



The Razorback Report

www.arkansasashrae.org

Volume XIX, Issue 2, October 2007

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

SEPTEMBER MEETINGS

Northwest Arkansas

Date: Thursday, October 4th

Location: Fayetteville Country Club

Cost: TBD

Schedule:

4:30 pm Steering Committee Meeting

5:30 pm Social

6:00 pm ASHRAE Business / Dinner

6:45-8:00 pm Program - "A Brief Introduction to Displacement Ventilation" - Ken Loudermilk

Central Arkansas

Date: Wednesday, October 3rd

Location: Camp Aldersgate

Cost: \$15.00 / person

Schedule:

10:30 am Board Meeting

11:30 am Tech Session - "A Brief Introduction to Displacement Ventilation" - Ken Loudermilk

12:00 pm Lunch

12:15-1:00 pm Program - "Chilled Beams" - Ken Loudermilk

News Flash:

ASHRAE Changes Course for Fall Golf Tournament

Central Arkansas Fall golf tournament has been moved to a new date and location—See flyer inside for details.



The President's Message

*By Steve Titus
Chapter President*

To start off this month, I need to thank all of you in central Arkansas who showed up for the meeting in the ark last month. You all braved the flood, and waded the parking lot to make a great meeting. Northwest Arkansas had a good crowd too, and you guys set a great trend for the new year.

October is shaping up to be a busy month. First the meeting is on Chilled Beams, and everyone be sure to remember that the location is changing to Camp Aldersgate for everyone in central Arkansas. We are co-hosting a seminar with NEBB on October 5th for all of you in the end of the year PDH scramble, and then some fun and games at the golf tournament. Everyone should make note of the change of date and venue on the golf tournament, and give Tony DeMarco an extra pat on the back for pulling the last minute change off so quickly.

If there is anyone who wants to participate, we are looking for co-chairs, and just general help at our events. And as always, if there is anything that you think would make our chapter better, or a program you would like to see just let someone in the chapter leadership know. Thanks for setting us on the course for another great year.

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Month	Tech	Speaker	Meeting Topic	Speaker	Meeting	Date	Location	Meeting	
	Session							Sponsor	Designation
September	To Flush or Not to Flush	Tom Hanlon	Sustainable Communities	Chris Ladner	Central	5-Sep	Union Station	TME Inc.	
					NWA	6-Sep	Fayetteville Country Club		
October	Brief Introduction to Displacement Ventilation	Ken Loudermilk	Chilled Beams	Ken Loudermilk	Central	3-Oct	Camp Aldersgate	Trane Arkansas	Membership Promotion
					NWA	4-Oct	Fayetteville Country Club		
November	Arkansas ASHRAE History	TBA	Variable Refrigerant Flow	Corey Bartlett	Central	7-Nov	Camp Aldersgate	Airetech Corporation	Student Meeting
					NWA	8-Nov	Fayetteville Country Club		
December	Camp Aldersgate Facility Tour	TBA	Kitchen Ventilation	Bruce Radant	Central	5-Dec	Camp Aldersgate	Pettit & Pettit	Research Promotion
					NWA	6-Dec	Fayetteville Country Club		
January	Government Affairs Update	TBA	Refrigeration Practices and Innovations	Wal-Mart Representative	Central	9-Jan	Camp Aldersgate	Powers of Arkansas	Refrigeration Meeting
					NWA	10-Jan	Fayetteville Country Club		
February	Effective Communications	Barry Benator	Fundamentals of Project Management – <i>Joint Meeting with CSI</i>	Barry Benator	Central	6-Feb	Camp Aldersgate	Comfort Systems USA	
					NWA	7-Feb	Fayetteville Country Club		
March	Building Pressurization	TBA	Pool Room Dehumidification	Scott McGinnis	Central	5-Mar	Camp Aldersgate	Wade Company	
					NWA	6-Mar	Fayetteville Country Club		
April	Retro-Commissioning Cost and Benefits	TBA	Tour of ADEQ Building	Tom Hanlon	Central	2-Apr	ADEQ	Fluid Solutions	Membership Promotion
					NWA	3-Apr	Fayetteville Country Club		
May	Past President's Night	N/A	Past President's Night	N/A	Central & NWA	16-May	Dickey Stephen's Park	Batson Bravo	Student Meeting
							Fayetteville Country Club		

Programs - New Location

Submitted By:

James Dayer - Programs Chair

NEW LOCATION – SAME GREAT FOOD

After years of letting us hold our lunch meetings in their meeting space, Whole Hog Café has decided due their need for more seating during the lunch hour they cannot accommodate us anymore. That has lead to searching around for a new meeting site.

