



# THE RAZORBACK REPORT

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

www.arkansasashrae.org

Volume XIV, Issue I, September 2002

## The President's Message

By Randy Moore, P.E.

Welcome members, students, and guests to our Arkansas ASHRAE chapter for the new year 2002-2003. Over the summer, we realized the benefit of our Chapter Leadership Initiative while planning the year for our chapter. Each of our committees will have Co-chair's that will participate in their committees' activities and return as Chair the following year. Our Honors and Awards Co-chair will be the CRC Delegate in order to prepare for nominating our Chapter members at CRC. Finally, our immediate past president will chair Research Promotion each year while serving as Alternate CRC Delegate. In the future, our chapter will benefit from the continuity of a broad base of experienced leadership since more than twenty members will be involved in Committees, Board of Governors, and Chapter Officers. The Co-chairs and future leaders of ASHRAE include Russell Black, Coby Sutton, James McKinnie, Ben Baugher, and James Dayer. To our Board of Governors, Chapter Officers, and Committees Chairs and Co-Chairs, I join our membership and say thank you for volunteering to serve the Arkansas Chapter of ASHRAE.

Our Society President, Mr. Donald G. Colliver, Ph.D., P.E., has challenged ASHRAE to realize the dream of *Building a Better World*. Mr. Colliver proposes energy, environment, education, and empowerment as cornerstones for realizing this dream. In addition, our Society President encourages members to look to the strength of our past as we build for the future. The Arkansas Chapter of ASHRAE celebrated fifty-years at the CRC in Little Rock in May 2002, and over the summer our committees have planned technical sessions, programs, tours, and fundraisers for the Arkansas Chapter of ASHRAE to realize the dream of *Building a Better World*.

Our programs chair, Rick Sellers, P.E., has an outstanding line-up for tours, technical sessions, educational seminars, and programs. The format for our meetings will be technical sessions, announcements and committee reports during our meal, followed by the program. This format will allow each committee to report directly to the membership in order for our chapter to "be informed" and will permit the Arkansas Chapter of ASHRAE Board to have more time each month to "conduct the business of our chapter".

Our Board of Governors, Chapter Officers, and Committees are excited about the activities planned for this year. We have a golf tournament scheduled in September; informative tours and programs through the end of the year and a joint meeting with our architectural colleagues hosted by the Little Rock Chapter of CSI in January. The highlight of the year will be the 2003 Region VIII CRC hosted by the Fort Worth Chapter. Look inside your newsletter for more details.

## September Meetings

### Central Arkansas

**Date:** Wednesday, Sept 4<sup>th</sup>  
**Location:** Arkansas State Capitol  
Cafeteria - on basement level  
**Cost:** \$16.00 / person  
**Schedule:**  
10:30 AM Board Meeting  
11:30 AM Lunch  
12:00 PM Program "State Capitol HVAC System  
and Renovations"  
12:15 - Tour of the Capitol  
1:00 PM

### Northwest Arkansas

**Date:** Thursday, Sept 5<sup>th</sup>  
**Location:** Ft. Smith - location to be determined  
**Schedule:**  
5:30 pm Social  
6:00 pm ASHRAE Business / Dinner  
6:30 pm Program - "Power Quality"  
by Mr. Richard Smith w/ O G & E

## Northwest Corner

By Marshall Moody

Another year of ASHRAE begins September 5, 2002! I hope you are excited to begin. With many thanks to Little Rock and the quality programs that they have arranged, we hope that you will come out and join us for food, fellowship, and important information sharing. Please see the program schedule in the Razorback Report or on the web site at [www.arkansasashrae.org](http://www.arkansasashrae.org). As always, the NW Section will meet on the first Thursday of each month from September to May at 5:30 PM unless there is a scheduling conflict.

The program will be on power quality by Richard Smith of Oklahoma Gas & Electric, so please make plans to attend and catch up with old friends at our September 5<sup>th</sup> meeting. It will be in Fort Smith beginning at 5:30 PM. The meeting place has yet to be determined, so please watch for the e-mail announcement that will hopefully have more information.

