



The Razorback Report

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

www.arkansasashrae.org

Volume XV, Issue VIII, April 2004

The President's Message

By Rick Sellers, P.E.

Greetings fellow ASHRAE members. Our March meeting at the Whole Hog Café was another great success. I know I say that every month and probably sound like a broken record (do they even still make records?!?) but Arkansas ASHRAE has enjoyed a terrific year. Your committee chairs have worked hard this year to make it all possible and we all owe them a big Thank You. And we also owe you a big Thank You for your attendance. There is yet another great meeting scheduled for April so let's continue the terrific attendance by everyone coming.

Our April meeting really is special. First, it will be our annual Past Presidents Night. The Past Presidents will enjoy a free meal courtesy of the Chapter. Second, our Chapter History will be on display. Third, we are pleased our current Regional Director (DRC), Mr. Hugh McMillan, PE, will be attending and will brief us on Region VIII activities of the year. Fourth, we're honored the program will be presented by Past Society President and ASHRAE Distinguished Lecturer, Mr. Bill Coad, PE. Mr. Coad's presentation is entitled "The Energy Ethic" and discusses energy conservation as an ethic. Fifth, the meeting is at the Little Rock Country Club and is certainly the nicest place we'll have a meeting this year. And finally (as if the above wasn't enough), adult beverages are included in the cost of your meal. So, as you can see there are multiple reasons to attend so mark your calendars now and make plans to attend. Please note the meeting will be on Tuesday evening (04/06/04) and will be at the Little Rock Country Club.

At the March meeting the Nominating Committee's slate of Officer candidates for 2004-2005 was read. The candidates are John Carter, President; Chance Hollingsworth, President Elect; John Hodoway, Secretary; Steve Titus, Treasurer; and Randy Ragsdale, Tom Hanlon, Tracy Hayes, Board of Governors. Also at the March meeting, the floor was opened for additional nominations for each of the above mentioned positions. There were no additional nominations. At the April meeting a Chapter vote will be taken to officially accept the Nominating Committee's candidates. Congratulations to each of the candidates who will serve one year terms.

The March ASHRAE Continuing Education Seminar on the new Arkansas Mechanical Code was well attended and well presented. Special thanks to the presenters Mr. Terry Granderson, Mr. Sam Cummings, Ms. Susan Reckon, Mr. Jerry Duncan, and Mr. Billy Pope. Thanks to Tom Hanlon and Terry Granderson for making all the arrangements and thanks to everyone that attended.

On April 14th, Arkansas ASHRAE will be providing another Continuing Education opportunity by hosting a Society satellite broadcast on "Homeland Security for Buildings". The seminar will again be 3 hours in length beginning at 11:00 am and running until 2:00 pm. A box lunch will be served and the meal cost is included in your registration fee. Trane Arkansas has graciously offered to host the event in their training/meeting room and we certainly thank them for their hospitality. This is a very timely topic. See the enclosed flyer for further details and

April Meetings

Central Arkansas

Date: Tuesday, April 6th
Location: Country Club of Little Rock
Cost: \$35.00 / person
(includes salad, dinner, drinks & dessert)

Schedule:
4:30 pm Board Meeting
5:30 pm Social
6:00 pm Dinner
6:30 pm Region VII Summary
by RVC Hugh McMillan, PE
7:00 pm - Program - "The Energy Ethic"
8:00 pm by Past ASHRAE Society President
Bill Coad, PE

Meeting Sponsor: Airetech & Northwest Controls

Northwest Arkansas

Date: Wednesday, April 7th
Location: A.Q. Chicken Resturant
Springdale

Schedule:
5:30 pm Social
6:00 pm ASHRAE Business / Dinner
6:30 pm - Program - "The Energy Ethic"
7:30 pm by Past ASHRAE Society President
Bill Coad, PE

you can also find out more by visiting

<http://membership.ashrae.org/template/AboutLinkLanding/category/1561#2585>.