In line with ASHRAE's focus on sustainability, this month we will begin holding our meetings at Camp Aldersgate's Commons Center. Registered as the first gold certified LEED building in Arkansas, the Commons Center demonstrates renewable energy, rainwater harvesting, features natural daylight and other environmentally friendly components. The facility is truly a step up from the meeting space at Whole Hog with a beautiful setting and as an added bonus the people in the back will still be able to hear the speaker when the A/C kicks on.

For those of you missing your monthly dose of Whole Hog Bar-B-Que, don't despair. We will be catering in the traditional fare from Whole Hog for the meeting. It will be important for us to get an accurate count on the RSVP since we won't be able to send back to the kitchen for more if we have more people show up than we planned for. Please help us in this effort to make sure we order the correct amount of food.

On a final note, although we have been reassured that there is adequate parking at Camp Aldersgate some of it may be further away than we are accustomed to. So to keep up the Sustainable actions of our chapter please considering carpooling if there are multiple people from your office planning on attending the meeting. We look forward to seeing you there.

(Continued on page 4)

Social Activities

Submitted By:

Tony Demarco – Social Chair

Hello again everyone, It looks like we are truly going to have a "Fall" tourney this time. Rebsamen really put it to me this time so I'm done with them. Every other course in central Arkansas is booked for the 5th and the next date I could get that works for almost everyone is Oct. 26th. I apologize if this doesn't work out for some, but this is my only option left. The fine folks at Country Club of Arkansas in Maumelle have assured me that the weather will be outstanding on this day. I've attached the new flyer so please take a look at it and get your teams to me ASAP via E-mail or fax to the address and fax number on the entry form. The Country Club of Arkansas is in the best shape that I have ever seen right now so it should be a great day of golf. Please forward this to anyone and everyone so that no one gets left out. If you would like to sponsor a hole, please get that info to me soon so that I can make sure to have a sign ready in time and remember all donations (logo balls, towels, hats, etc.) are very appreciated and can be sent to me at Airetech. The address is on the entry form. Thank you all for your patience and support. Hope to see you on the course.

Membership

Submitted By:

Joel Funkhouser – Membership Chair

I'd like to welcome our two newest members: Ben Weigand of Little Rock and Maxwell Good of Little Rock. We applaud you for joining and look forward to seeing you at our October meeting.

I encourage everyone to invite friends and colleagues to our meetings and to be on the lookout for potential new members. We have a strong chapter, and additional members will help to make us even stronger. As always, if you have any questions pertaining to membership, please contact me and I'll be happy to assist you.

Programs - New Location

(Continued from page 3)

The Commons Center at Camp Aldersgate

Camp Aldersgate successfully raised \$2.5 million to construct and furnish the Commons Center, which lies at the center of the camp's 120-acre oasis. The 12,000 square foot stone, steel and glass structure houses a new dining hall, two activity rooms and large porches for outdoor activities. The facility is totally accessible and exceeds the requirements mandated by the Americans with Disabilities Act. In addition to addressing concerns about accessibility, the building is also designed to take into account the need to be environmentally sensitive.



The Hall of Trees marks the entrance to the Commons Center. The main corridor is an open, sun-lit space with three tree-like structures constructed of wood and steel spaced down the center of the corridor. The Hall of Trees was designed to be in line with the live trees directly in front of the building.

Registered as the first gold certified LEED (Leadership in Energy and Environmental Design) building in Arkansas, the Commons Center demonstrates renewable energy, rainwater harvesting, features natural daylight and other environmentally friendly components. The stone is native to Arkansas; the insulation is made from recycled blue jeans and denim shirts. In every instance possible, materials used to construct the facility came from recycled or renewable resources. The paint used does not emit any fumes, and all furnishings are environmentally conscious.

"LEED is becoming a powerful driving force and it is apt that Camp Aldersgate's mission of serving medically challenged children and their families in an environmentally sustainable environment was a compatible achievement with the LEED Gold Certification. This non-profit organization should be commended for their commitment to the health of their constituents and for their stewardship of this special place," said Rick Fedrizzi, USGBC President and CEO.

