



THE RAZORBACK REPORT

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

www.arkansasashrae.org

Volume XIII, Issue II, October 2001

The President's Message

by Tracy E. Hayes

The first Central Section Meeting of the year was a great success, with over 50 members and guests in attendance. The technical session by webmaster, Brett Bolan, was very informative regarding our Chapter's website and the program on Cooling Tower Systems was exceptionally presented as well. I would like to thank our meeting sponsor, Jack T. Carter Company. This month's Central Section meeting will be the first Tuesday evening in October with a program being presented on, "Demand Control Ventilation". The same program will be presented at the NW Section meeting the following Thursday. See Programs for more information.

The Arkansas Chapter committee chairs have gotten off to a great start. Research Promotion Chair, John Hodoway, has implemented the "Honor Roll Research Contributor Plan". The Arkansas Chapter is jointly sponsoring an education seminar with NEBB re-certification opportunities in early October – this venture is being lead by TEGA Chair, Tom Hanlon. And, as demonstrated by the Membership display at the September meeting, Membership Promotion is headed in the right direction as well. Fund raising for the \$10,000.00 Arkansas ASHRAE Research contribution began this past Friday, with the fall golf tournament being held at Rebsamen. We had 13 teams, that was not as high as we would have liked but, Social Chair, Chance Hollingsworth, is confident of increasing that number at the spring tournament. The weather was beautiful and the course was in great shape. A special thanks goes out to Powers of Arkansas for serving lunch afterwards at Murray Park. As stated before, the Chapter committee's have started the 2001-2002 year remarkably. However, some committees are still in need of volunteers from the membership to serve as committee members. I continue to urge each of you to step forward and serve on those committee's by *Accepting the Challenge* to do more. We are all looking forward to an exceptional year for the Arkansas Chapter and I believe we are off to a great start. Thanks to all who support the Arkansas Chapter and I encourage you to keep up the good work.

Some Personal Notes & Special Prayer Requests by Chapter Members

While trying to sort out my own feelings regarding the terrorist attack on our country last week and the events that continue to unfold, President Coad's theme for the 2001-2002 Society year continues to come to mind - *Accepting the Challenge*. I feel based on the media reports and just throughout my everyday conversations, not only are people of American decent, but people around the world are ready and willing to do whatever it takes in *Accepting the Challenges* that these evil terrorist have placed before us. One challenge is for our government (with the support of the American people) to make sure those responsible are punished, continue to have hope in the rescue and recovery efforts, while keeping faith that "Love" and "Good" will prevail. Another challenge that has been given to the American people by President George W. Bush is to continue with our everyday

October Meetings

CENTRAL ARKANSAS

<u>Date:</u>	Tuesday, October 2 nd
<u>Location:</u>	Little Rock Club, Regions Building
<u>Cost:</u>	\$18.00 / person
<u>Schedule:</u>	
4:30 PM	Board Meeting
5:00 PM	Social
5:15 PM	Technical Session - "VAV Box Product Selection"
6:00 PM	Dinner
6:30 PM	Program - "Designing for Occupant Acceptance" by: Dan Int-hout

Meeting Sponsor: **Carrier/Bryant of Arkansas**

NORTHWEST ARKANSAS

<u>Date:</u>	Thursday, October 4 th
<u>Location:</u>	A.Q. Chicken, Springdale
<u>Schedule:</u>	
5:30 pm	Social
6:00 pm	ASHRAE Business / Dinner
6:40 pm	Program "Designing for Occupant Acceptance" by: Dan Int-hout

lives and not give in to the intentions of the terrorist - which is to weaken the economy and the people of America. Meeting this challenge is going to be difficult for all of us, especially since I believe all of our lives are about to change forever. However, it is fairly obvious the President's challenge is obtainable by the "Love, Compassion and Determination" demonstrated throughout America and beyond. Let's keep the faith.

To show our Chapter's support, I asked for special prayer requests from Chapter members during this time of tragedy. John Carter, Chapter Treasurer, requests a special prayer be made for two (2) friends serving as missionaries in Kabul, Afghanistan and several weeks ago were imprisoned by the Taliban for teaching Christianity. He also would like to request a prayer for the family of his wife's high school friend, who lost her aunt in the Pennsylvania plane crash. I ask that you include them in your prayers. If any other member has a prayer request and would like it distributed among the membership, please call me or send me an e-mail that I can forward to fellow chapter members, tehayes@airetechcorp.com. Feel free to contact me with any concerns or information you would like presented to the Chapter membership. My prayers are with you all. Stay positive, stay safe and may God Bless America, especially now!