God bless America and our military personnel who bravely protect our freedom!

## May Board of Governors, Officers & Committee Chairmen Meeting Minutes

By: Rick Sellers, Chapter Secretary

**Call to Order:** President Tracy Hayes called the meeting to order at 4:37 p.m. The meeting was held on May 7, 2002 at Anderson's Cajun Wharf. Those present were: Tracy Hayes, Randy Moore, Rick Sellers, John Hodoway, Russell Black, Wade Wetzler, Chance Hollingsworth, Mike McClellan, Tom Hanlon, Terry Granderson, Eddie Finley, Jim Monk, Chris Shaw, and Chris Call.

**President:** President Tracy Hayes distributed tally sheets showing PAOE points to date. There was discussion on the Chapter's contribution to Research. President Hayes then called for committee reports and they were presented as follows:

**Vice President/Programs:** Vice President/Program Chairman Randy Moore announced that tonight's scheduled program speaker is Mr. Stuart McGregor on "Sound and Vibration Testing and Analysis" with a tech session by Mr. Jim Sadler on "Vibration Isolation".

**Secretary:** The Meeting Minutes as published in the May Newsletter were accepted as printed.

**Treasurer:** President Hayes presented the monthly Treasurer's report. The report was accepted as amended to show \$ 5,000 contribution to ASHRAE Research.

**Membership:** Co-Chairman Russell Black announced that outstanding receivables from roster ads will be re-invoiced. There was discussion on the new Chapter database software.

**Research Promotion:** Chairman John Hodoway announced Research Promotion contributions of approximately \$20,000 to date with approximately \$5,000 more pledged. With a \$5,000 contribution from the Chapter, we will be at approximately 90% of goal.

**Historian:** Vice President Randy Moore announced the new history banner was on display at CRC. We have several new awards from CRC to be added.

**Honors & Awards:** President Hayes announced that the Chapter nominations have been sent to Society. Mike McClellan made a motion that the CRC delegate is automatically co-chairman of the Honors & Awards committee. Randy Moore seconded. The motion was voted on and passed.

**Student Activities:** Mike McClellan announced that the UA is in the process of submitting a project to the regional student design competition. Mike McClellan also made a motion to award two \$250 Chapter scholarships. Tracy Hayes seconded. The motion was voted on and passed. President Hayes will present the scholarship applicants for Chapter approval at tonight's meeting.

**TEGA:** Co-Chairman Terry Granderson announced the Chapter is not qualified for the

Educational Consortium as defined by the state Department of Economic Development. He also announced the Chapter Consortium will remain in place and working and has training scheduled for Thursday at Pulaski Tech. Chairman Tom Hanlon announced the Chapter had won two TEGA awards which were presented at CRC and the overall Chapter winner for the chapter competition will be announced tonight.

**Newsletter:** Chairman Wade Wetzler announced that August 19th would be the deadline for newsletter articles. All grass roots committee chairman are encouraged to have an article.

**Social:** Chairman Chance Hollingsworth announced the spring golf tournament is this month at the Country Club of Arkansas. Chairman Hollingsworth encouraged everyone to try to have two non-ASHRAE members per team in an effort to encourage new membership.

**Reception:** No report.

**Webmaster:** No report.

**CRC:** Mike McClellan announced that two motions were presented at CRC. One motion passed and one failed.

**Old Business:** President Hayes reminded everyone of the bylaws review and encouraged anyone interesting in helping to contact her.

**New Business:** Terry Granderson suggested that the Chapter review the new International Mechanical Code. Randy Moore made a motion to form a sub-committee to review. The committee would be a part of TEGA and consist of four consultants, one contractor, and one manufacturer's rep. John Hodoway seconded. The motion was voted on and passed. TEGA Chairman Hanlon will assign a sub-committee chairman.