The Commons Center was designed by project architect, Wesley Walls of The Wilcox Group, along with associated architect David Perry with Roark Perkins Perry Yelvington, LEED certification coordinated by Martha Jane Murray, also with The Wilcox Group. Alessi Keyes Construction was the general contractor for the building.



The camp is located on Aldersgate Road, ½ mile south off of Kanis Road in Little Rock, Arkansas. It is near the intersection of I-430 and I-630 and is less than one mile from Baptist Medical Center.

Chapter Website Update

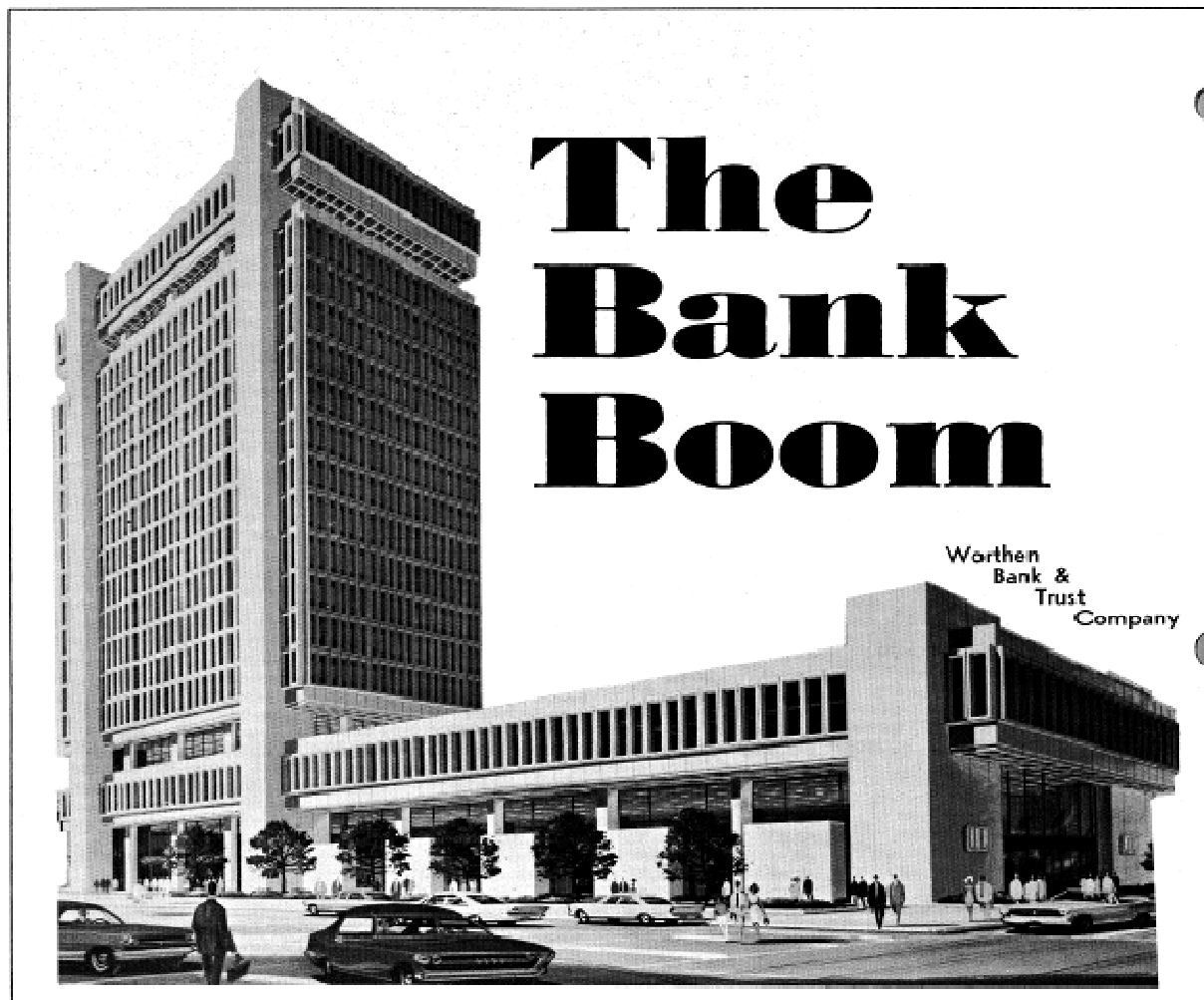
The website will soon be up-to-date and full of helpful information! Check with Arkansas-SASHRAE.org There you will find direct links to pay dues, update your membership info (e.g. e-mail address), and donate to ASHRAE Research Promotion. There will also be a calendar of events with a list of meeting dates and program topics for the year (once we finalize the details). We will strive to keep the content on the website current, complete and accurate. Don't hesitate to let us know how we can improve. Please visit us at www.arkansasashrae.org soon.