September 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 10:25am. The meeting was held on September 5, 2001 at The Little Rock Club. Those present were: Tracy Hayes, Randy Moore, Rick Sellers, John Carter, Mike McClellan, Keith Wortsmith, Eddie Finley, Richard Palmer, John Hodoway, Chris Ahne, Chris Shaw, Russell Black, Wade Wetzler, Brett Bolan, Tom Hanlon, Jim Monk, Chris Call. **President:** President Tracy Hayes opened the meeting and reminded those present MBOs are due. Committee reports were then presented as follows:

Vice President/Programs: Vice President/Program Chairman Moore highlighted that the NW Section meeting has been moved to September 11, 2001. He announced that September's meeting will be a Membership Promotion meeting, December will be a Research Promotion meeting and January will be a TEGA meeting. He also announced that the May 2002 meeting will be a regular meeting with NEBB presenting on Sound and Vibration. He solicited help to fulfill Tech Sessions.

Secretary: Secretary Rick Sellers asked for a motion to approve the Officer and Committee Chair meeting minutes as published in the September Newsletter. The motion was made, seconded and passed. Secretary Sellers distributed his final monthly chapter Treasurer's report for July and his year-end (2000-2001) Treasurer's report.

Treasurer: Treasurer John Carter presented the budget for 2001-2002. After minor discussion Treasurer Carter will make corrections and present the revised budget at the next meeting. Treasurer Carter also presented the monthly Treasurer's report.

Membership: Co-Chairmen Chris Shaw and Russell Black announced the table top display was set up for this meeting and the intent was to have it at each meeting. Two areas of focus for the year are membership upgrades and the creation of a complete Chapter database that includes e-mail addresses.

Research Promotion: Chairman John Hodoway announced he had attended the regional society Research Promotion meeting on August 25, 2001. The Arkansas Chapter's goal for the year is \$33,346.00. He reminded the officers of the Full Circle contribution. Chairman Hodoway unveiled his Honor Roll Pledge Plan which would allow members to make installments ending with a total of \$100.00

in April.

Historian: Historian Richard Palmer announced that the PAOE had changed and he is waiting for the RVC to forward him the current requirements. Mr. Palmer presented proposals from three (3) banner manufacturers and requested a motion to purchase a new awards banner. After lengthy discussion a motion was made by Wade Wetzler and seconded by John Hodoway to purchase the banner. The motion was voted on and passed.

Student Activities: Chairman Chris Ahne announced he had a meeting scheduled with the University of Arkansas to promote allowing students to do ASHRAE student design projects for UA credit. Chairman Ahne solicited help for Student Nights and facility tours. After brief discussion the October and March meetings were selected as Student Nights.

TEGA: Chairman Tom Hanlon reminded those present about the NEBB Recertification & ASHRAE Educational Seminar on October 5th. The Seminar includes great programs and those attending will receive (6) PDHs. The January meeting is to be TEGA night.

Newsletter: Chairman Wade Wetzler announced that September 16th 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 will be held at Rebsamen on September 14th. He is working to get more prizes donated to maximize the amount raised.

Reception: No report.

Webmaster: Chairman Brett Bolan announced the web site was complete with a new design. The homepage, newsletter and schedule continue to receive the most hits. There is now a feedback form available. A FAQ section and a search function are still to be added. He advised that Chapter programs could be digitized and made available for download. After a brief discussion it was decided to try some programs and see how much response was received.

Old Business: No old business.

New Business: No new business.

Adjournment: President Hayes adjourned the meeting at 11:16 am.

September Arkansas ASHRAE Chapter Meeting Minutes

By Rick Sellers, Chapter Secretary

Call to Order: At 11:30 am the Chapter meeting was called to order with 50 members & guests and 4 students in at-

tendance. The meeting was held at The Little Rock Club on September 5, 2001. The program began with the Tech Session.

Tech Session: Webmaster Brett Bolan presented an in-depth demonstration of the Chapter web site and its advantages for the membership.

