



THE RAZORBACK REPORT

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

Volume XII, Issue I

September 2000

The President's Message

by Mike McClellan

Hello chapter members. I trust everyone has enjoyed their summer and that you are looking forward to the ASHRAE new year. Our chapter is embarking on a very aggressive schedule for the month of September. The first meeting will be held at the Alltel Arena. For those of you that have not had a chance to visit this impressive facility, please take time to join us for a discussion and technical presentation of the HVAC and Ice making systems. If you'd like, bring a guest. The northwest section will meet and have a presentation at Wal-Mart's new state of the art warehouse facility. On September 12, our chapter co-hosts a satellite broadcast introducing Standard 90.1-1999 in Fayetteville and Little Rock. This is an ASHRAE, IESNA, and DOE sponsored broadcast that will have something for everyone in our industry. On September 20, our chapter is co-hosting another event. This one, with the Arkansas Dept of Economic Development Energy Office, will be tailored to consulting engineers interested in Ground Source Heat Pump systems. That's not all though, if you act now you will have time to enter the fall golf outings. The Little Rock outing closes out the month of September with its research fund raiser on the 29th. The Northwest section golf outing is scheduled for October 6th. Look inside the newsletter for details on these events. As you can tell, our chapter is aggressively attempting to provide multiple opportunities for current members and guests to become involved in ASHRAE. Look at the schedule and you will see that five of our meetings are scheduled during the lunch hour. Many people said they will attend lunch meetings so we listened. Thank you for the privilege to serve as your chapter president and I look forward to seeing you at many of the upcoming events.

P.S. If you are interested in serving ASHRAE as a committee member please contact me at mjmcclellan@trane.com

September Meetings

CENTRAL ARKANSAS

Date: Tuesday, September 5

Location: The Alltel Arena
Meeting Room 2A

(Park in the Washington Ave. lot south of the arena. Enter at ticket office. Lower level south.)

Cost: \$16.00 / person

Schedule:

4:30 P.M. Board Meeting

5:30 P.M. Social

6:00 P.M. Announcements & Dinner

6:45 P.M. "Alltel Arena HVAC and Ice Systems"

NORTHWEST ARKANSAS

Date: Thursday, September 7

Location: AQ Chicken / Wal-Mart Warehouse, Bentonville
Speaker: Jeff Bowan

Cost: \$11.00 / person

Schedule:

5:30 P.M. Social

6:00 P.M. Dinner

6:30 P.M. "HVAC Analysis of the Wal-Mart Distribution Center"



ASHRAE Fall Golf Tournaments

Central Arkansas

Country Club of Arkansas

Maumelle, AR

September 29, 2000

Contact: Chance Hollingsworth

(501) 374-5420

(See Registration Insert)

Northwest Arkansas

Eagle Crest Golf Club

Alma, AR

October 6, 2000

Contact: Scott Archer

(501) 452-8922

(See Registration Insert)

CENTRAL SECTION MEETING SCHEDULE 2000-2001

<u>September 5, 2000</u> Tuesday Evening Program: ALLTEL Arena HVAC Speaker: Mechanical Team Location: ALLTEL Arena “Student Night”	<u>October 4, 2000</u> Wednesday Lunch Program: UV-C Germicidal Lamps for A/C Systems Speaker: Robert Scheir, Ph. D. Location: Little Rock Club “Membership Night”	<u>November 1, 2000</u> Wednesday Lunch Program: EPA, IAQ & Schools Speaker: Dr. Fred Fowler Location: Little Rock Club “TEGA Night”
<u>December 6, 2000</u> Wednesday Lunch Program: “VAV Design for Acceptable IAQ” Speaker: Bill Coad Location: Little Rock Club “Research Promotion Night”	<u>January 9, 2001</u> Hosted by CSI Program: _____ Speakers: _____ Location: _____ Joint mtg w/ CSI	<u>February 7, 2001</u> Wednesday Lunch Program: Commissioning - NEBB Speaker: _____ Location: Little Rock Club “Membership Night”
<u>March 7, 2001</u> Wednesday Lunch Program: _____ Speaker: _____ Location: Little Rock Club “Refrigeration Night”	<u>April 3, 2001</u> Tuesday Evening Program: _____ Speaker: Bill Harrison Region VIII RVC Location: Little Rock Country Club “Past President’s Night”	<u>May 1, 2001</u> Tuesday Evening Program: Semco Plant Tour Speaker: _____ Location: Powers bus to Morrilton “Student Night”

NORTHWEST SECTION MEETING SCHEDULE 2000-2001

<u>September 7, 2000</u> Thursday Evening Program: WM Warehouse HVAC Speaker: Jeff Bowan Location: AQ Chicken, Bentonville	<u>October 5, 2000</u> Thursday Evening Program: UV-C Germicidal Lamps for A/C Systems Speaker: Robert Scheir, Ph. D. Location: Fort Smith	<u>November 2, 2000</u> Thursday Evening Program: EPA, IAQ & Schools Speaker: Dr. Fred Fowler Location: AQ Chicken, Springdale
<u>December 7, 2000</u> Thursday Evening Program: “VAV Design for Acceptable IAQ” Speaker: Bill Coad Location: Wal-Mart Development Complex, Bentonville	<u>January 11, 2001</u> Thursday Evening Joint mtg. w/ ASME Program: _____ Speaker: _____ Location: Fort Smith	<u>February 8, 2001</u> Thursday Evening Program: ASHRAE Research Project RP 1016 Results Speaker: Darrin Nutter PhD Location: AQ Chicken, Fayetteville
<u>March 8, 2001</u> Thursday Evening Program: _____ Speaker: _____ Location: Fort Smith	<u>April 5, 2001</u> Thursday Evening Program: Fayetteville Courthouse HVAC System Retrofit Speaker: Greg Anderson Location: AQ Chicken, Fayetteville	<u>May 3, 2001</u> Thursday Evening Program: Exhaust/Ventilation fan systems Speaker: _____ Location: AQ Chicken, Springdale