ASHRAE Historian

Submitted by:
Hank Wade - History Chair

The following article was first published in the March/April 1968 Edition of "Dimensions Newsmagazine", a publication of the Arkansas Chapter of the American Institute of Architects. While some of the names have changed a little over time the project costs have changed quite a bit. You can compare this bank building boom 30 years ago to the residential condominium building boom that has been ongoing now for several years here in the downtown area. Urban renewal was the story 30 years ago and it still is today.

(Continued on page 6)



FIRST NATIONAL BANK

UNION NATIONAL BANK

WORTHEN BANK & TRUST COMPANY



FEDERAL RESERVE BANK



The largest new development in Downtown Little Rock, Arkansas, is the "Bank Boom". Over \$25 million is being reinvested in the heart of the city by the banks. The money is going for new construction, remodeling and expansion of the five banks - Federal Reserve Bank, First National Bank, Commercial National Bank, Worthen Bank and Trust Company, and Union National Bank.

The Federal Reserve Bank, Union National Bank, and Worthen Bank and Trust Company purchased land from the Housing Authority of the City of Little Rock for new construction.

The new Little Rock Branch of the Federal Reserve Bank of St. Louis was completed and occupied recently. These newly constructed facilities on land acquired from the Housing Authority at a cost of \$600,000. The structure occupies a quarter-block plot with an-

other quarter-block for parking, with two adjacent lots available for future expansion when needed. Space has been reserved on two sides of the bank for landscaping.

The \$3 million structure encompasses 75,000 square feet, and the outside facing is constructed of black granite on the first floor and buff-colored stone on the upper stories. Architects for the bank were Schwarz and Van Holfen of St. Louis, Missouri, in association with Ginocchio, Cromwell, Carter and Neyland of Little Rock.

First National Bank in Little Rock is being expanded to cover a full block in length and a half-block in width. The existing structure is being remodeled to include a new facade, entrances, lobby and office space.

First National's three-story addition will have drive-in facilities on the ground floor, departmental offices on the second floor and

some rental space on the third floor. This expansion will triple office space for the bank. Trees will be planted along the sidewalks on three sides of First National Bank. The surface facade architecture is 104 cast concrete panels. The eight ton panels being put up are 30 feet tall and 40 inches deep and range in width from four feet, 10 inches to five feet, four inches. The difference in width is not noticeable, but it was necessary because the existing columns that bear most of the weight of the panels are not all the same distance apart. The overall effect will be "a more personal, three-dimensional expression than could be achieved with flat, curtain walls" according to the architects, Wittenberg, Delony and Davidson of Little Rock.

The Commercial National Bank computer annex at 208-10 Main Street was completed and occupied



FIRST NATIONAL BANK



UNION NATIONAL BANK

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the first of the year. In the remodeling, two cast-iron pillars at the front of the building were uncovered. The pillars were incorporated into the new design by the architect, E. B. Cromwell, and were retained as relics of the building's past. Parts of the columns' leafshape capitals were missing when uncovered, and the bank has had them duplicated and restored. Prior to acquisition by the bank, the space was occupied by two businesses: A newsstand and a sporting goods store.

In the middle 1950's, using the designs of Architect Bruce R. Anderson, the main building was completely rebuilt, an adjacent building 25 x 150 feet was torn down and a modern steel structure of five floors and a basement was integrated with the main bank building. Across the street west of Commercial National Bank a quarter of a block was purchased. Sub-standard buildings were demolished and a new modern drive-in facility was built. With regard to the beautification of the Downtown area, scrubs and magnolia trees were planted and a parking lot was established for bank customers and the general public as well as the drive-in facility.

In 1955, when the Commercial National Bank building was completed, approximately 25 percent of the space was occupied by the bank and 75 percent was rented as offices. The growth of the bank since has resulted in the bank occupying over 50 percent of the building. The establishment of the computer annex freed space within the main Commercial National Bank building, and this space is presently being remodeled for use by the Trust Department, which will triple that department's present quarters. This rehabilitation of structures is a part of the Housing Authority's program to revitalize Downtown.

