



THE RAZORBACK REPORT

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

www.arkansasashrae.org

Volume XIV, Issue VIII, April 2003

The President's Message

By Randy Moore, P.E.

Our Region VIII CRC in Fort Worth is April 24th through the 26th and I hope everyone is making plans to attend. The Fort Worth Chapter CRC Committee has pulled together some great speakers for technical sessions and our chapter leadership will attend break out sessions with respective Regional Vice-Chairs to prepare for the coming year.

I attended the Northwest Section Meeting last month and enjoyed visiting with our members in Springdale. Marshall Moody is doing a fantastic job keeping our section active and serving our members well. Thanks to our members/guests and the Meeting Sponsor, Powers of Arkansas for supporting our March Program. Our TEGA Committee organized a Lab Design Seminar after our March meeting in Little Rock, and it was informative and well attended. We also have another opportunity for professional development by attending the TEGA committee Seminar on ASHRAE Standard 90.1. Contact your TEGA committee for additional details.

I want to thank the members and guests that attended our first Ad Hoc Committee meeting for planning a forum for discussion of the issues involved with applying ASHRAE Standard 62 in our public school buildings. Bill Goodman, Scott Archer, Rick Couvillion, Marshall Moody, Randy Ragsdale, Chris Call, Bill Sharp, Wade Wetzler, John Hodoway, Arkansas Tech Student Section Faculty Advisor Wayne Helmer; and Student Section members Noah Kinder, Eldon Pyburn, Lucas Howard, Joe Smith, and Brandon Keeton joined me for a Lasagna Buffet hosted by the Arkansas Tech University Chambers Cafeteria. We discussed the details for organizing a panel discussion/forum on this very important issue. We appointed a committee chair; co-chairs for meeting agenda; co-chairs for selecting panel members; and co-chairs for determining the meeting date, time, and place. This committee will meet again in May at the same location at Arkansas Tech. Our plans are to prepare for our first forum discussion at the September 2003 Chapter Meetings in Little Rock and Northwest Arkansas. Call me or any committee member for additional details.

Our Arkansas Chapter Leadership looks forward to hosting Region VIII Director and Regional Chair, Mr. Hugh McMillan for our past president night meeting in April. Please join us to hear news from the region and celebrate our Past Presidents. Also, register early and check out the details for CRC on line at the Fort Worth Chapter website www.ashrae-ftw.org.

April Meetings

Central Arkansas

Date: Tuesday, April 1st
Location: Little Rock Country Club
Cost: \$40.00 / person
Schedule:
4:30 PM Board Meeting
5:30 PM Social / History Display
6:00 PM ASHRAE Business
6:30 PM Dinner
7:00 PM Program - Making a Difference
By Mr. Hugh D. McMillan, III P.E.
DRC - Region VIII

Meeting Sponsors:
Airetech and Northwest Controls

Northwest Arkansas

Date: Thursday, April 3rd
Location: A Q Chicken
Springdale, AR
Schedule:
5:30 PM Social
6:00 PM ASHRAE Business / Dinner
6:30 PM Program - "Energy Procurement and Consumption"
By Mr. John Carter P.E.

2003 ASHRAE Research Spring Golf Tournament

FRIDAY – May 30th
1:00 P.M. - Shotgun Start
Cypress Creek Golf Course
Cabot, Arkansas



see insert for more details.

March 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 10:38am at The Little Rock Club. Attendees included: Rick Sellers, John Carter, Chance Hollingsworth, Eddie Finley, Tracy Hayes, Tom Hanlon, Russell Black, John Hodoway, James McKinnie, Wade Wetzler, and James Dayer.

Old Business: Secretary Carter presented the February meeting minutes and the board accepted the minutes as written. Secretary Carter then reviewed last month's action item list. Action Items 3, 4, and 5 were tabled. Randy Moore requested all Grass Root Committee be represented at CRC. Society is considering reorganization and a copy of the reorganization chart was distributed. Vice President Rick Sellers requested that existing committee chairs notify him if they are interested in reserving in some capacity or serving as co-hair. ADHOC Committee meeting for IAQ in schools will meet Thursday, March 13th at 6:30 PM at Arkansas Tech University. The public is welcome to attend. President Moore also announced that past Region VIII RVC, Bill Harrison, was nominated to receive a District Service Award. Treasurer Hollingsworth then presented the monthly treasurer's report.

New Business: President Moore announced that all members are responsible for reviewing and updating their own biographies on the Society website. Tom Hanlon another request for TEGA awards. Wade Wetzler announced that the deadline for submissions for the newsletter is March 17, 2003. John Hodoway announced that all potential ASHRAE research donors should expect to receive phone call within 2 weeks. Engineering Week was a success with approximately 45 students from Cathedral High School, ATU, and NLR High attending an educational trip to the Victory Building. Chris Call announced that the golf tournament is scheduled for May 30, 2003 at Cypress Creek. Eddie Finley then provided some positive words and commented that everyone looks sharp and getting better everyday.

