



# THE RAZORBACK REPORT

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

www.arkansasashrae.org

Volume XIV, Issue III, November 2002

## The President's Message

By Randy Moore, P.E.

Thanks to the members, guests, and students of the Arkansas Chapter of ASHRAE for investing time in our meetings and activities. ASHRAE is now undertaking a major effort to make the Handbooks more useful to practitioners in the HVAC&R community. Society needs chapter input for these revisions to make our handbooks better. The committees responsible for the content of the ASHRAE Handbooks are seeking help, particularly from people who use them frequently. Engineers and designers are asked to suggest changes that would make the Handbooks more useful and informative, and to volunteer to assist the Technical Committees (TC) in revising chapters.

The responsible TC is listed at the bottom of the first page of each chapter within the handbooks. Suggestions should be sent to Mike Vaughn, PE (mvaughn@ashrae.org) at ASHRAE Headquarters, who will forward them to the Handbook Subcommittee of the TC. Persons assisting the TC with revisions need not be members of the TC. They can participate either by attending TC meetings, or conference calls, or by Email or regular mail.

Many Handbook users have suggestions for changes, additions, or improvements. Contact Mark Owen, Handbook Editor, (mowen@ashrae.org) at ASHRAE Headquarters with your ideas, either directly or via the Handbook comment link on the ASHRAE Web site.

Our joint meeting with NEBB for the recertification seminar was well attended. Thanks again to Mr. Tom Hanlon, NEBB, and the presenters for their time and effort. Please join us in November at a new meeting location for our Chapter – the Holiday Inn West, for a technical session, lunch, and program. Look inside your newsletter for more details.



## November Meetings

### Central Arkansas

Date: Wednesday, Nov 6<sup>th</sup>  
Location: Holiday Inn West - The Blair Room  
Cost: \$18.00 / person  
Schedule:  
10:30 AM Board Meeting  
11:15 AM Tech Session - Psychometrics  
11:45 AM Lunch Buffet  
12:15 - Program "When and Where to  
1:00 PM Install Desiccants" by Mark Nunnally, P.E.

Meeting Sponsor: *Concepts & Designs*

### Northwest Arkansas

Date: Thursday, Nov 7<sup>th</sup>  
Location: A.Q. Chicken House  
Springdale, AR  
Schedule:  
5:30 PM Social  
6:00 PM ASHRAE Business / Dinner  
6:30 PM Program "When and Where to  
Install Desiccants" by Mark Nunnally, P.E.

Meeting Sponsor: *Concepts & Designs*

## Northwest Corner

By Marshall Moody

Thank you, to all those who attended the October meeting. A special thanks to Scott Archer for running the show in my absence.

Our next meeting will be held on November 7, 2002 at the AQ Chicken House in **SPRINGDALE** (Note: It is in **SPRINGDALE**, not Fayetteville as previously announced). Dr. Nutter is going to "invite" his students to attend so we are expecting a large turnout.

Mark Nunnally with Nunnally and Associates will give a technical session on psychrometrics and give a program entitled "When and Where to Install Desiccants." The meeting will begin at 5:30 PM. Hope to see you at AQ Chicken House in **SPRINGDALE** for another evening of good food, fellowship, and important information.

May God continue to bless the USA and those who protect our freedom!

## October 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 10:30 AM. Attendees included: Randy Moore, Rick Sellers, John Carter, Chance Hollingsworth, Eddie Finley, Mike McClellan, Tom Hanlon, Chris Shaw, Russell Black, Chris Ahne, John Hodoway, Wade Wetzler, B. Baugher, Chris Call, and James Dayer.

**Old Business:** Secretary John Carter reviewed last month's action items "Previous Action Items Review": Secretary Carter noted that all of the previous action items were completed prior to this board meeting.

**New Business - Officer Board Report:** President Moore stated that he will request members attending the chapter meeting to complete Legal Education Survey by end of meeting. President Moore forwarded a student activity to application to Student Activities Chair, Chris Ahne. President Moore also announced that History Chair Richard Palmer has tendered his letter or resignation effective immediately. President Moore has already begun the search of his replacement and will provide the board a recommendation for approval by next meeting. Vice President Rick Sellers (Programs) announced that the November meeting would be held at the Holiday Inn West on Wednesday, November 6<sup>th</sup>. Secretary Carter presented the previous month's meeting minutes and the board accepted the minutes as written. Treasurer Chance Hollingsworth presented the monthly treasurer report and the 02-03' budget. Approval of the budget was tabled until next meeting.