It's officially spring and that means it's time for golf! Our spring tournament is scheduled for May 7th at Cypress Creek. Our fall tournament was a huge success thanks to everyone who participated, volunteered and/or donated prizes or money. Eddie Finley's and each of your efforts are greatly appreciated. But it's time to do it again. Please send Eddie your team registrations and if you opt not to play contact him to volunteer. Any and all help will be sincerely appreciated. See the enclosed flyer for further details.

Also, as I've mentioned several times, our Chapters Regional Conference (CRC) is scheduled for April 22-24th in Tyler, Texas. I encourage everyone to make plans to attend. You can find out more at <http://crc.ashrae-etex.org>.

That's it for now, as always, you can find out what's going on in the Chapter by visiting our website –

<http://www.arkansasashrae.org>.

See you April 6th.

March Board of Governors, Officers, And Committee Chairmen Meeting Minutes

By Chance Hollingsworth, Chapter Secretary

Call to Order: President Rick Sellers called the meeting to order at 10:42 a.m. The meeting was held on March 3, 2004 at the Whole Hog Cafe. Those present were: Rick Sellers, Chance Hollingsworth, John Hodoway, Wade Wetzler, Russell Black, Chris Ahne, Tom Hanlon, Scott Smith, Chris Call, James Dayer.

President: President Rick Sellers opened the meeting and requested Old Business to be read. President Sellers discussed the mailing of the C.R.C. flyer, which highlights dates, accommodations, and schedule of events set for the upcoming Region VIII C.R.C. scheduled for April 22nd – 24th in Tyler, Texas. President Sellers announced the Region VIII would formally nominate Mr. Bill Harrison for Society Treasurer. President Sellers detailed changes in Officer Board duties for next year; T.E.G.A. will be a part of programs, which will be handled by the incoming Vice President who is the Program Chair. Other chapter business discussed involved ASHRAE Society program for hosting Chapter sites free of charge in exchange for advertising rights on the sites.

Vice President/Programs: Reported by President Rick Sellers on behalf of Vice President John Carter. April meeting the Arkansas Chapter will play host to Region VIII D.R.C. Mr. Hugh McMillan. April meeting will also be Past Presidents night in which Chapter Past Presidents will be honored. Meeting will be held at the Little Rock Country Club. President Sellers announced today's meeting will feature a technical session by Alan Hope of Tinsley-Mullen Engineers and the Program will be presented by Dr. Darin Nutter of the University of Arkansas.

Secretary: Motion was made to approve Meeting Minutes as published in the March Newsletter. Motion approved.

Treasurer: Treasurer John Hodoway presented the Monthly Treasury Report for both February and March. Treasurer Hodoway drafted Arkansas Chapter's check for \$10,000.00 to ASHRAE research promotion. Mr. Hodoway converted the C.R.C. checking account to an interest bearing money market account.

Membership: Chairman James Dayer announced the membership committee is in the middle of its "Delinquency Campaign". Chairman Dayer proposed a sub-committee be formed to contact delinquent members.

Research Promotion: No Report.

Historian: No-Report

Honors & Awards: No-Report

Student Activities: Chairman Chris Ahne expressed appreciation to John Carter, Brett Boland, and Tom Hanlon for their participation in Engineers Week. John Carter, Brett Boland, and Tom Hanlon took time to visit students on several Arkansas campuses as part of Engineers week

TEGA: Chairman Tom Hanlon discussed the upcoming ASHRAE Satellite broadcast on "Homeland Security for Buildings" will held on Wed. April 14th at Trane of Arkansas. Chairman Hanlon highlighted the upcoming T.E.G.A. sponsored Code seminar to be held on Wed. April 10th at the Arkansas State Health Department, Northwest Chapter will host the Code seminar on April 21st. Contact Bill Sharp for details on the Northwest Section Code Seminar.

Newsletter: Chairman Wade Wetzler announced that March

23rd will be the deadline for newsletter articles.

Social: No-Report

Reception: No-Report

Webmaster: No-Report

Refrigeration: No Report

Old Business: (Carryover) Newsletter Chairman Wade Wetzler to forward a list of names for the roster to Russell Black.