Action Items:

- 1) Treasurer Hollingsworth will research tax-filing requirements of chapter.
- 2) Secretary Carter will forward 1099-INT statement for Region VIII account for new Region VIII account treasurer.
- 3) Treasurer Hollingsworth will re-invoice all outstanding invoices for the directory.
- 4) Student Activity chair Chris Ahne needs to report PAOE points on website prior to April 4, 2003.
- 5) President Moore requested a summary of all grass-root reporting information by April 4, 2003 so that he can complete the end of year chapter report for CRC.
- 6) Russell Black will publish electronic version of the chapter directory by March 31.
- 7) Secretary John Carter will include date

and location of monthly meeting in future meeting minutes.

- 8) Grass Root committee chairs to notify president Moore of CRC attendance by March 15, 2003.
- 9) Alan Hope to prepare 35 copies of the chapter's nominations for candidates of honors and awards and forward to Randy Moore.

Adjourned: The board meeting was adjourned at 11:13am.

March Arkansas ASHRAE Chapter Meeting Minutes

By John Carter, Chapter Secretary

Technical Session: The technical session was called to order at 11:25am with 27 members in attendance at the Little Rock Club. Kurt Mesher, PE, presented the technical session on heat transfer technology. Mr. Mesher first discussed the basics of heat transfer. He then discussed the physical performance and properties of heat wheel components. Total energy wheels transfer both latent and sensible heat. One of the benefits to a sensible-only device is for the purpose of reheat for humidity control. Energy recovery is much more cost effective today than even 5 years ago. Mr. Mesher then discussed desiccant dehumidification. A precooling coil is used to increase desiccant effectiveness. Desiccant Technology now allows for producing a variable sensible heat ratio.

Call to Order: Following a break for lunch, the chapter meeting was called to order at 12:19am. President Randy Moore started the meeting by introducing TEGA chair Tom Hanlon. Mr. Hanlon then introduced the guest speaker for the Continuing education seminar following the meeting. Randy Moore then announced the dates for CRC (April 24-27, 2003) and provided some additional information. Rick Sellers then invited people to participate as a grass roots committee chair this next year. Anyone interested in serving in ASHRAE on the grass roots level needs to contact Rick Sellers. President Moore also announced that past Region VIII RVC, Bill Harrison, was nominated to receive a District Service Award. Randy Moore then presented a summary of Engineers Week. Engineering Week was a success with approximately 45 students from Cathedral High School, ATU, and NLR High attending an educational trip to the Victory Building. Randy Moore then asked for any additional amendments to the Chapter By-laws and none were given. So, the Chapter then voted to approve the amendment as written. Randy Moore then introduced Chance Hollingsworth who introduced Kurt Mesher as today's speaker.

Program: Mr. Mesher began the presentation of "Barry College - ASHRAE Project HI-02-2-1 'Hybrid desiccant systems'" by discussing the Humidity Control Application of Berry College in Georgia. The goal was to eliminate the mold problem in the existing dorms. Some of the re-

sults of the project included: very stable temperatures, specific humidity control; an active desiccant system; the facility was able to reuse the existing chiller to serve district loads, and 53% energy consumption savings. One of the next steps and future of humidity control is conditioning temperature and humidity separately.

Adjournment: The meeting was adjourned at 1pm.

March Northwest Arkansas Section ASHRAE Meeting Minutes

By Marshall Moody

The March 3, 2002 Northwest Arkansas Section of ASHRAE was held at the AQ Chicken House in Springdale. Mr. Marshall Moody called the meeting to order at 5:35 p.m. There were 10 members and 13 guests in attendance.

Following dinner, Mr. Moody announced that the next Northwest Section meeting will be Thursday, April 3, 2003 at AQ Chicken House in Springdale. The presentation is on *Energy Procurement and Consumption*. Mr. Moody introduced Mr. Randy Moore, the Chapter President, and Mr. Chance Hollingsworth, the Chapter Treasurer. Mr. Moore stated that he appreciated the participation by the Northwest section and encouraged the Section members to attend the upcoming Chapter's Regional Conference (CRC) in Ft. Worth, Texas.

Mr. Moody made the following announcements: 1. Asked if anyone was interested in being the Northwest Section Coordinator for 2003/2004. 2. Informed the group that CRC in Ft. Worth, Texas is April 24 - 26. He read highlights of the Technical Sessions that will be offered (*The "Mold" Issue in Buildings, Green Buildings and the LEEDs Process, Temperature and Humidity Control in Hot and Humid Climates, and Low Temperature Air Distribution Design and IAQ Issues*). CEU's will be available. Mr. Tom Hanlon announced that there is an upcoming technical session on *ASHRAE 90.1* and asked those in attendance to go to the web site for further details.