**Adjournment:** With no further new business President Hayes adjourned the meeting at 5:30 p.m.

## May Arkansas ASHRAE Chapter Meeting Minutes

By Rick Sellers, Chapter Secretary

**Call to Order:** At 6:00 p.m. the Chapter meeting was called to order with 29 members and 5 guests in attendance. The meeting was held at Anderson's Cajun Wharf on May 7th, 2002. President Tracy Hayes introduced Chris Call who presented the Tech Session speaker, Mr. Jim Sadler from Mason Industries. Mr. Sadler presented a Tech Session on vibration isolation and seismic protection which included a live demonstration of an out-of-balance fan utilizing various types of isolation. Mr. Sadler presented a seismic example of isolated and non-isolated equipment, different types of isolators & snubbers, examples of seismic failures, and an example of specifications. Following the Tech Session was the dinner break. Tracy Hayes re-

called the meeting to order after dinner and introduced Keith Wortsmit who presented a report on CRC. DRC Bill Harrison announced that CRC was a success and the success was due to the hard work of the committee. DRC Harrison presented the Chapter a 50<sup>th</sup> anniversary certificate from Society and a ribbon for the awards banner. TEGA Chairman Tom Hanlon announced the Chapter had won two regional TEGA awards which were presented at CRC. Chairman Hanlon then announced that The Cromwell Firm was the overall winner of the Chapter's competition for their entry of the Highway Department Testing Labs. President Hayes presented Bryan Porbeck and Brett Shirley as scholarship candidates. Secretary Sellers made a motion to approve the candidates' scholarships at \$250 each. Keith Wortsmit seconded. The motion was voted on and passed. Social Chairman Chance Hollingsworth announced the spring golf tournament and encouraged two non-ASHRAE members per team to promote new membership. Vice President Randy Moore introduced Board of Governor member Jim Monk. Mr. Monk presented President Hayes with a president's pin and a certificate for outstanding service.

**Program:** The program began at 7:18 p.m. Tom Hanlon introduced Mr. Stuart McGregor whose program was "Sound and Vibration Testing and Analysis". Mr. McGregor presented examples of vibration relationship equations and graphs of them, common frequency ranges for HVAC, examples of bandwidth and how to measure using a FFT analyzer, example of specifications and encouraged ASHRAE to come up with a definitive guideline for future specs, and concluded with final thoughts. A question and answer session followed.

**Adjournment:** With no further business the meeting was adjourned at 7:55 p.m.

## Chapter History

For Richard Palmer and James McKinnie by Randy Moore, P.E.

Our Chapter received a fiftieth anniversary certificate and ribbon from Society at our CRC in Little Rock. Our chapter history committee goals for PAOE are as follows:

Index and maintain chapter archives; update historical display for presentation at CRC in Fort Worth; monthly reporting of activities through newsletter articles; maintaining original chapter history and updating past year; documentation of chapter history for person, system or event; performing leadership recall interviews; attending CRC History Committee Workshop in Fort Worth; reporting plans and activity to RVC for History by November 1<sup>st</sup>; and achieving Regional Gold Ribbon Award.

**Research Promotion**

By John Hodoway

For the 2001-2002 ASHRAE year, Arkansas ASHRAE members and their companies contributed \$30,161 to ASHRAE Research. This was a little over 90% of the goal set for us by Society. ASHRAE as a whole raised \$1,721,921.

Region VIII raised \$255,253 which was a little over 90% of goal and ranked first in the Society.. The Arkansas chapter ranks 5<sup>th</sup> in the number of assigned members, ranks 4<sup>th</sup> in the dollars raised for research, and ranks 3<sup>rd</sup> in dollars per member. Plus, we put on a very successful and well received CRC at the same time. We should be proud of these accomplishments.

Our goal for this year has not been received, but will be about the same as last year. We need 10 members for the Research Promotion committee. Committee members will have about 20 to 25 contacts to make for ASHRAE Research. The time involved will be less than an hour a month. Please help.

