



THE RAZORBACK REPORT

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

www.arkansasashrae.org

Volume XIV, Issue II, October 2002

The President's Message

By Randy Moore, P.E.

Thanks to the members, guests, and students of the Arkansas Chapter of ASHRAE for getting our new year for 2002-2003 off to such a great start. The Capitol Tour and the Northwest Section meeting were well attended. September activities also included a Research Promotion fund raiser golf tournament.

Society is considering revising the member benefit of the handbook from the current cycle of four years to update each printed handbook to an electronic four volume CD updated annually. Our Region VIII membership promotion RVC, Mr. Art Giesler, has requested membership feedback regarding this issue. Are the members ready for electronic handbooks in place of printed handbooks as the standard issue? Is annual update of all four handbooks electronically better than the current four year cycle for printed handbooks? Electronic handbooks will require access to computers for use from a screen or to print required data. Do all members have access to computers, and what effect might this have on new members or our long term members? Could we lose members after the first year since they receive all four handbooks in one electronic package? Will our members feel this change is an improvement to their benefits of ASHRAE membership? Please give this issue some thought and respond to Mr. Art Giesler at PALATUSA@aol.com or phone at 817-589-9372. Mr. Geisler will be gathering member feedback to forward to Society for discussion at the Winter Meeting in Chicago? ASHRAE is our society and feedback through our membership committee is one of our best methods of communicating membership needs to the Society Board.

Also, thanks to the Batson Firm and Mr. Jon Hilton for their efforts organizing and presenting the September meeting tour of our State Capitol. We look forward to our October meeting on ventilation solutions sponsored by Fluid Solutions, as well as, the joint meeting with NEBB for continuing education and re-certification of air balance technicians. ASHRAE and NEBB member, Mr. Tom Hanlon, has pulled together an excellent line up of speakers for a full day of professional development. I encourage all our ASHRAE members to attend this meeting.

October Meetings

Central Arkansas

Date: Wednesday, Oct 2nd
Location: Little Rock Club
Regions Building
Cost: \$16.00 / person
Schedule:
10:30 AM Board Meeting
11:15 AM Research Promotion
11:45 AM Lunch Buffet
12:15 - Program "Energy Efficient Ventilation
1:00 PM Solutions" by Keith Dunnivant, P.E
w/ Des Champs Technologies

Meeting Sponsor: *Fluid Solutions*

Northwest Arkansas

Date: Thursday, Oct 3rd
Location: Goodson's Restaurant, Ft. Smith, AR
Schedule:
5:30 PM Social
6:00 PM ASHRAE Business / Dinner
6:30 PM Program "Energy Efficient Ventilation
Solutions" by Keith Dunnivant, P.E
w/ Des Champs Technologies

Meeting Sponsor: *Fluid Solutions*

Northwest Corner

By Marshall Moody

Thanks goes out to all those who attended the September meeting. A very special thanks to Betty Couch and OG & E for making the first meeting of 02/03 a huge success. In the middle of August, the Northwest Section had not lined up a program and the phones were not ringing off the hooks with people who wanted to provide a program. That is when Betty stepped in and took care of everything! Richard Smith gave an outstanding presentation on "Power Quality." Numerous remarks were made about the quality of the program. Betty also made all the arrangements with Goodson's who provided a very tasty meal. Finally, Betty offered to treat everyone to the fine meal on behalf of OG & E. Betty was definitely the September MVP.

We hope to continue this fast start in October. We will again be at Goodson's and a representative from Des Champs Labs will speak on "Outside Air and ASHRAE 62." The social time will begin at 5:30. Hope to see you there for another evening of good food, fellowship, and important information.

May God continue to bless the USA!

September Board of Governors, Officers & Committee Chairmen Meeting Minutes

By John Carter, Chapter Secretary

Call to Order: (Roll Call – 10:34 AM)

Old Business – “Previous Action Items”:

- a. Chance Hollingsworth will include monies in 2002-2003 Budget for future chapter software upgrades by September meeting.
- b. The following committee chairs need to provide Randy Moore with MBO's prior to September Board Meeting: Student Activities, TEGA, Membership, Programs, Honors and Activities, Treasurer, History, Secretary, Newsletter, Research, and Webmaster.
- c. Chris Shaw will make arrangements to record, via video, the October chapter meeting to publish on the website. Randy Moore will bring tripod. Rick Sellers to discuss audio-visual with A/V Arkansas. Rick Sellers to obtain release from speakers.
- d. Randy Moore will provide new 2002-2003 insert updates for each of the chapter chair's chapter operations notebooks at September Board Meeting.
- e. John Carter will turn over chapter books to Chance Hollingsworth by August 8th.
- f. Board members to gather week of August 9th to take group picture of officers for website.
- g. Chris Call needs to forward golf tournament to Wade Wetzler within two weeks to publish in newsletter.
- h. Keith needs to forward CRC 2002 CD to Jon Rhodes.
- i. Social Chairman is responsible for arranging auctions at each monthly chapter meeting.
- j. Randy Moore to follow-up with James on upgrading name badges.
- k. Wade Wetzler to add electronic chapter meeting RSVP form to website.