New Business/ Action Items: Newsletter Editor Wade Wetzler to bring a camera to the April Past Presidents meeting. Social Chairman Finley to forward spring golf fundraiser announcement to newsletter editor. Randy Moore to forward the forward information for the chapter roster to Rick Sellers and James Dayer.

Adjournment: After no further new business President Sellers adjourned the meeting at 11:16 a.m.

March Arkansas ASHRAE Chapter Meeting Minutes

By Chance Hollingsworth, Chapter Secretary

Call to Order: At 11:30 a.m. the Chapter meeting was called to order with 65 in attendance. The meeting was held at the Whole Hog Cafe on March 3rd, 2004. The program began with the Technical Session.

Technical Session: Mr. Alan Hope with Tinsley-Mullen Engineers presented the technical session. Technical session detailed the "Building Metering and Controls Project" currently underway at the University of Arkansas. Mr. Hope discussed the goals of the project and provided a breakdown of the process used to take on a project of this magnitude. Mr. Hope detailed the metering and monitoring of utilities and addition services such as rate structure and rate design. Mr. Hope discussed the importance of measurable cost savings and the use of automated metering cost allocating program, which complies all bills, metering and monitoring readings and allocates the cost to each department. Mr. Hope pointed out the importance of this information to the University for fast and accurate billing, analysis of usage and to encourage energy conservation.

General Meeting: President Sellers opened the general meeting at 12:20 P.M. President Sellers announced the nominating committees nominees for the upcoming year and opened the floor for other nominees from the membership. No other nominees were presented for consideration.

Program: President Sellers introduced this month's program and presenter Dr. Darin Nutter with the University of Arkansas. Dr. Nutter's presentation was titled "Effective Thermal Conductivity for Vertical-Bore Heat Exchanger with Ground Water Flow". Dr. Nutter's presentation began by highlighting traditional design practices for ground-coupled heat pumps. Dr. Nutter discussed the importance of ground water flow, layered geologies, and heat transfer variations when calculating heat exchanger bore depth. Dr. Nutter discussed the opportunity to possibly reduce heat exchanger bore depth by considering both the convection and conduction heat transfer characteristics of the bore field. Dr. Nutter discussed the development of a test matrix and factors used to determine the convection characteristics of heat exchanger bores. For more information on this ASHARE research project (RP-1016) or to provide feedback to Dr. Nutter please Email him at: dnutter@uark.edu

Adjournment: With no further business the meeting was adjourned at 12:50 p.m.

TEGA

By Tom Hanlon

A big ASHRAE “tip of the hat” to Terry Granderson, Sam Cummings, Susan Recken and all the others that put on our March 10th Code Update seminar. Had folks from all corners of the state attend. Much great information on the new Mechanical Code, plus pending changes in the Energy Code was presented. Again thank to all.

Our April event is the ASHRAE Satellite Broadcast on “Homeland Security for Buildings”. This really looks like a great and very timely subject. In looking over the preview there is lot’s of discussion regarding security of ventilation systems and special concerns for filtration. Should be interesting. Date is April 14th @ 11:00 AM central time. Location is Trane Arkansas training room. Fee is \$30.00 and will include a box lunch. Flyer is in this month’s newsletter and on the web site.

We still need Technology Awards application for this year. Contact Steve Titus and let’s get some awards working.

Putting together the final details of our May Meeting / Facilities Tour at NCTR. The facility is undergoing a major mechanical renovation with a district cooling project and a major automation upgrade. As part of our tour we’ll be seeing some of this work in the final stages and probably some of it operational. The Engineering Staff (Ted Kozak, Gregg Tapp and Tommy Baioni) plus the folks from TME and Powers of Arkansas will be heading up our tour. Additionally there will be a Tech session on HEPA filter testing put on by Alan Daniel (A+ Bio-Medical of Tulsa). Details, times and a route map will be in next month’s newsletter. Additionally there will be a bus available for those that choose not to drive.