Program: Vice President Moore opened the general meeting at 12:00 by introducing President Hayes. President Hayes asked for brief presentations by Tom Hanlon on the NEBB/ASHRAE Seminar, John Hodoway on the Honor Roll Pledge Plan, Chris Shaw on Membership upgrades and Chance Hollingsworth on the golf tournament. President Hayes then presented Past President Mike McClellan with a certificate of appreciation and a President's pin. Mark Carter then introduced the speaker Mr. Bill Leizear. Mr. Leizear presented a program entitled "Rx for Water Cooled/Cooling Tower Systems". The program was an in-depth look at the effects of solids contamination of cooling tower systems. The program explained how equipment life is much shorter than projected due to these problems and how a typical plate and frame heat exchanger capacity is reduced by 17% with only 3% blockage. He then presented five (5) filtration solutions for the problems and discussed the advantages and disadvantages of each. Mr. Leizear concluded with an example of the payback by utilizing these solutions which included energy, maintenance, water and chemical savings as well as increased productivity. A question and answer session followed.

Adjournment: With no further business the meeting was adjourned at 12:57 pm.

Program Summary

By Randy Moore, Vice President – Program Chairman

On behalf of the Arkansas Chapter of ASHRAE, thank you to Carrier-Bryant of Arkansas for sponsoring our October Meeting. We still have openings for several tech sessions which are excellent opportunities for the Chapter Membership to share knowledge and experience with fellow ASHRAE members. Also, we are pleased to announce the May meeting will be co-sponsored by NEBB and Fluid Solutions with program and technical sessions on vibration analysis and control. Watch the RAZORBACK REPORT for more announcements on technical sessions and programs for the new year.

ASHRAE Fall Golf Tournament

Arkansas Chapter of ASHRAE would like to acknowledge & pay special thanks to the following sponsors that helped to make this fall's tournament a great success:

Corporate Sponsors:	SEMCO Inc. Siemens Building Technologies		
Beverage Sponsor:	The Trane Company & Airetech Corporation		
Lunch Sponsor:	Powers of Arkansas		
Prize Sponsors:	Airetech Corporation, Jack T. Carter Co., & Innovative Solutions Group		
Hole Sponsors:	Cromwell A/E Carter Company Arkansas Filter Co. Action Inc. Independent Air Carrier / Bryant of Arkansas T.L. Services	Pettit & Pettit Fluid Solutions Johnson Controls Pillar Technical Service Wade Co. Trane Co. Comfort Systems USA	Tinsley-Mullen Engr. B & W Mechanical Nabco Mechanical Air Flow Inc. ACE Technologies Bill Goodman Arkansas Mechanical

Winners List:

1st Place Team	Fluid Solutions:	George Rozzell, Mark White, Steve Watts, James Dayer
2nd Place Team	Fluid Solutions:	Greg Harvey, Chris Call, Jeff Voegele, Pat Longinotti
3rd Place Team	Harrell Mechanical:	Phil Filiatreau, Mike Harrell, Mark Boyette, Mike Fair
Longest Drive:	Eddie Finley	
Closest to Pin:	Wayne McGinty	

Thanks to all those who participated in this year's golf tournament, we hope you enjoyed yourselves and will join us for the spring tournament.

If you have any suggestions or comments on how we can improve this spring's tournament please E-mail me at chanceh@worldnet.att.net

Student Activities

By: Chris Ahne

Last month's meeting at the Little Rock Club saw four students from Arkansas Tech University in attendance. I would like to say thank you to Doyle, Derek, Nick, and Lucas for attending. We welcome you to all of our meetings and look forward to seeing you again.

James McManners, an alumnus of ASU and a Student Activities committee member, has arranged a department visit with the ASU engineering students on October 18th. We will be presenting on ASHRAE and careers in the HVAC&R industry. Any chapter members and/or alumni are encouraged to join us in Jonesboro on the 18th.

October's meeting has been named student night. We would like to invite all students from high school, technical schools, colleges, and universities to attend our meeting next month. We would like to ask the faculty advisors to encourage all of their students to attend this meeting. This is would be a great opportunity for folks in the industry to meet potential interns and employees. Hope to see you in October! If you are interested in any of the above events, please contact me via email: cahne@mail.ashrae.org.

Membership

By: Russell Black

Thank you, fellow ASHRAE members - Chris Shaw and I appreciated all the nice comments regarding our new membership booth at the kickoff September meeting. We plan to have the booth at every meeting, so let's all use the booth as a tool for making Arkansas ASHRAE evenstronger. If you have colleagues, friends, or contacts who you think may be interested in ASHRAE, please bring them to a meeting and stop by to see either Chris or me at the booth. Chris or I (along with you, of course) can explain all the benefits of ASHRAE membership, and naturally, we will handily have new member applications available. (We will soon be rolling out a new incentive program for "Members bringing in new Members," so that you will not only have the psychological satisfactions of making Arkansas ASHRAE stronger and bringing a friend or colleague into a great organization, you will also receive an added satisfaction of a more, let's say, material nature.)