Mr. Moody introduced the speaker, Mr. Chance Hollingsworth from Powers of Arkansas. Mr. Hollingsworth gave Mr. Kirk Mesher's (from CM Engineering) Powerpoint presentation on ASHRAE HI-02-2-1 (Hybrid Desiccant Systems). It focussed on a Department of Energy study that was performed at a Berry College dormitory in Atlanta, Georgia. The presentation detailed the latent control performance advantages that active desiccant dehumidification has over mechanical cooling and the importance of decoupling latent and sensible loads. Energy recovery wheels were also discussed as part of the "hybrid" system. Mr. Hollingsworth also mentioned how active desiccants improved air quality by acting as an air washer.

The meeting was adjourned at 7:55 p.m.

Student Activities

By Chris Ahne

Engineer's Week. We had great attendance, over forty students, for our facility tour that was conducted for Engineer's Week. The tour was of the mechanical system at the Victory Building, designed by Cromwell Architects and Engineers.

Our tour started with a Welcome to the students by President, Randy Moore followed by a description of the building and occupants by Marilyn Vandegriff of Flake and Kelley Management. We talked briefly about engineer's week and then turned things over to John Hodoway for a discussion of the design requirements that led to the final mechanical design. We then divided the students into equal groups and sent them out to each of 5 stations to view: 1.) The rooftop energy recovery units, demonstrated by Randy Moore; 2.) Operation of a VAV box, demonstrated by Tom Hanlon; 3.) Custom air handling units, demonstrated by myself; 4.) The central plant, demonstrated by John Hodoway; and 5.) The energy management system demonstrated by Eddie Finley. Coby Sutton had the glamorous job of escorting the students from the 4th floor equipment rooms to the central plant at ground level. I want to say thank you to our chapter president and all board members for taking time out your busy schedules to make this tour possible. From the comments that we received on our surveys, everyone enjoyed the tour and appreciated your effort.

We plan to have the University of Arkansas – Fayetteville, reinstated as a student chapter in the near future. Committee member, Sam Browning and I had a meeting with Darin Nutter, Rick Couvillion, and the new student chapter president, Brian Weir, last week in Fayetteville. At our meeting, we discussed activities and chapter support of the student chapter. We are planning a facility tour for all of the mechanical engineer students to happen within a week or so after the students return from spring break. There we plan to announce the re-instated student society to the students, talk about future chapter plans, remind the students about the ASHRAE design competition, and to encourage all students to join ASHRAE. I want to say thank you to Brian Weir for his interest in leading the charge for a new chapter. I also want to say thank you to Dr. Nutter and Dr. Couvillion for their commitment to the students to bring more activities and involvement to their students by way of ASHRAE!

This Month in Arkansas ASHRAE History

By James McKinnie

16 April 1968 - The board met at the Sam Peck hotel, where discussions focused on the upcoming CRC meeting in Little Rock. After the social hour and dinner, President Al Davis welcomed several guests from the Illuminating Engineering Society. Bill Woodsmall made a technical report on computer studies and systems available in the Little Rock area. Ted Mueller of Barber-Coleman in Rockford, Illinois made the primary presentation on heat-of-light systems, air diffusion and calorimetry calculations.

17 April 1973 - The board met at the Capitol Club during lunch, with discussions focused on the CRC report, a \$10,000 research fund goal, and delinquent dues. The general meeting began at 4pm, with members boarding a bus for a tour of the Remington manufacturing plant in Lonoke, organized by John Jaco. The party returned to the hotel for a social hour and dinner. No technical report or presentation was made.

17 April 1984 - The board met at the Capitol Square restaurant with Region VIII Director C.D. Callahan of Oklahoma City. It was announced that ASHRAE had provided a \$5,000 research grant to UA-Fayetteville. After the social hour and dinner, A technical report was made by a representative of the Chester Jensen Company on ice building systems as a means of energy savings. The primary speaker was Bill Fitzgerald of Carrier Corporation, who spoke on low temperature refrigeration with emphasis on compressor design and service problems with oil pumps and leak testing.

April Program Summary

by: Rick Sellers, 2002-2003 Vice President/Program Chairman

Making a Difference

Hugh D. McMillan, III P.E.
DRC - Region VIII

The Program will include a short presentation of highlights of the year in Region VIII, a look at some things most members don't know about ASHRAE, and some ideas on how each member can make a difference through their participation in ASHRAE.

Mr. McMillan graduated from Texas A&M with a BSME and Southern Methodist University with a MBA. His first job out of college was at EERB&C in Little Rock, working for Edgar Riddick II. He is a Professional Engineer registered in Texas and currently employed at R. H. George and Associates as a Project Manager. Mr. McMillan is a Past-President of the Houston Chapter, Past RVC – Chapter Programs, Region VIII, Past Chair of Society Chapter Programs Committee and currently the Director and Regional Chair of Region VIII.