This Month in Arkansas ASHRAE History

By James McKinnie

16 April 1974: The board met at the Sam Peck Hotel to discuss the research fund, new members, and what tasks still needed to be accomplished to with the Presidential Award. Larry Jones presented the technical session on a “Practical Solar Energy Application” that he had installed in his garage. John Marshall of Amber-Booth in Houston spoke on the relationship of vibration isolation equipment and controlling noise in buildings, as well as showing both good and bad installation techniques for this equipment.

16 Apr 1985: The chapter met at the Holiday Inn-Downtown for dinner. Officers announced plans for a spring outing to an upcoming Travelers baseball game and the CRC in Oklahoma City. Jim Bailey of Riddick Engineering Firm presented details on an energy conservation contest entry at Northwood Institute that involved pulse combustion furnaces, duct work changes, storm windows, pool covers, cogeneration and energy management systems.

02 Apr 1991: The chapter met at St. Vincent’s. The board recognized and presented Honor Roll certificates to firms and individuals contributing to the ASHRAE Research fund. Don Huggins presented the status of the upcoming CRC meeting, hosted by the Arkansas chapter. Ed Tinsley presented the technical session on indoor air quality. After dinner, the companions of members met to discuss their upcoming activities during the CRC.

Student Activities

By Chris Ahne

National Engineer’s Week was a great success with the student activities committee visiting more than 300 students. We had 12 teach-in presentations at 7 different schools. The presentation covered the different disciplines with engineering and gave examples of local industries and engineering jobs. We visited Hot Springs High School, North Little Rock High School, Pulaski Academy, Catholic High School, and Arkansas Baptist High School. Presentations were also given at Pulaski Tech.

We also had a facility tour at Immanuel Baptist Church’s new facility. Eight students from Arkansas Tech University toured the facility and learned about how a central HVAC system can effectively serve a multi-use facility.

Our student branch at ATU recently gained notoriety on our Society website. A photo of the student chapter members is currently on the Student Zone. To locate this article and the good-looking bunch of ASHRAE members, go to www.ashrae.org/template/StudentZoneLanding, or in navigation from the website, click on ‘Student Zone’ on the ‘Member Resources’ page.

I would like to express sincere appreciation for the work that Tom Hanlon, John Carter, Brett Bolan put into the E-week activities. We also had key help from the Department of Workforce Education. Without all of your help, we could not have brought this level of interaction to the students. The students and our community have benefited greatly from your time investment. Thank you.

I have resumes from graduating engineering students. If anyone would like access to these resumes, please contact me at cahne@trane.com.

Student Activities

Arkansas Tech University students at a recent facility tour at the new Immanuel Baptist Church in Little Rock.

2003-2004 Chapter Officers

<u>President</u>	Rick Sellers	501-374-3731	fax: 374-1802
<u>Vice-Pres.</u>	John Carter	501-666-5463	fax: 666-8253
<u>Secretary</u>	Chance Hollingsworth	501-374-5420	fax: 370-9298
<u>Treasurer</u>	John Hodoway	501-372-2900	fax: 372-0482

Board of Governors

Chris Call	501-663-8886
Russell Black	501-327-2409
Steve Titus	501-375-1181
Tracy Hayes (CRC Delegate)	501-833-0239
Randy Moore (CRC Alternate)	501-280-0404

Committee Chairs

Membership	James Dayer	501-663-8886
Student Activities	Chris Ahne	501-661-0621
Programs	John Carter	501-666-5463
Historian	James McKinnie	501-987-7666
Refrigeration	Mike McClellan	501-661-0621
Research	Randy Moore	501-280-0404
Honors & Awards	Tracy Hayes	501-833-0239
TEGA	Tom Hanlon	501-661-0621
Newsletter	Wade Wetzler	501-803-3328
NW Section	David Sheets	479-636-5004
Social	Eddie Finley	501-374-5420
Reception	Scott Smith	501-666-5488
Webmaster	Ben Baugher	501-280-0404