For current members, please stop by the booth to check with Chris or me regarding your current status in ASHRAE. You may be eligible for advancement. (We had several members who talked to us about their advancement potential and are going to apply for an upgrade.) We will also have the forms for membership advancement at the booth (we try to make it easy for you!). Thanks again to all the folks who stopped by the booth in September. Chris and I appreciated your interest.

TEGA

By: Tom Hanlon

Our annual ASHRAE / NEBB education seminar is coming up the 5th of October. Location is the Best Western Intowne on I-30. This is an annual event for us and offers continuing education credits for PEs and is a recertification opportunity for NEBB supervisors. We normally have attendees from all the surrounding states, which gives us a great chance for networking. Hope many will attend. A complete information sheet is on the web page.

Time to get started with our Chapter Technology Award competition. We had good participation last year with the Batson Firm winning the Institutional award for a project at NCTR and the Cromwell Firm winning the commercial award for the Beverly Building in Fort Smith. Cromwell also won with this entry at Region. Congratulations.

We'll have a brief pitch for the contest at the October meeting. Also when any member 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.

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

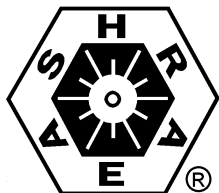
Board of Governors

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

The Razorback Report is published monthly by the Arkansas Chapter of ASHRAE. Statements made in this publication are not expressions of the Society or of the chapter and may not be reproduced without special permission from the chapter.

**THE RAZORBACK REPORT**

Arkansas Chapter of ASHRAE

P.O. Box 180

Little Rock, AR 72203

Non-Profit Organization
U.S. Postage

PAID

Little Rock, AR
Permit No. 3043

In This Issue...

October Meeting Information
Fall Golf Tournament Results

*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, Sept 28st** to 501-280-9200 **Attn: Randy Moore**

For reservations to the Northwest Arkansas Chapter meeting fax this form by **Tuesday, Oct. 2nd** to 501-582-4747 **Attn: Marshall Moody**

MEMBER NAME (PLEASE PRINT)	CENTRAL Oct 2 nd	NW ARK Oct 4 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.

October Program Summary

"Designing for Occupant Acceptance"

In order to meet the increased expectations of building occupants, designers must be aware of the conflicts between first cost economics, occupant productivity and life cycle costs. Buildings that do not meet the needs of the occupants often result in expensive redesign or worse, result in lawsuits against all parties involved. Recent court cases make it imperative that designers understand the changing 'rules' of the road.

Subjects:

1. Air Distribution: Selecting components and system parameters for effective air mixing.
2. Thermal Comfort: Determining optimum occupant comfort strategies.
3. Acoustics: Accurately predicting end use environments.
4. IAQ: The changing face of ASHRAE Std. 62, and upcoming developments, including Demand Controlled Ventilation.

Speaker - Dan Int-hout III

Education:

- ? Masters in Business Management from Central Michigan University
- ? B.A. In Biology & Physics from Denison University.

Employed:

- ? Carrier - Sr. Marketing Manager - AirSide Business Development. Prior, Design Engineering Manager, Carrier Air Terminal Facility, Savannah, Ga. 20+ Years in Air Distribution Research & Development.

ASHRAE, ISO & ARI Technical Committees:

- ? 28 technical papers and articles on VAV system performance, acoustics, air diffusion, controls and occupant comfort.
- ? Member ASHRAE Technical Activities Committee
- ? Recent Chairman of both ASHRAE Technical and Standards Committees on Thermal Comfort.
- ? Past Chairman of several other related ASHRAE Technical and Standards Committees.
- ? Past Member of ASHRAE Standards & Environmental Health Committees.
- ? Received the ASHRAE Distinguished Service Award in 1993.
- ? Current Chairman of ARI committee on Applied Acoustics.
- ? Chair of ISO 205 US Panel on Thermal Comfort