ASHRAE Region VIII CRC

April 24-26, 2003

Ft. Worth, TX

for more info go to: www.ashrae-ftw.org

Main events at:

Renaissance Worthington Hotel

Golf activities at:

Water Chase Golf Club

Shooting activities at:

Alpine Shooting Range

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2002-2003 Chapter Officers

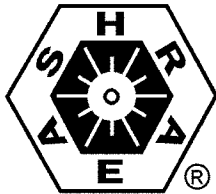
| | | | |
|-------------------|----------------------|--------------|---------------|
| <u>President</u> | Randy Moore | 501-280-0404 | fax: 280-9200 |
| <u>Vice-Pres.</u> | Rick Sellers | 501-374-3731 | fax: 374-1802 |
| <u>Secretary</u> | John Carter | 501-666-6776 | fax: 663-8888 |
| <u>Treasurer</u> | Chance Hollingsworth | 501-374-5420 | fax: 370-9298 |

Board of Governors

| | |
|---------------------------|--------------|
| Eddie Finley | 501-374-5420 |
| Doug Bown | 501-227-8181 |
| Steve Titus | 501-375-1181 |
| Mike McClellan (Delegate) | 501-661-0621 |
| Tracy Hayes (Alternate) | 501-280-0404 |

Committee Chairs

| | | |
|--------------------|----------------|--------------|
| Directory | Russell Black | 501-327-2409 |
| Membership | Chris Shaw | 501-280-0404 |
| Student Activities | Chris Ahne | 501-661-0621 |
| Programs | Rick Sellers | 501-374-3731 |
| Historian | James McKinnie | 501-987-7666 |
| 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 | 479-582-8239 |
| Social | Chris Call | 501-663-8886 |
| Reception | James Dayer | 501-663-8886 |
| Webmaster | Brett Bolan | 501-661-0621 |

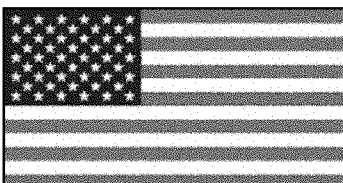


THE RAZORBACK REPORT

Arkansas Chapter of ASHRAE

P.O. Box 180

Little Rock, AR 72203





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

Arkansas Chapter Meeting RSVP Form

Company Name: _____

Phone #: _____ Fax #: _____

Signed: _____

| ROUTING |
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For reservations to the Central Arkansas Chapter meeting fax this form by **Friday, March 28th** to **501-374-1802 Attn: Rick Sellers**

For reservations to the Northwest Arkansas Chapter meeting fax this form by **Monday, March 31st** to **479-582-4747 Attn: Marshall Moody**

| MEMBER NAME (PLEASE PRINT) | CENTRAL April 1 st | NW ARK April 3 rd | EATING (Y or N) |
|-------------------------------|----------------------------------|---------------------------------|--------------------|
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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.



2003 ASHRAE Research Spring Golf Tournament

FRIDAY – May 30th - 1:00 P.M. - Shotgun Start
> Cypress Creek <
Cabot, Arkansas



Entry Fee: \$300.00 per team
Includes cart, refreshments,
and lunch. (served at 12:00)
Each player gets 2 mulligans.

Prizes Awarded for: 1st Place Team
2nd Place Team
3rd Place Team
Longest Drive
Closest to Pin

Lunch: Lunch Provided

Format: 4-Man Team Scramble
Each player must use tee shot on at least (2) holes
Limited to the first 22 teams (first 22 paid play)
Ties will be broken by using score & hole handicaps

Fill out this form and mail or fax to: Chris Call, (501) 663-8738, P.O. Box 3652, Little Rock, Arkansas 72203. All player names and money must be delivered to me by **May 9th**. Any teams received after this date may not get to play. Each team is responsible for replacement players due to cancellations.

Phone: 663-8886 Fax: 663-8738

Player 1: _____

Player 2: _____

Player 3: _____

Player 4: _____ Total enclosed: \$ _____

Checks should be made out to **Arkansas ASHRAE** and mailed with this form.

\$ PLEDGE CARD \$

___ I will sponsor a hole - \$100.00. (Hole sponsors will be recognized by a sign at a hole on the day of the tournament)

___ I will donate \$_____ for prizes & awards.

___ I will donate the following merchandise:
(We need vendors to donate logo golf balls, towels, etc...)

Workers, hole sponsors and prize contributors will be recognized in the ASHRAE newsletter. All proceeds go to Arkansas ASHRAE. Please return this form & checks for contribution to: Chris Call, P.O. Box 3652, Little Rock, Arkansas 72203.

Name: _____ Company: _____

Phone: _____ Fax: _____ Signed _____ Date _____