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**THE RAZORBACK REPORT**

Arkansas Chapter of ASHRAE
P.O. Box 180
Little Rock, AR 72203



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

Arkansas Chapter Meeting RSVP Form

Company Name: _____

Phone #: _____ Fax #: _____

Signed: _____

ROUTING

For reservations to the Central Arkansas Chapter meeting fax this form by **Friday, April 2nd** to 501-666-8253 *Attn: John Carter*

For reservations to the Northwest Arkansas Chapter meeting send this form by **Monday, April 5th** to *nwarkashrae@yahoo.com Attn: David Sheets*

MEMBER NAME (PLEASE PRINT)	CENTRAL April 6 th	NW ARK April 7 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.

Arkansas Chapter April Meeting

By John Carter, P.E., Program Chairman

Hello, Arkansas-ASHRAE. Our April meeting in Little Rock will be Past-President's night where we honor all past presidents. In fact, we are privileged to have several distinguished guests to attend and speak at this meeting. Past Society President and ASHRAE Distinguished Lecturer, Mr. Bill Coad, PE, will present the program on "The Energy Ethic".

Mr. Coad will discuss that energy conservation is an ethic, and if this ethic is embraced by those who practice in the energy sciences, the inevitable result will be improved system performance, energy conservation and economics.

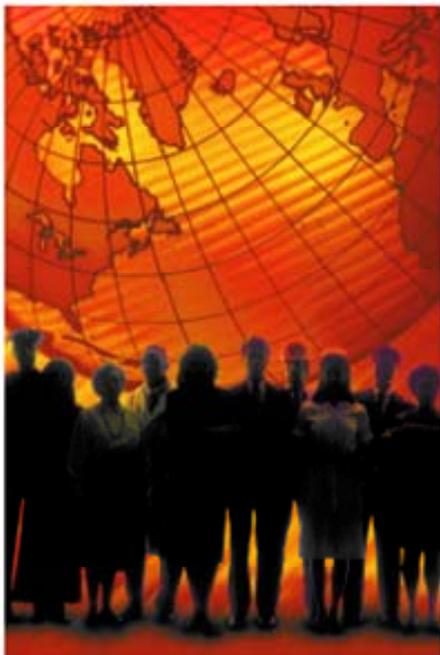
In addition, we have the privilege of hosting our current Region VIII RVC, Hugh McMillan, PE, who will present a summary of Region VIII activities this year. If that is not all, we will enjoy great food and atmosphere of The Country Club of Little Rock. This will be great meeting and one you will not want to miss!

ARKANSAS ASHRAE
Continuing Education Event

When: Wednesday April 14th, 11:00 AM to 2:00P.M.

Where: TRANE ARKANSAS – Training – Meeting Room
1501 Westpark Suite #9 – Little Rock

Locally Sponsored by: Arkansas Chapter of American Society of Heating, Refrigerating and Air Conditioning Engineers, Inc.



**ASHRAE SATELLITE BROADCAST
HOMELAND SECURITY
FOR BUILDINGS**

Sponsored by the
American Society of Heating, Refrigerating
and Air-Conditioning Engineers
Presidential Ad Hoc Committee
on Homeland Security
with support from the
Alfred P. Sloan Foundation

Wednesday April 14th, 2004
11:00 AM – 2:00 PM CST

Fee: \$30.00 per person. Includes box lunch. Please contact Tom Hanlon or Christy Honeycutt @ Trane Arkansas 661-0621 or tjhanlon@trane.com. Make checks payable to Arkansas ASHRAE. Fax registration to 501-661-9109 and pay at the door or mail to 1501 Westpark Suite #9, Little Rock, Ark 72204.

.....**Registration Information**.....

Yes, I will attend the “Homeland Security Broadcast” on April 14th

Name _____

Company & Phone # _____



2004 ASHRAE Research Spring Golf Tournament

FRIDAY – May 7th – 1:00 P.M.

> Cypress Creek Golf Course <
Cabot, Arkansas



Entry Fee: \$300.00 per team
Includes cart, refreshments,
and lunch. (Before Play)
Each player gets 2 mulligans.