CENTRAL CHAPTER MEETING SCHEDULE 2001-2002	NORTHWEST SECTION MEETING SCHEDULE 2001-2002
<u>Sept. 5, 2001</u> Wednesday Lunch Program: Rx for Water Cooled And Cooling Tower Systems Location: Little Rock Club Meeting Sponsor: Carter Company	<u>Sept. 11, 2001</u> Tuesday Evening Program: Retrofit of Fayetteville Administration Building HVAC Speaker: Greg Anderson, P.E. Location: AWG Building
<u>Oct. 2, 2001</u> Tuesday Evening Program: Demand Control Ventilation Speaker: Mr. Dan Int-hout Location: Little Rock Club Meeting Sponsor: Carrier/Bryant of Ark.	<u>Oct. 4, 2001</u> Thursday Evening Program: Demand Control Ventilation Speaker: Mr. Dan Int-hout Location: Fayetteville Meeting Sponsor: Carrier/Bryant of Ark.
<u>Nov. 7, 2001</u> Wednesday Lunch Program: Design Considerations for Under Floor HVAC Systems Speaker: York International Tech Session: Environmental Enterprises Location: Little Rock Club Meeting Sponsor: Airetech Corp.	<u>Nov. 8, 2001</u> Thursday Evening Program: Design Considerations for Under Floor HVAC Systems Speaker: York International Tech Session: Environmental Enterprises Location: Fort Smith Civic Center Meeting Sponsor: Airetech Corp.
<u>Dec. 5, 2001</u> Wednesday Lunch Program: To Be Announced Location: Little Rock Club Meeting Sponsor: Trane Company	<u>Dec. 6, 2001</u> Thursday Evening Program: To Be Announced Location: Fayetteville Meeting Sponsor: Trane Company
<u>Jan. 8, 2002</u> Thursday Evening Joint Meeting with CSI/BOMA Program: Critical Environment Control Speaker: Franco Atassi - Siemens Location: Little Rock Club Meeting Sponsor: Powers of Arkansas	<u>Jan. 10, 2002</u> Thursday Evening Program: Critical Environment Control Speaker: Franco Atassi - Siemens Location: Fort Smith Meeting Sponsor: Powers of Arkansas
<u>Feb. 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>Feb. 7, 2002</u> Thursday Evening Program: Control System Design ASHRAE Standard 135 Speaker: Mr. Todd Cowles - Alerton Technologies, Inc. Location: Fort Smith Meeting Sponsor: Northwest Controls
<u>Mar. 6, 2002</u> Wednesday Lunch Program: U of A ASHRAE Research Project Report Speaker: Dr. Darin Nutter Location: Little Rock Club Meeting Sponsor: available	<u>Mar. 7, 2002</u> Thursday Evening Program: To Be Announced Location: Fayetteville
<u>Apr. 2, 2002</u> Tuesday Evening Program: ASHRAE Region VIII Report Speaker: Mr. Bill Harrison, DRC Location: Little Rock Country Club "Past Presidents Night" Meeting Sponsor: available	<u>Apr. 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 7, 2002</u> Tuesday Evening Program: To Be Announced Tech Session: CRC Evaluation Location: To Be Announced Meeting Sponsor: Fluid Solutions	<u>May 9, 2002</u> Thursday Evening Program: To Be Announced Location: Fayetteville

"Northwest Corner"

By: Marshall Moody

Our last meeting was scheduled for September 11, 2001. We decided not to have our section meeting in order to be at home with our families. This tragic day has changed our great country and world forever. The heartfelt prayers of those in Northwest Arkansas go out to the victims' families, the brave and wonderful men and women who desperately search for survivors, and to the leadership of our country.

Our next meeting will be held Thursday, October 4, 2001 beginning at 5:30 at the AQ Chicken House in Springdale. Dan Int-hout of Carrier Corporation will be speaking on "Demand Control Ventilation." You will have a choice of catfish, chicken fried steak or fried chicken. Separate checks will be given to each individual to minimize the administration and confusion of collecting money. You will be able to pay by cash, check, or credit card.

I would like to encourage the members of the Northwest Section to begin making plans and budgeting to attend the Chapter Regional Conference (CRC) 2002 on April 25, 26, and 27 in Little Rock. This is an important event that our section needs to step up and support.

GOD BLESS AMERICA!

Here are some facts about the Arkansas ASHRAE Chapter website - arkansasashrae.org.

Top 3 accessed sections:

- Home Page
- Schedule
- Newsletter

Top 3 Browser/OS used:

- Internet Exp. 5.5 under Win2000
- Internet Exp. 5.5 under Win98
- Internet Exp. 5.0 under Win98

As of September 6, 2001 - 180 Hits from 39 locations.