**Student Activities**

By Chris Ahne

President Randy Moore has requested the addition of a co-chair to each of the grass roots committees and Coby Sutton has been named to this position. Coby has been given the direct charge to focus on activities at Arkansas Tech University and to assist in starting a student chapter at ATU. We have a kickoff meeting with the ATU next week.

This year's goal in Student Activities is to visit an engineering college or tech school each month. We also hope to have a more successful Engineer's Week. For Engineer's Week we are considering a possible facilities tour at the Victory Building and would appreciate help in coordinating this event.

Another goal is to duplicate one of the highlights in last year's student activities. We hope to have another entry in the ASHRAE Student Design Competition. Last year, six students from the University of Arkansas represented our chapter by submitting a design in the Student Design Competition. The winning design came from Ferris State University. I would like to thank Dr. Darin Nutter and Dr. Rick Couvillion of the University of Arkansas for their leadership and support of the design competition. I would also like to say thanks to Scott Archer and John Symonds of Fort Smith for providing design guidance to the students. We're looking forward to a great year. We would appreciate your support and involvement in Student Activities.

**Membership Promotion**

By Russell Black

The Membership Promotion Committee has created two new subcommittees. We have created the New Member Orientation Subcommittee to enhance new members' initiation into ASHRAE, and we have established the Membership Renewal Subcommittee to facilitate the membership renewal process.

The New Member Orientation Subcommittee's responsibilities will include: a) to ensure the public introduction of new members at general meetings, b) to orient new members at meetings, including discussing ASHRAE benefits and arranging private introductions to ASHRAE officers, and c) to assign a mentor to each new member. We will introduce the details of the mentor program at our October general meeting. Committee members of the New Member Orientation Subcommittee for 2002-2003 are Membership Co-chair Chris Shaw and myself, President Randy Moore, and Reception Chair, James Dayer.

The Membership Renewal Subcommittee will have the responsibility of promoting membership renewal by contacting members non-paid to assist them in the membership renewal process. Committee members of the Renewal Subcommittee for 2002-2003 will be Membership Co-chair Chris Shaw, myself, and (2) other members.

**Webmaster**

By Brett Bolan

Our plans for the year will be to sell and maintain website business card ads to fund website expense, update the website within 5 days of the newsletter while working with the Newsletter Editor to send out newsletter by email, in Adobe PDF format. There are also plans for a monthly Newsletter article which will be an update on the webmaster's activities. Other areas of focus on the website will be a job and employment register, a posting of registration for golf, fundraisers, and CRC, as well as a Newsletter archive on the website. Creation and maintenance of chapter, society, and industry links are also intended. This year the domain name has been brought up to date and plans have been made to move website to new hosting site and purchase Adobe Acrobat and Microsoft Publisher for newsletter publication. Website activity over the summer shows 1526 hits from 143 computers. In looking towards the future, plans have been made to explore website registration for chapter activities, recording and posting video program or tech session, and attend CRC webmaster workshop in Ft. Worth.

**TEGA News**

By Tom Hanlon

Greetings, where did the summer go! Seems like we just signed off and this morning the school buses were running again. Our TEGA year is starting to take shape. We've had a couple of planning sessions through the summer and feel that we have good direction with attainable goals.

We've expanded the committee this year. Terry Granderson (HVACR Dept) will be our Gov Affairs person. Terry will also continue to head up our education outreach program. Steve Titus PE (Wade Co.) joins the committee as Co-Chairman and technology transfer person. Tracy Parker (John Prince Co.) will take care of our newsletter article and will head up the technology awards program. I'll work with the Programs Committee and will take care of the Refrigeration duties.

Briefly, our goals for the year are:

- 1) To sponsor technical professional development seminars for the Chapter membership.
- 2) Write monthly newsletter articles to encourage chapter involvement in TEGA areas and to bring news of upcoming activities.
- 3) To jointly sponsor technical seminars with complimentary organizations such as (NEBB) National Environmental Balancing Bureau, (RSES) Refrigeration Service Engineers Society and (BOMA) Building Owners & Managers Association
- 4) Expand the participation of the membership in the Technology Awards Program.
- 5) Promote a candidate for the Government Affairs Award.
- 6) Host a "Refrigeration Night" meeting with a site visit.
- 7) Announce the Chapter Award Winners at the April meeting.
- 8) Announce and present the Chapter overall winner at the May meeting.
- 9) Continue an aggressive program of fundamental HVAC education for the residential and light commercial field through the state HVACR department.