Officer Board Report:

- a. President (Randy Moore): Chapter Survey has been updated on website and (RM) email to chapter. Randy Moore has Regional Chapter Officer List if anyone needs access.
- b. VP Programs (Rick Sellers): We still need program sponsors for April and May meetings. Anyone interested please contact Rick.
- c. Secretary (John Carter): The meeting minutes were accepted as written.
- d. Treasurer (Chance Hollingsworth): \$7,688.16 is the account treasury balance. A motion was made for the chapter to write an annual check to CRC savings account for actual quantity of chapter dues paying members the previous year at \$5 per member. Motion passed.

New Business – Subcommittee Highlights:

- a. TEGA (Tom Hanlon): Nebb / ASHRAE – NEBB seminar scheduled for October 11th. Topics for seminars are: Chilled Water Flows, Pumping Design, Vibration analy-

sis for Rotating Equipment, and Outside Air and Indoor Air Quality Verification.

Arkansas Energy Office has recommended American Society of Heating, Refrigerating, and Air-Conditioning Engineers, Inc. / Arkansas Energy Office co sponsors of the 90.1 seminar.

- e. Membership (Russell Black): Russell Black will announce mentorship program in October chapter meeting. See Russell for details.
- f. Newsletter (Wade Wetzler): September 16th is the deadline date for the September newsletter. Forward e-mail address to wade if you desire to receive newsletters electronically.
- g. Research (John Hodoway): John Hodoway will be recruiting sub-committee members.
- h. Honors / Awards (Alan Hope): No report.
- i. Student Activities (Chris Ahne): The week of August 26th of 2002, Chris Ahne presented ASHRAE seminar to students at Arkansas Tech University. Week of September 9th, Chris Ahne will present to University of Arkansas at Fayetteville students: ASHRAE Involvement. One student from Arkansas Tech University attended the chapter meeting.
- j. Webmaster (Bret Bolan): No report.
- k. History (Richard Palmer): No report.
- l. Social (Chris Call): Golf tournament scheduled for September 20, 2002.
- m. Reception (James Dayer): No report.
- n. Northwest Section (Marshall Moody): No report.

Action Items:

- o. Randy Moore, James Dayer, Tracy Hayes to order tractor feed badges.
- p. Wade Wetzler to email legal education survey to all members.
- q. Tom Hanlon will develop a seminar with AEO for ASHRAE 90.1 seminar.
- r. Committee chairs to turn in articles for newsletter by September 16th.
- s. John Carter finish treasurer reporting on end of year reporting by October meeting.
- t. John Hodoway to recruit sub-committee members by September meeting.

September Arkansas ASHRAE Chapter Meeting Minutes

By Rick Sellers, Vice-President/Program Chairman (for John Carter, Secretary)

Call to Order: At 11:30 a.m. the Chapter meeting was called to order with 49 members and 2 guests in attendance. The meeting was held at the cafeteria of the Arkansas State Capitol on September 4th, 2002. President Randy Moore called the meeting to order and welcomed the members and guests. President Moore explained the new grassroots committees reporting procedure. The committee Chairmen will be reporting to the membership during the regular meeting in lieu of only reporting to the Board at the Board meeting. President Moore explained

how this will help the membership to be more aware of the activities of the committees. The grassroots committee Chairmen then gave their respective reports. After the reports, President Moore thanked the Capitol for use of their facility and The Batson Firm for their sponsorship and help with the program. Program Chairman Rick Sellers gave a brief description of what today's meeting and tour will entail and also thanked The Batson Firm for their help. The meeting was then recessed for lunch.

Program: Following a short lunch break, the program began at 12:10 p.m. Program Chairman Rick Sellers introduced Mr. Jon Hilton of The Batson Firm. Mr. Hilton gave a brief history of the Capitol's HVAC system and also some insight as to the future of the system. Following Mr. Hilton's speech the membership was led on a tour of the Capitol. The tour included viewing the mechanical space and air handling units serving the south east portion of the building, the newly renovated Old Supreme Court Chambers, the newly renovated Senate Chambers, and the Rotunda. The tour was led by Mr. Hilton and a tour guide from the State Capitol who presented historical facts about the spaces and the building.