**New Business - Subcommittee Report:** Membership Chair Russell Black announced that the Arkansas chapter has seven 50-year life members.

### Action Items:

- 1) Treasurer Hollingsworth will discuss account status and fees with Regions Bank.
- 2) Treasurer Hollingsworth will confirm the payment status of the website account.
- 3) Newsletter Chair will confirm bulk mailing cost and provide to Treasurer Hollingsworth for 02-03" budget.
- 4) President Moore will research latest ASHRAE rules and recommendations concerning advertisement on website and in newsletter and will forward newsletter advertisement form to chapter members if applicable.
- 5) Board members are to review budget and send comments to Chance by November 1<sup>st</sup>.

6) Social chair Call will forward fundraising support survey to Chapter members.

7) President Moore will forward the invoice for the President's pin to Treasurer Hollingsworth.

8) President Moore will obtain budget for life member plaque and provide to Treasurer Hollingsworth for 02-03" budget.

9) Randy will provide recommendation for replacement History Chair and assist in locating co-chair.

## October Arkansas ASHRAE Chapter Meeting Minutes

By John Carter, Chapter Secretary

**Call to Order:** President Randy Moore called the chapter meeting to order at 11:35 AM. The meeting was held at The Little Rock Club on October 2, 2002 and there were 50 members and 1 guest attending the meeting. President Moore introduced Research Chair John Hodoway who presented recipients with an ASHRAE Research Award Medallion for their contribution to ASHRAE Research during 2001 - 2002:

Following the awards presentation and the lunch break, President Moore then announced that he has received one free pass to any first-time attendee to attend the winter meeting held in Chicago, IL on January 28-29, 2003). Contact President Moore if interested in this free pass. President Moore provided information on the upcoming CSI golf tournament information held on October 25<sup>th</sup> that will include various prizes awarded. President Moore also requested the chapter membership complete legal education survey forms that were located at each table and the chapter leadership would collect those forms by the end of the meeting. TEGA chair Tom Hanlon announced that the TAB re-certification seminar will be held Friday October 13<sup>th</sup> and requested members contact him for more information on attending the seminar. Social Chair Chris Call reported the results of the golf tournament held on Friday, September 20<sup>th</sup> at Stone Links Golf Club. There were 14 teams that participated with \$3,861 in profit raised for ASHRAE Research. Refer to the summary of the golf tournament in this newsletter for more information. Webmaster Brett Bolan stated that the website will be updated twice/month. Vice President Rick Sellers introduced Chris Call of Fluid Solutions and thanked Mr. Call for sponsoring today's meeting.

**Program:** Chris Call introduced today's speaker, Keith Dunnivant of Des Champs Technologies. Mr. Dunnivant presented a program titled "Energy Efficient Ventilation Solutions". Mr. Dunnivant contrasted two separate methods of providing ventila-

tion to buildings - conventional and dedicated systems. A conventional system includes ventilation air delivered using the same central equipment that conditions all of the air (including return air). A dedicated system includes separate equipment to precondition the ventilation air only. Mr. Dunnivant presented several options of a dedicated system to precondition the ventilation air. These options included energy recovery technology and alternative ways to mix return and ventilation airstreams.

**Adjournment:** With no further business, the meeting was adjourned at 1:00 PM.

## October Northwest Arkansas Section ASHRAE Meeting Minutes

By John E. Symonds, PE

The October 3, 2002 Northwest Arkansas Section of ASHRAE was held at Goodson's Restaurant, Fort Smith, Arkansas. Approximately nineteen members and guests were in attendance.

Mr. Scott Archer called the meeting to order at 6:00 p.m. and made the following announcement:

A. The November 7th meeting will be at the Fayetteville A Q Chicken House Restaurant with the program on desiccant and humidity control systems presented by Mark Nunnally.

Mr. Chris Call introduced Mr. Keith Dunnivant, PE who presented both the technical and main program sessions on Variable Outdoor Air Volume. Mr. Dunnivant's technical session provided information on displacement versus mixing ventilation and the benefits of displacement ventilation such as higher energy efficiency, better ventilation effectiveness, lower duct relative humidity, quieter system design, keeps the building pressurized, and reduces drafts.