To accomplish the above, we'll need the help and input of all the membership. Thanks in advance.

Meet our new Chapter Officers



Randy Moore  
President



Rick Sellers  
Vice-President



John Carter  
Secretary



Chance Hollingsworth  
Treasurer

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

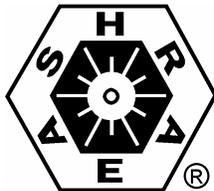
Board of Governors

Eddie Finley	501-374-5420
Doug Bown	501-227-8181
Steve Titus	501-375-1181
Mike McClellan (Delagate)	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, August 30<sup>th</sup>** to 501-374-1802 **Attn: Rick Sellers**

For reservations to the Northwest Arkansas Chapter meeting fax this form by **Tuesday, September 3<sup>rd</sup>** to 479-582-4747 **Attn: Marshall Moody**

**ROUTING**


<b>MEMBER NAME (PLEASE PRINT)</b>	<b>CENTRAL Sept 4<sup>th</sup></b>	<b>NW ARK Sept 5<sup>th</sup></b>	<b>EATING (Y or N)</b>

**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.**

### September Program Summary

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

This month's meeting will feature a tour of our Arkansas State Capitol. The Secretary of State's office and The Batson Firm will provide us with a brief history of the Capitol and the Capitol's HVAC system and also the plan for future improvements. The tour will feature some of the mechanical spaces and systems but will also highlight some of the recently renovated spaces restored to their original appearance. Don't miss this opportunity to tour and learn about your Arkansas State Capitol.

The historic Arkansas State Capitol serves as the seat of our government. Construction took 16 years -- from 1899-1915. The Capitol was built on the site of the state penitentiary and prisoners helped construct the building. They lived in a dormitory that was left on the Capitol grounds while construction was taking place.

The exterior of the Capitol is limestone, which was quarried in Batesville, Arkansas. Total construction cost was \$2.2 million and today's value of the building is \$320 million. The front entrance doors are made of bronze. They are 10 feet tall, four inches thick and were purchased from Tiffany's in New York for \$10,000. The cupola is covered in 24 karat gold leaf.



## CENTRAL SECTION MEETING SCHEDULE 2002-2003

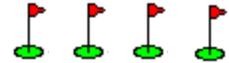
<p><b><u>September 4, 2002</u></b>                      Wednesday Lunch (11:30 am)  <u>Program:</u> Tour of the Capitol  <u>Speaker:</u> The Batson Firm &amp; The Secretary of State's Office  <u>Location:</u> State Capitol Cafeteria (located on the basement level)</p> <p style="text-align: center;"><b>Mtg. Sponsor – The Batson Firm</b></p>	<p><b><u>October 2, 2002</u></b>                      Wednesday Lunch (11:15 am)  <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> Little Rock Club</p> <p style="text-align: center;"><b>Mtg. Sponsor – Fluid Solutions</b></p>	<p><b><u>November 6, 2002</u></b>                      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 Nunnely (Nunnely and Associates)  <u>Location:</u> Holiday Inn West</p> <p style="text-align: center;"><b>Mtg. Sponsor – Concepts &amp; Designs</b></p>
<p><b><u>December 4, 2002</u></b>                      Wednesday Lunch (11:15 am)  <u>Tech Session:</u> Turbocore Compressor Technology  <u>Program:</u> Chilled Water for the 21<sup>st</sup> Century  <u>Speaker:</u> Mr. Ed. Tinsley, P.E.  <u>Location:</u> Little Rock Club</p> <p style="text-align: center;"><b>Mtg. Sponsor – Airetech</b></p>	<p><b><u>January 7, 2003</u></b>                      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;"><b>Mtg. Sponsor – Fluid Solutions</b></p>	<p><b><u>February 5, 2003</u></b>                      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;"><b>Mtg. Sponsor – Trane Company</b></p>
<p><b><u>March 5, 2003</u></b>                      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;"><b>Mtg. Sponsor – Powers of Arkansas</b></p>	<p><b><u>April 1, 2003</u></b>                      Tuesday Evening (5:15 pm)  <b>Past President's Night</b>  <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;"><b>Mtg. Sponsor –</b></p>	<p><b><u>May 6, 2003</u></b>                      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;"><b>Mtg. Sponsor –</b></p>