In the case of the Worthen Bank and Trust Company, the past has returned to Little Rock to make way for the future. Worthen has built an imaginative sidewalk barrier around the construction of its new 18-story bank and office building. The facade is a replica of the block where the first Worthen stood in 1877. The three-quarter block site will be the fifth location for the bank, but the first one purchased through Urban Renewal. The newest home for the



FIRST NATIONAL BANK

bank will provide 237,711 square feet of floor space, a seven-level parking area and eleven high speed elevators.

Two unique features of the new Worthen Building will be roof gardens and greenery planted along the ground level walkways of the building. The \$7 million structure will be set 25 feet off Capitol Avenue to allow for the planting of trees and shrubbery and a walkway. A 200 seat community auditorium, exhibition galleries and

possibly a heliport will be in Worthen Bank's new home, too.

This was the largest land sale in the history of the Housing Authority of the City of Little Rock (\$1,425,299.95) and the second largest sale in the history of Pulaski County. Only the cost of the land for the Little Rock Air Force Base was greater.

The bank is being built within four blocks of the other four Downtown banks. The Worthen Building has been designed by

Erhart, Eichenbaum, Rauch and Blass, Architects and E. K. Riddick, Jr., Engineer, of Little Rock.

Union National Bank is moving for the first time since 1929. The bank is building a new, 21-story bank and office building across the street from the present bank building. The half-block structure will be the tallest building in Little Rock, with the office tower rising 279 feet.

The Capitol Avenue entrance will be through a plaza which will feature a planting and landscaped area, a large pool and a fountain. It will be an 18-story glass curtain wall tower set on a three-story base of white pencil vein Italian marble and black veined ebony granite. Upon completion, the building, furnishings, fixtures and land will have a value of approximately \$9 million.

A mail room will be located midway in the building and will be staffed by the Little Rock Post Office. A total of 400 parking spaces will be available in an attached parking deck north of the main structure for bank customers, building tenants, visitors and the public. Below the parking deck will be a quarter-block drive-in facility.

The bank was designed by Thomas E. Stanley, Architects-Engineers of Dallas, Texas.

Union Bank and Worthen, in cooperation with the Little Rock Housing Authority, are reserving 25 feet along their buildings on Capitol Avenue for beautification. The Housing Authority is planning to extend this walkway to Main Street. In the foreseeable future the walkway, featuring plantings, trees, benches, fountains, and sculpture, will be open to shoppers two blocks along Capitol Avenue.

These new structures symbolize the growth of Little Rock. The banks are spending millions of dollars on the new facilities because they believe in the future of Downtown Little Rock as a growing metropolitan city and want to be a part of this future. They are showing their pride in the Capitol City by reserving part of their space for landscaping and beautification, which is a part of the Little Rock face-lifting encouraged by the city's Urban Renewal Program. ■

Future ASHRAE Meetings:

2008 ASHRAE Winter Meeting
January 19-23
New York, NY

2008 ASHRAE Region VIII CRC
April 2008
Shreveport, LA

2008 ASHRAE Annual Meeting
June 21 - 25
Salt Lake City, UT

2009 ASHRAE Winter Meeting
January 24 - 28
Chicago, IL

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2007-2008 Chapter Officers

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<u>Treasurer</u>	Chris Ahne	501.661.0621	cahne@trane.com
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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: _____

For reservations to the Central Arkansas Chapter meeting send this form by
Tuesday, October 2nd to ***Steve Titus*** : sctitus@aristotle.net or via **FAX** at 501-375-4628

For reservations to the Northwest Arkansas Chapter meeting send this form by
Tuesday, October 2nd to ***Sam Browning*** : sbrowning@trane.com or via **FAX** at 479-361-5977.

ROUTING

MEMBER NAME (PLEASE PRINT)	CENTRAL October 3rd	NW ARK October 4th	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.