Adjournment: With no further business the meeting was adjourned at 1:10 p.m.

September Northwest Arkansas Section ASHRAE Meeting Minutes

By John E. Symonds, PE

The September 5, 2002 Northwest Arkansas Section of ASHRAE was held at Goodson's Restaurant, Fort Smith, Arkansas. Mr. Marshall Moody called the meeting to order at 6:10 p.m. Approximately 20 members and guests were in attendance. Mr. Marshall Moody made the following announcements:

- A. Thanked OG&E and Betty Couch for providing the meal and guest speaker.
- B. Reviewed the tentative Northwest Section meeting schedule for the year.
- C. Reminded everyone that the November meeting will be in Fort Smith at Goodson's Restaurant and the program will be Outside Air and ASHRAE 62 Standards.

Betty Couch introduced Mr. Richard Smith, PE, OG&E's power quality engineer. Mr. Smith's program on the Power Quality Perspective provided an insight on power reliability versus power quality. During his discussion, Mr. Smith defined the power quality factors, described what was considered power quality disturbances (i.e. power sags, swells and interruptions), discussed the symptoms of power surges and provided general guide lines for the customer to help him determine the type of power quality problem he maybe experiencing. The meeting was adjourned at 8:45 p.m.

Research Promotion

By John Hodoway

I attended the Research Promotion Chairman Planning Meeting on August 17 in Dallas. Our Research goal will be slightly less this year than last and without the expense of a CRC should be achievable. Our Chapter Research Promotion Committee includes Randy Moore as vice-chairman. Beginning next year, the immediate Past President will serve as Research Promotion chairman. Because of that, the current President will always serve as vice-chairman. Others who have agreed to serve on the committee are: John Barton, Charles Batson, Jim Bradford, Paul Briscoe, Don Huggins, Mike McClellan, John Oliver and Keith Wortsmith. Honor Roll contributors from the 2001-2002 year will be recognized at the October 2, 2002 meeting.

Student Activities

By Chris Ahne

Co-chairman, Coby Sutton and I visited Arkansas Tech University on Aug. 27th, delivering a presentation to a senior mechanical engineering class about ASHRAE. The class taught by Wayne Helmer, covers topics in energy management. Our presentation focused on ASHRAE history, current events, and benefits of student membership. There were approximately 15 students in attendance. We invited the students to attend our September chapter meeting at the Capitol Complex. We had one student that was able to attend the chapter meeting. Additionally, Coby Sutton is currently working with Wayne Helmer to start the process of forming a student chapter at ATU.

Sam Browning of the NWA section and I visited the University of Arkansas on Sept. 5th. We delivered a presentation to senior mechanical engineering students about HVAC systems. Our discussion included refrigeration components, types of HVAC systems, ASHRAE membership, and the ASHRAE Student Design Competition. There were approximately 20 students in attendance. We are hoping as a result of our presentation that a group of U of A students will participate in this year's ASHRAE student design competition. This year's competition will focus on an HVAC System Selection or HVAC Design for a multi-story building in Singapore. If anyone is interested in mentoring these students, please contact Dr. Rick Couvillion at the University of Arkansas or myself.

Membership Promotion

By Russell Black

The New Member Mentorship Program

The Membership Promotion Committee has created a New Member Orientation Subcommittee to enhance new members' initiation into ASHRAE. One of the responsibilities of the new subcommittee is the establishment of a mentorship program for new members, and we will need some of you to volunteer to be mentors. A mentor will help a new member's orientation into ASHRAE in several ways: by networking the new member to key ASHRAE contacts, i.e., officers, board members, long-standing members, etc., by explaining ASHRAE organizational interconnections at local, regional, and national levels, e.g., CRC, National Meetings, and by touching base with the new member on miscellaneous important details that integrate a new member into ASHRAE, e.g., meeting times and meeting agendas, Newsletter receipt, ASHRAE extended benefits, etc.

The qualifications for being a mentor are as follows: 5-year ASHRAE member and former or present board member. Mentorship will be for a six-month period.

As a mentor, you can help build Arkansas ASHRAE's future by having a positive and long-lasting impact on our new members, giving a new member the personal touch of guidance and friendliness needed to blend him or her into a new organization. Please speak with Chris Shaw, my Membership Promotion Committee Co-chair or me if you are interested in being a mentor.

Thank you.

October Program Summary

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

ENERGY EFFICIENT VENTILATION SOLUTIONS

Keith Dunnavant, P.E.