The program consisted of some typical HVAC design systems and building source problems. Because of the building envelope problems, HVAC design considerations should be 1) the desired space wet bulb conditions and 2) control of the summer, winter and humid area space pressure relationships. Mr. Dunnivant presented various system design options such as air-to-air heat exchangers, sensible heat recovery devices with dehumidification, rotary heat exchangers, enthalpy and heat pipe combination systems and finally VAV systems and discussed their advantages and disadvantages.

Scott Archer adjourned the meeting at 8:00 p.m.

**TEGA News**

By Tom Hanlon

Lot's happening on our front.

We had our annual ASHRAE-NEBB Educational Seminar on Friday October 11<sup>th</sup>. We had forty-five attend the all day session at the North Little Rock Hilton. The programs were provided by Bell & Gossett's Little Red School House on Hydronic Systems design and operation. It was really an outstanding presentation. We had a very interesting demonstration on vibration testing and analysis presented by Arkansas Mechanical Services. Well done. And a timely program on outside air measurement presented by Ebtron and their local rep Airetech. Thanks to all that participated. We had attendees from as far away as Kansas City and Dallas. How about that!

Currently working on a seminar with some folks from The Center for Disease Control (CDC). Topic would be design and operation of Biological Safety Labs Level 2 (BSL2) and Level 3 (BLS3). Items covered in the seminar would be designing for primary and secondary containment, commissioning the facility, proper operation and security concerns. Seem that this would be a very timely topic. We are very fortunate to have Dr Stan Falk (Lab Director@ Ark Dept Health) helping us put this together and are hoping to attract several of the local lab facilities to the session as well. Could be a great opportunity for some networking. More as it develops.

Finally, it's time to start thinking about our Technology Awards for this year. Know that there are lot's of projects out there that are very worthy so let's hear about them. We had great representation last year with two regional award winners so let's try to top it. Contact us for information and assistance with application prep.

**Membership Promotion**

By Russell Black

The upcoming November meeting will be our Membership Day. If you have colleagues, friends, or contacts who you think may be interested in being a member of ASHRAE, please bring them to the meeting. We will have the Membership booth set up displaying ASHRAE pamphlets, ASHRAE publications, and other ASHRAE materials of interest. Membership Applications will be available.

Please join me in extending congratulations to the following members in achieving their new membership status: Emanuel Bates, Life Associate Member; Paul Briscoe, Life Member; Huey Gibbs, Life Associate Member; Billy Lowrey, Life Member; Ovenueal Page, Life Associate Member; Kenneth Sudduth, Life Member; and Jake Voegele, Life Member.

**November Program Summary**

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

**When and Where to Install Desiccants**

R. Mark Nunnally, P.E.

This presentation seeks to give a basic understanding of the desiccant dehumidification technology, and then should help with the understanding of the types of projects in which to apply desiccant-based dehumidification systems ... commercial and industrial applications.

**Mark Nunnally** is a mechanical engineering graduate of Auburn University, is a registered professional engineer and has been involved in the construction, engineering and HVAC industry for over 20 years. Over the last several years, his involvement with projects has primarily pertained to the humidity control, ventilation air treatment and energy savings aspects of his clients' buildings. Currently, Mark is the owner and president of Nunnally & Associates, Inc., an engineering firm primarily engaged in humidity control consulting. He has presented training seminars on dehumidification technologies (desiccant and mechanical-based) and their applications, as well as psychrometrics and designing for proper humidity control. He has been a member of ASHRAE for over 17 years and currently serves as a Regional Vice Chairman for the Society.

## Research Promotion

By John Hodoway

Many thanks to everyone for making the 2001-2002 campaign so successful. We financed the CRC and also raised a substantial amount for ASHRAE Research.

Elsewhere in the newsletter is the Honor Roll of 2001-2002 Contributors. Collectively, these individuals and companies contributed \$19,548.00. Together with the Chapter contribution of \$10,000.00 this accounted for almost all of the \$30,161 that Arkansas contributed to ASHRAE Research. Every contribution is deeply appreciated and used for research projects.

Our goal for 2002-2003 is \$31,422.00. With the kind of support that you give to ASHRAE Research, the chapter should be able to attain the goal. Thanks again for the tremendous support in 2001-2002.