## NORTHWEST SECTION MEETING SCHEDULE 2002-2003

<p><b><u>September 5, 2002</u></b>                      Thursday Evening  <u>Program:</u> Power Quality  <u>Speaker:</u> Mr. Richard Smith (O G &amp; E)  <u>Location:</u> Fort Smith</p> <p style="text-align: center;"><b>Meeting Sponsor –</b></p>	<p><b><u>October 3, 2002</u></b>                      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;"><b>Mtg. Sponsor – Fluid Solutions</b></p>	<p><b><u>November 7, 2002</u></b>                      Thursday Evening  <u>Tech Session:</u> Psychometrics  <u>Program:</u> How and Where to Apply Desiccant Dehumidification Technology  <u>Speaker:</u> Mr. Mark Nunnely (Nunnely and Associates, Inc.)  <u>Location:</u> Fayetteville</p> <p style="text-align: center;"><b>Mtg. Sponsor – Concepts &amp; Designs</b></p>
<p><b><u>December 5, 2002</u></b>                      Thursday Evening  <u>Tech Session:</u> Turbocore Compressor Technology  <u>Program:</u> Chilled Water for the 21<sup>st</sup> Century  <u>Speaker:</u> Mr. Ed. Tinsley, P.E.  <u>Location:</u> Ft. Smith</p> <p style="text-align: center;"><b>Mtg. Sponsor – Airetech</b></p>	<p><b><u>January 9, 2003</u></b>                      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;"><b>Mtg. Sponsor – Johnson Controls</b></p>	<p><b><u>February 6, 2003</u></b>                      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;"><b>Mtg. Sponsor – Trane Company</b></p>
<p><b><u>March 6, 2003</u></b>                      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;"><b>Mtg. Sponsor – Powers of Arkansas</b></p>	<p><b><u>April 3, 2003</u></b>                      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;"><b>Meeting Sponsor –</b></p>	<p><b><u>May 1, 2003</u></b>                      Thursday Evening  <u>Program:</u> Absorption Chillers and Chiller/Heaters  <u>Speaker:</u> Mr. Ron Spencer  <u>Speaker:</u> York  <u>Location:</u> Fayetteville</p> <p style="text-align: center;"><b>Meeting Sponsor –</b></p>



# 2002 ASHRAE Research Fall Golf Tournament



FRIDAY – Sept. 20<sup>th</sup> - 1:30 P.M. - Shotgun Start  
> Stone Links Golf Club <  
N. Little Rock, Arkansas

**Entry Fee:** \$300.00 per team  
Includes cart, refreshments,  
and lunch. (served at 12:30)  
Each player gets 2 mulligans.

**Prizes Awarded for:** 1<sup>st</sup> Place Team  
2<sup>nd</sup> Place Team  
3<sup>rd</sup> Place Team  
Longest Drive  
Closest to Pin  
**\$10,000.00 Hole-In-One  
Contest**

**Lunch:** Box 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, 701 Collins Suite E, Little Rock, Arkansas 72202. All player names and money must be delivered to me by **Sept. 6<sup>th</sup>**. 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, 701 Collins Suite E, Little Rock, Arkansas 72202.

Name: \_\_\_\_\_ Company: \_\_\_\_\_

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_ Signed \_\_\_\_\_ Date \_\_\_\_\_