This presentation will focus on creative, energy efficient solutions to ventilating and conditioning commercial buildings in humid climates. When improperly handled, ventilation air can create new problems more severe than those associated with too little fresh air. By utilizing state-of-the-art energy recovery systems, ventilation and humidity control can be accomplished more efficiently and cost effective than conventional methods, while ensuring excellent IAQ for the occupants and taking care of and extending the useful life of the building structure. Sensible and total heat recovery systems, desiccant dehumidification systems, and various hybrid systems will all be evaluated. A new approach to ventilating and air conditioning classrooms will be presented that provides greater than recommended ventilation air, guaranteed relative humidity below 50% all year long, and zero recirculated air, while HVAC system first cost, operating costs, and maintenance costs are all reduced.

Keith Dunnavant is the National Sales Manager for Des Champs Laboratories Commercial Division. He has eighteen years of broad engineering experience, with expertise in the fields of air-to-air energy recovery, dehumidification, and evaporative cooling. Prior to joining Des Champs in 1993, Keith worked for a large HVAC controls contractor in North Carolina. Keith holds a BS degree in mechanical engineering from N.C. State University and is a registered professional engineer in North Carolina. He is a member of ASHRAE and has authored technical articles published in the ASHRAE Journal and Heating Piping Air Conditioning Magazine. He and his family live in historic Lexington, VA.

**2002 NEBB Recertification
&
ASHRAE Educational Seminar**

Friday - October 11, 2002
7:30 am - 4:30 pm
Hilton Inn Riverfront
North Little Rock, AR

Topics:

Variable Flow Primary Chilled Water Systems

Outside Air Measurement for IAQ

Vibration Measurement and Analysis

6 PDH Credits for Attendance

For Fees and Registration Form
Contact:

**Arkansas Environmental Balancing Bureau
501-753-2311**

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

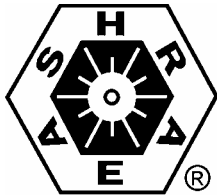
Board of Governors

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	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	479-582-8239
Social	Chris Call	501-663-8886
Reception	James Dayer	501-663-8886
Webmaster	Brett Bolan	501-661-0621

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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: _____

For reservations to the Central Arkansas Chapter meeting fax this form by **Friday, September 27th** to **501-374-1802 Attn: Rick Sellers**

For reservations to the Northwest Arkansas Chapter meeting fax this form by **Tuesday, October 1st** to **479-582-4747 Attn: Marshall Moody**

ROUTING

MEMBER NAME (PLEASE PRINT)	CENTRAL Oct 2 nd	NW ARK Oct 3 rd	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.

CENTRAL SECTION MEETING SCHEDULE 2002-2003

<p><u>September 4, 2002</u> Wednesday Lunch (11:30 am) <u>Program:</u> Tour of the Capitol <u>Speaker:</u> The Batson Firm & The Secretary of State's Office <u>Location:</u> State Capitol Cafeteria (located on the basement level)</p> <p style="text-align: center;">Mtg. Sponsor – The Batson Firm</p>	<p><u>October 2, 2002</u> Wednesday Lunch (11:15 am) <u>Tech Session:</u> Research Promotion <u>Program:</u> Energy Efficient Ventilation Solutions <u>Speaker:</u> Mr. Keith Dunnavant, P.E. (Des Champs Technologies) <u>Location:</u> Little Rock Club</p> <p style="text-align: center;">Mtg. Sponsor – Fluid Solutions</p>	<p><u>November 6, 2002</u> Wednesday Lunch (11:15 am) <u>Tech Session:</u> Psychometrics <u>Program:</u> How and Where to Apply Desiccant Dehumidification <u>Speaker:</u> Mr. Mark Nunnelly (Nunnelly and Associates) <u>Location:</u> Holiday Inn West</p> <p style="text-align: center;">Mtg. Sponsor – Concepts & Designs</p>
<p><u>December 4, 2002</u> Wednesday Lunch (11:15 am) <u>Tech Session:</u> Turbocore Compressor Technology <u>Program:</u> Chilled Water for the 21st Century <u>Speaker:</u> Mr. Ed. Tinsley, P.E. <u>Location:</u> Little Rock Club</p> <p style="text-align: center;">Mtg. Sponsor – Airetech</p>	<p><u>January 7, 2003</u> Tuesday Evening - Joint CSI meeting <u>Tech Session:</u> CSI (TBA) <u>Program:</u> CSI (TBA) <u>Speaker:</u> CSI (TBA) <u>Location:</u> CSI (TBA)</p> <p style="text-align: center;">Mtg. Sponsor – Pettit & Pettit</p>	<p><u>February 5, 2003</u> Wednesday Lunch (11:15 am) <u>Tech Session:</u> ASHRAE Std. 90.1 <u>Program:</u> ASHRAE Std. 90.1 <u>Speaker:</u> Trane <u>Location:</u> Little Rock Club</p> <p style="text-align: center;">Mtg. Sponsor – Trane Company</p>
<p><u>March 5, 2003</u> Wednesday Lunch (11:15 am) <u>Tech Session:</u> TBA <u>Program:</u> ASHRAE HI-02-2-1 (Hybrid Desiccant Systems) <u>Speaker:</u> Mr. Kirk Mescher, P.E. (CM Engineering) <u>Location:</u> Little Rock Club</p> <p style="text-align: center;">Mtg. Sponsor – Powers of Arkansas</p>	<p><u>April 1, 2003</u> Tuesday Evening (5:15 pm) Past President's Night <u>Program:</u> ASHRAE Region VIII Report <u>Speaker:</u> Mr. Hugh McMillan, Region VIII DRC <u>Location:</u> Little Rock Country Club</p> <p style="text-align: center;">Mtg. Sponsor –</p>	<p><u>May 6, 2003</u> Tuesday Evening (TBA) <u>Tech Session:</u> TBA <u>Program:</u> Facility Tour <u>Speaker:</u> TBA <u>Location:</u> To Be Announced</p> <p style="text-align: center;">Mtg. Sponsor –</p>