Research Promotion by John Hodoway

ASHRAE Research supports a wide variety of projects into basic research about heating, ventilating and air conditioning. The guiding principles are that research is not for a few, but for all people; not for the present, but for the future; and not for development of products, but for discovery of principles.

Results of research are presented at ASHRAE meetings and published in ASHRAE Transactions. They are used to revise ASHRAE Handbooks. Some are published as Technical Data Bulletins or Special Publications. Research is also incorporated into ASHRAE Standards and Guidelines.

Work is under way in these categories.

<u>Work Area</u>	<u>2001-2002</u>
IAQ, Comfort & Health	15%
Design Tools	15%
Commissioning, O&M	15%
Energy Conservation	15%
Environmental Materials (CFCs, etc.)	10%
Emerging Technology & Advanced Concepts	10%
Fire & Safety	5%
Refrigeration Systems	5%
Food Processing & Preservation	10%

During the 2000-2001 year, ASHRAE had over eight million dollars worth of projects under way. Over 1.2 million dollars was in Region VIII.

Please add your name to the Honor Roll for 2001-2002. It's simple and easy. The form is included in this month's newsletter.

Fax it to me at 372-0482 or fill it out at **arkansasashrae.org**.

2000 - 2001 Arkansas ASHRAE Research Contributors

Golden Circle Contributors (*\$10,000 or More*)

1. Arkansas Chapter

Research Partners (*\$2,500 to \$9,999*)

Major Donors (*\$250 to \$2,499*)

(Listing is in alphabetical order, individuals first)

1. Paul Briscoe
2. Sam Cummings
3. Gary Hildebrand
4. Alan Hope
5. Airetech Corporation
6. Arkansas Mechanical Contractors
7. Comfort Systems USA
8. Cromwell Architects Engineers
9. Fluid Solutions
10. Jack T. Carter Company
11. Mike Gowen Mechanical
12. Pettit & Pettit
13. Powers of Arkansas
14. Riddick Engineering Corp.
15. Sunbelt Mechanical
16. The Batson Firm
17. Tinsley-Mullen Engineers
18. The Trane Company
19. Wade Company
20. William A. Harrison, Inc.

Honor Roll Contributors

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

1. Bill Goodman
2. Baker Refrigeration Systems
3. IHP Industrial

Other Research Fund Contributors

1. ICE, Inc.
2. Independent Air Conditioning

Arkansas ASHRAE Chapter

Honor Roll Research Contributor Plan

A \$100 contribution to the Research Fund is required for an individual to be recognized as an Honor Roll Contributor. It may be inconvenient for some to make a single contribution of that amount. Because ASHRAE Research is important, the chapter offers this plan.

The Plan is very simple. The member signs a pledge to donate a minimum of \$100 to ASHRAE Research during the 2000-2001 Society Year. A minimum of \$15 is contributed each month starting in October, 2001 until the \$100 is reached with a contribution of \$10 in April, 2002. Contributions by check, made payable to "ASHRAE Research Fund," are due by the 10th of each month. A reminder e-mail will be sent on the 1st of each month. Contributions may be made at the monthly meeting or mailed to:

**John Hodoway, Arkansas ASHRAE Research Promotion Chairman,
Cromwell Architects Engineers, 101 South Spring Street, Little Rock, AR 72201**

Members signing a pledge will be recognized as 2001-2002 Honor Roll Pledges in the Chapter Newsletter. All contributions will be forwarded monthly to ASHRAE Research for credit in the individual contributor's name. Those fulfilling their pledge will be recognized by the Society and awarded a commemorative coin in the fall of 2002 as appreciation for their contribution.

ASHRAE Research Fund Honor Roll Pledge

In order to further the research conducted by ASHRAE into Indoor Air Quality, Comfort and Health, Design Tools, Energy Conservation, Food Processing and Preservation, Environmentally Safe Materials, Fire and Safety, Refrigeration Systems, Emerging Technologies and Advanced Concepts, I pledge to contribute a minimum of \$100 to the ASHRAE Research Fund as outlined in the Arkansas ASHRAE Chapter Honor Roll Research Contributor Plan.

Name: _____

Company: _____

Address: _____

City, State Zip: _____

Telephone: (____) ____-____ Member Number: _____

e-mail address: _____@_____

Signed: _____

ASHRAE Research Fund Contributions are fully deductible under Section 170 of the US internal Revenue Code