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

Lunch: Hamburgers, hotdogs, etc...
Provided by Powers of Arkansas

Format: 4-Man Team Scramble
Limited to the first 22 teams (first 22 paid play)
Ties will be broken by using score & hole handicaps

Fill out this form and email or fax to: Eddie Finley, (501) 370-9298, efinley@powersofarkansas.com. All player names and money must be received by **May 4th**. Any teams received after this date may not get to play. Each team is responsible for replacement players due to cancellations.

Phone: 374-5420 Fax: 370-9298

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. (Hole sponsors will be recognized by a sign at a hole on the day of the tournament and will be recognized in the ASHRAE newsletter)

___ Corporate Sponsorship - \$200 (There will be a special area near the scoreboard to recognize corporate sponsors). Please send banners to the below address.

___ 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: Eddie Finley, 1111 West 6th Street, Little Rock, Arkansas 72201.

Name: _____ Company: _____

Phone: _____ Fax: _____ Signed _____ Date _____

2004 – 2005 Programs Questionnaire

Chance Hollingsworth (2004-2005 Programs Chairman)
(501) 374-5420 / (501) 370-9298
chollingsworth@powersofarkansas.com

1. Meeting Time:

- a. I like having most of the meetings at lunch.
- b. I would like a split of lunch and night meetings (half lunch/half night).
- c. I would like to have most of the meeting at night.

Comments or Suggestions _____

2. Meeting Location:

- a. I like the majority of the meetings in the same place every month.
- b. I would like to have a couple (2-3) of different locations per year.
- c. I would like to have the meeting at a different location every month.
- d. I like to have the meeting at the Little Rock Club.

Comments or Suggestions _____

3. Meal Cost:

- a. I'm willing to pay a little more for quality food & service (\$15-\$18).
- b. I would like to pay less for meals (\$8-\$15).
- c. I would be willing to pay more if the quality/service were more (\$18-?).

Comments or Suggestions _____

4. Facility Tours:

- a. I would prefer to have no facility tours per year.
- b. I would prefer to have one facility (construction project) tour per year.
- c. I would prefer to have one facility (manufacturing) tour per year.
- d. I would prefer to have more than one facility (either) tour per year.
- e. I would like to tour _____.

Comments or Suggestions _____

5. Continuing Education:

- a. I would not be interested in any Arkansas ASHRAE sponsored seminars.
- b. I would be interested in one (4) hour seminar.
- c. I would be interested in one (8) hour seminar.
- d. I would be interested in two (4) hour seminars on separate dates.
- e. I would like to attend a seminar about _____.

Comments or Suggestions _____

6. Technical Session Content:

- a. The technical sessions are fine the way they are.
- b. I don't have any interest in attending the technical session
- c. The technical sessions are too general and need to be more technical.
- d. The technical session content is too much like the program content.
- e. I would like to have more product specific content
- f. I would like to attend a technical session (s) about _____.

Comments or Suggestions _____

7. Program Content:

- a. The programs are fine the way they are. []
- b. The programs are too general and need to be more technical. []
- c. The programs are too commercial and product specific. []
- d. The programs should be more diverse and include Architectural, Electrical, Civil issues. []
- e. I would like to have more forum discussions. []
- f. I would like to attend a program(s) about_____.

8. Programs Under Consideration:

- a. Developing Schematic Design.
Comments:_____
- b. Thermal Guidline (TC 9.9) Hi Density Electronic Cooling (DataCenters)
Comments:_____
- c. N.C.T.R. Distributred Cooling System (Facility Tour)
Comments:_____
- d. (Student Activities) Design Competition Presentation
Comments:_____
- e. U of A follow-up: (Building Metering & Controls Project)
Comments:_____
- f. Refrigerant Manufacturing Facility Tour (Lennox Stuttgart Mfg. Facility)
Comments:_____

Additional comments/suggestions_____

9. Other:

- a. I would also like to suggest_____
- _____
- _____
- _____
- _____
- _____
- _____
- _____