NORTHWEST SECTION MEETING SCHEDULE 2002-2003

<p><u>September 5, 2002</u> Thursday Evening <u>Program:</u> Power Quality <u>Speaker:</u> Mr. Richard Smith (O G & E) <u>Location:</u> Fort Smith</p> <p style="text-align: center;">Meeting Sponsor –</p>	<p><u>October 3, 2002</u> Thursday Evening <u>Tech Session:</u> TBA <u>Program:</u> Energy Efficient Ventilation Solutions <u>Speaker:</u> Mr. Keith Dunnavant, P.E. (Des Champs Technologies) <u>Location:</u> Ft. Smith</p> <p style="text-align: center;">Mtg. Sponsor – Fluid Solutions</p>	<p><u>November 7, 2002</u> Thursday Evening <u>Tech Session:</u> Psychometrics <u>Program:</u> How and Where to Apply Desiccant Dehumidification Technology <u>Speaker:</u> Mr. Mark Nunnelly (Nunnelly and Associates, Inc.) <u>Location:</u> Fayetteville</p> <p style="text-align: center;">Mtg. Sponsor – Concepts & Designs</p>
<p><u>December 5, 2002</u> Thursday Evening <u>Tech Session:</u> Turbocore Compressor Technology <u>Program:</u> Chilled Water for the 21st Century <u>Speaker:</u> Mr. Ed. Tinsley, P.E. <u>Location:</u> Ft. Smith</p> <p style="text-align: center;">Mtg. Sponsor – Airetech</p>	<p><u>January 9, 2003</u> Thursday Evening <u>Program:</u> LEEDS 101 "Leadership in Energy and Environmental Design" Building Rating System <u>Speaker:</u> Mr. Dennis Wells (Johnson Controls) <u>Location:</u> Fayetteville</p> <p style="text-align: center;">Mtg. Sponsor – Johnson Controls</p>	<p><u>February 6, 2003</u> Thursday Evening <u>Tech Session:</u> ASHRAE Std. 90.1 <u>Program:</u> ASHRAE Std. 90.1 <u>Speaker:</u> Trane <u>Location:</u> Ft. Smith</p> <p style="text-align: center;">Mtg. Sponsor – Trane Company</p>
<p><u>March 6, 2003</u> Thursday Evening <u>Program:</u> ASHRAE HI-02-2-1 (Hybrid Desiccant Systems) <u>Speaker:</u> Mr. Kirk Mescher, P.E. (CM Engineering) <u>Location:</u> Fayetteville</p> <p style="text-align: center;">Mtg. Sponsor – Powers of Arkansas</p>	<p><u>April 3, 2003</u> Thursday Evening <u>Program:</u> Energy Procurement and Consumption <u>Speaker:</u> Mr. John Carter, P.E. (TME Energy Services) <u>Location:</u> Fayetteville</p> <p style="text-align: center;">Meeting Sponsor –</p>	<p><u>May 1, 2003</u> Thursday Evening <u>Program:</u> Absorption Chillers and Chiller/Heaters <u>Speaker:</u> Mr. Ron Spencer (Airetech) <u>Location:</u> Fayetteville</p> <p style="text-align: center;">Meeting Sponsor –</p>