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## 2002-2003 Chapter Officers

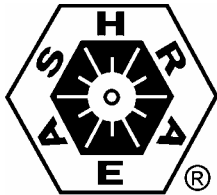
<u>President</u>	Randy Moore	501-280-0404	fax: 280-9200
<u>Vice-Pres.</u>	Rick Sellers	501-374-3731	fax: 374-1802
<u>Secretary</u>	John Carter	501-666-6776	fax: 663-8888
<u>Treasurer</u>	Chance Hollingsworth	501-374-5420	fax: 370-9298

## 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	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



## 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: \_\_\_\_\_

For reservations to the Central Arkansas Chapter meeting fax this form by **Friday, November 1<sup>st</sup>** to **501-374-1802 Attn: Rick Sellers**

For reservations to the Northwest Arkansas Chapter meeting fax this form by **Monday, November 4<sup>th</sup>** to **479-582-4747 Attn: Marshall Moody**

ROUTING

MEMBER NAME (PLEASE PRINT)	CENTRAL Nov 6 <sup>th</sup>	NW ARK Nov 7 <sup>th</sup>	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.**

## 2001-2002 ASHRAE Research Honored Contributors

By John Hodoway, Research Promotion

### Silver Level \$1,000 to \$2,499

Comfort Systems USA	Airetech Corporation	Wade Company	Fluid Solutions
Pettit & Pettit Consulting Engineers	H W Goodman Jr Engineers	Cromwell Architects Engineers	
Tinsley-Mullen Engineers	Samuel D Cummings, Jr	Trane Little Rock Sales	

### Honor Level \$500 to \$999

Batson Firm	Jack T Carter Company
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### Honor Level Honor Roll to \$499

Environmental Enterprises	Clyde A Jester	Michael J McClellan	Hamid Habibi
Gary L Hildebrand	Harley W Goodman Jr	William A Harrison	Hugh A Pack
Allen Bullard Company	Anthony D Lyons	Ed'S Supply Company - Little Rock	Gerald S Oliver
John Prince Company	Robert Dale Boatright	Johnson & Scott - Little Rock	John R Oliver
Nicholas R Moore, III	Charles A Brunner	Northwest Arkansas Sheet Metal	Charlotte A Brunner

### Honor Roll Level \$100 Individual; \$150 Company

Action Inc	Tad E Hankins	Alltel Corp	Thomas J Hanlon
Fitton Systems	Phillip Pate	MPE Consulting Engineers	Tracy E Hayes
N W Control Systems	Charles D Batson	The Sudduth Firm	Charles G Wetzler
Voegele Mech Contractors	Edgar K Riddick III	Wintemp Supply	Jay C Hollingsworth
Christopher A Shaw	Keith E Wortsmith	James R Cannon	Paul E Briscoe
James R Johnson	Randall M Ragsdale	John S Carter	Rick L Sellers
John T Fitzpatrick	Sam E Weatherford	John W Hodoway III	William A Harrison Jr
Robert R Harden			

## 2002 ASHRAE FALL GOLF OUTING

By Chris Call, Social Chairman

The ASHRAE fall golf outing was held at Stone Links Golf Club on September 20, 2002. 14 four-man teams participated in the scramble event. The weather looked ominous on the morning of the event, but the clouds broke and the shotgun signaled the start of the tournament.

There were 3 par three-contest holes sponsored by Airetech and York. No golfers achieved the hole-in-one required to receive a prize, however all had fun with the Mexican flavored refreshments present at the tee box of the \$10,000.00 hole. I am sure this was to help insure that no one was awarded the cash! \$3800.00 was raised to support ASHRAE research. A lot of the profit is due to the following sponsors.

N.W. Controls - Cromwell Architects & Engineers - Airetech Corporation - Arkansas Mechanical Contractors - Fluid Solutions, Inc. - Comfort Systems, USA - Harrison Trane - Big Star Controls - Pettit & Pettit Engineers - Carter Company - Independent Air Conditioning - Tinsley-Mullen Engineers - Wade Company - Jaco Sales - Innovative Solutions Group

The winning teams were

<b><u>1<sup>st</sup> Place</u></b>	<b><u>2<sup>nd</sup> Place</u></b>	<b><u>3<sup>rd</sup> Place</u></b>
Dave Gross	James Dayer	Chance Hollingsworth
Greg Harvey	Tad Hankins	Eddie Finley
Clint McGue	James Panaciuk	Dustin Noland
Tony Price	Bill England	Dickey Rowland



Thanks to James Dayer, Wade Wetzler, Rick Sellers and Tracy Hayes for assisting.