter, Chapter Secretary

Technical Session: The technical session was called to order at 11:17 with 31 members in attendance. Mick Swedler began the technical session by presenting the purpose of ASHRAE STD 90.1. Some of the requirements of ASHRAE STD 90.1 include: off hour controls, zone isolation, minimum lighting power densities for building types, individual and multiple component compliance with Standards in alterations/additions, limitations on how much hot gas bypass is allowed, limitation on simultaneous heating and cooling, air side energy recovery, hydronic energy recovery, fan recovery, fan pressure optimization based on air terminal unit damper position vs. duct static pressure, equipment efficiency levels at full and part load conditions, and various state adoptions. Mr. Schwedler also discussed Epact - 1992 requirements that all states must update energy codes to be at least as stringent as 90.1-1999 by 2005.

Call to Order: After a break for lunch, the chapter meeting was called to order at 12:06. There were 37 members and 19 guests in attendance. President Randy Moore introduced Terry Granderson who updated the chapter on Senate Bill 45. President Moore then introduced Vice President Rick Sellers who announced next month's TEGA Seminar on lab design that will immediately follow the March meeting. Contact Rick if planning to RSVP. Student Activities Chairman Chris Ahne then announced that ATU is an official Student Chapter and congratulated Wayne Helmer for his involvement in getting the chapter started well. He then announced that engineering week would include a facility tour of the Victory Building and various presentations to local schools. President Moore then requested a show of hands from the Chapter to accept the list of amendments to the Chapter bylaws. President Moore then introduced Mick Swedler who presented the program on ASHFRAE/IESNA 90.1-2001.

Program: Mick Swedler began by stating that the purpose of the Standard is to define the minimum requirements of building construction. The Standard does cover the entire building. The scope of the Standard includes envelope, HVAC, service water heating, power and lighting. This presentation focused on HVAC including the simplified approach, prescriptive, and mandatory requirements. There are mandatory requirements for each different type of equipment. Other mandatory requirements for the stan-

dard include thermostatic controls, load calculations, limitations on how much hot gas bypass is allowed, air side energy recovery, hydronic energy recovery, fan recovery, equipment efficiency levels at full and part load conditions. Prescriptive requirements include economizers, simultaneous heating and cooling, air system design and control, fan power, hydronic system design and control, heat rejection equipment. He then discussed the Energy Cost Budget method.

Adjournment: The meeting was adjourned at 12:58 PM.

February Northwest Arkansas Section ASHRAE Meeting Minutes

By John Symonds

The February 6, 2003 Northwest Arkansas Section of ASHRAE meeting was held at Goodson's Restaurant, Fort Smith, Arkansas. Mr. Marshall Moody called the meeting to order at 5:30 p.m. Despite the weather, approximately 16 members and guests were present.

Marshall made the following announcements:

- A) ASHRAE is holding a one-day training session on Standard 90.1 on April 17, 2003 at the Little Rock Holiday Inn Select.
- B) Next Northwest Section meeting will be March 6, 2003 at the Springdale A.Q. Chicken House Restaurant. The topic to be Hybrid Desiccant Systems.

Mr. Jim Bradford introduced the guest speaker, Mr. Mick Schwedler, principal applications engineer with Trane. Mr. Schwedler presented an inside look at the HVAC requirements of ASHRAE Standard 90.1 Energy Standard for Buildings Except Low-Rise Residential Buildings. He discussed the Federal 1992 Energy Policy Act, which covers all buildings and how Standard 90.1 may apply. The applications including the simplified approach for one to two-story buildings less than 25,000 square feet and single zone, the mandatory requirements, which include minimum equipment efficiencies, equipment size restrictions, leakage testing and building commissioning and finally the prescriptive requirements which addressed economizers, re-heat amount limits, air flow limits, cooling tower controls and hot gas bypass limits. Mr. Schwedler indicated that to be in compliance the HVAC systems must satisfy all Standard 90.1 requirements. Finally, Mr. Schwedler recommended the Standard 90.1 users manual as a helpful design guide.

With no further business, Marshall Moody adjourned the meeting at 7:45 p.m.