TEGA

By: John Carter

Welcome Back! The themes this year for TEGA are education, relationships, and projects. For TEGA to benefit you, our members, the TEGA committee will keep you educated on the latest technology and innovative solutions. We will do this through the newsletter, our local website, and the monthly meetings. For TEGA to benefit our industry, all of us must present our projects, products, and ideas to those in our sphere of influence. For TEGA to benefit our community, the TEGA Committee will develop relationships with those that serve our community professionally or through volunteer efforts. These areas of service could be school boards, neighborhood associations leaders, elected officials, etc... If you do serve our community or present to a group of 10 or more, please let us know by completing the presentation forms available on our website. Lastly, For TEGA to benefit ASHRAE at the society level, we plan to submit at least one project for an energy award. For those of you who would like to learn more about the requirements for the award contact me at jtc@tinsleymullen.com because I am looking for a 'Few Good Projects'. I look forward to a great year in TEGA with you!

Way Back in History:

By: John Hodoway

In 1894, Professor Hermann Rietschel wrote a book on the rudiments of engineering science of air conditioning. Here are just a few points:

- ? Calculating heat gain, using maximum outdoor ambient temperature and directional wall exposures.
- ? The normal heating practice of using 100% outside air would result in a very high cooling system operating cost, because of the latent heat removal encountered in moisture reduction. Therefore, recirculation of part of the room air is important. Supply ducts should introduce cooled air far away enough from the room occupants so that the air is thoroughly diffused.
- ? A series of formulas was introduced to determine the temperature to which the air must be cooled to remove a given weight of moisture, to determine the amount of latent and sensible heat that must be removed, and to determine the surface area of the cooling coil. Formulas are included for calculation of the amount of air to be circulated.

Taken from: "Early Twentieth Century Air-Conditioning Engineering" by Bernard Nagengast, Member, ASHRAE; ASHRAE JOURNAL, March, 1999.

Student Activities

By: Tom Hanlon

The September meeting at Alltel Arena will be our first student night of the year. We've invited students from UALR, Pulaski Tech, ITT Tech and several area high schools to join us for the tour. Hope we have a good turnout. Let's go out of our way to make the students feel welcome and a part of our group. Thanks!

Calendar of Events—September

3	4 Labor Day	5 ASHRAE Meeting Alltel Arena 5:30 PM 1.0 PDH	6	7 ASHRAE NW Ark. A.Q. Chicken / Wal-Mart Distribution Center 5:30 PM	1 / 8	2 / 9
10	11	12 ASHRAE/DOE/ IESNA Broadcast Standard 90.1 1pm -3 pm	13	14	15	16
17	18	19	20 Ground Source Heat Pump Design Ark. Elec. Coop. 8am -5pm 7.0 PDH	21	22	23
24	25	26	27	28	29 Central Arkansas ASHRAE Golf Tour- nament CC of Arkansas 1:30 pm	30

ASHRAE Satellite Broadcast**September 12, 2000****1pm - 3pm**

ASHRAE, along with the Dept. of Energy and IESNA, will sponsor a satellite broadcast entitled, *Standard 90.1-1999 - The Next Generation of Commercial Building Energy Standards*. The broadcast will be held at The Trane Company in Little Rock and at the UA Center for Continuing Education in Fayetteville. Please RSVP to John Clayborn at 661-0621.

NEBB / ASHRAE Seminar**October 6, 2000**

The Arkansas chapter of NEBB (National Environmental Balancing Bureau) and our ASHRAE Chapter will jointly sponsor and host a six hour technical seminar. Location is the Pulaski Technical College campus in North Little Rock. Features of the seminar will be a three hour presentation and forum on Indoor Air Quality, plus two technical sessions. Schedule and registration forms will be distributed at the September ASHRAE meeting. 6.0 P.D.H. Please RSVP by Sept. 15.

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2000-2001 Chapter Officers

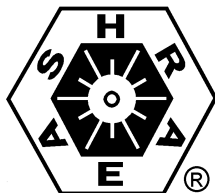
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Board of Governors

Chris Call 663-8886
 Jim Monk 376-7155
 Sherry Baldwin 221-3250
 Mark Carter (Delagate) 666-5463
 Ed Riddick III (Alternate) 374-9219

Committee Chairs

Membership	Richard Palmer	374-9219
Student Act.	Tom Hanlon	661-0621
Programs	Tracy E. Hayes	280-0404
Historian	John Hodoway	372-2900
Refrigeration	Tim Staley	666-2900
Research	Alan Hope	666-6776
TEGA	John Carter	666-6776
Newsletter	Wade Wetzler	224-1606
NW Section	Marshall Moody	582-8239
Social	Chance Hollingsworth	374-5420
Reception	Eddie Finley	374-5420
Webmaster	Brett Bolan	661-0621

**THE RAZORBACK REPORT**

Arkansas Chapter of ASHRAE

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