RSVP for the September meeting online at www.arkansasashrae.org

October Meeting Topics

Tech Session - A Brief Introduction to Displacement Ventilation - Ken Loudermilk

Program - Chilled Beams - Ken Loudermilk

Meeting Sponsor: Trane Arkansas

**ASHRAE LEARNING
INSTITUTE****FALL ONLINE COURSES****Take Two
Courses and
Save 15% OFF
Registration****Register Today!**

After September 3rd: \$150 ASHRAE Member / **\$225** Non-member
Humidity I and II

**Earn 3 PDHs/.3 CEUs or 3 AIA LUs****Complying with ANSI/ASHRAE/IESNA
Standard 90.1-2004 HVAC/Mechanical****Monday, October 22, 2007
1:00 p.m. to 4:00 p.m. EDT**

This program presents the mechanical requirements from ANSI/ASHRAE/IESNA Standard 90.1-2004. Standard 90.1-1999 is the benchmark for commercial building energy codes in the United States and in countries around the world. States are currently in the process of adopting elements of the 2004 Standard. The U.S. Department of Energy is reviewing it in preparation for adoption as the new benchmark for state energy codes. Changes to the 2004 mechanical section schedule to become part of the 2007 Standard will be addressed. Design professionals, code officials and building owners will benefit from this seminar, which presents the HVAC requirements and methods of compliance. Attendees will receive a discount toward the purchase of [ANSI/ASHRAE/IESNA Standard 90.1-2004 - Energy Standard for Buildings Except Low-Rise Residential Buildings](#) and [Standard 90.1-](#)

Frank Mills, Instructor**Natural Ventilation****Thursday, October 4, 2007
1:00 p.m. to 4:00 p.m. EDT**

This course will explain the various methods by which natural ventilation can be achieved including successful examples. The course will describe the calculation techniques to more sophisticated examples ranging from simple manual calculations, spread sheets through to more sophisticated techniques such as computational fluid dynamics CFD, salt bath modeling and physical (scale) model testing. Options for hybrid solutions will be described including recent innovative schemes which have used the natural ventilation strategy throughout the year with added cooling in summer. The course will follow the CIBSE Applications Manual AM10. Attendees will receive a discount toward the purchase of Natural Ventilation in Non-

Mack Wallace, JJ Deringer, Instructors

**Humidity Control I -
Basic Principles, Loads and Equipment*****Take both and save!*****Monday, October 15, 2007
1:00 p.m. to 4:00 p.m. EDT**

In commercial buildings, excess humidity and moisture problems have caused difficulties with mold, mildew and uncomfortable conditions for occupants. This course, based on ASHRAE's Humidity Control Design Guide for Commercial and Institutional Buildings, helps the designer achieve true control of humidity rather than just its moderation. The course covers how to remove moisture loads with equipment dedicated to that purpose alone, rather than relying on the occasional dehumidification effect of a building's cooling system. Attendees learn what equipment is used for this purpose, how it works and how to apply it quickly, economically and reliably. Attendees will receive a discount toward the purchase of the [Humidity Control Design Guide for Commercial and Institutional Buildings](#).

Lew Harriman, Instructor**Humidity Control II
Applications, Control Levels and
Mold Avoidance*****Take both and save!*****Wednesday, October 17, 2007
1:00 p.m. to 4:00 p.m. EDT**

For those who need to go beyond the basics of humidity control, this course provides the next step. Based on ASHRAE's best-selling Humidity Control Design Guide for Commercial and Institutional Buildings, the material includes an in-depth discussion of moisture load calculations and how humidity control can be added to HVAC designs for seven different types of commercial buildings. The course also covers the effects of different humidity levels on thermal comfort, corrosion, mold growth and airborne microorganisms-information which helps the owner and designer define the humidity control level that will be optimal for each application. If you need to understand the effects of humidity control as well as how to accomplish it, this course puts you on the fast track to such understanding. Attendees will receive a discount toward the purchase of the [Humidity Control Design](#)

Lew Harriman, Instructor**Complying with Requirements of ANSI/
ASHRAE/IESNA Standard 62.1-2004*****Due to the popularity of this course,
it will be offered twice.*****Wednesday, October 24, 2007 — 1:00 p.m. to 4:00 p.m. EDT
Monday, November 19, 2007— 1:00 p.m. to 4:00 p.m. EDT**

Standard 62.1-2004, Ventilation for Acceptable Indoor Air Quality, contains many changes from previous versions. This standard incorporates more than 15 addenda. The methodology for calculating ventilation rates for buildings is fundamentally changed for the first time in fifteen years. The standard also contains new requirements for building components and building systems. This seminar gives an overview of the requirements of the current standard with emphasis on the new requirements. Explanation of how to use an available spreadsheet will be included as a closing exercise. Attendees will receive a discount on [Standard 62.1-2004 – Ventilation for Acceptable Indoor Air Quality](#) and the [Standard 62.1-2004 User's Manual](#).

Hoy Bohanon, Instructor**Understanding and Designing
Dedicated Outdoor Air Systems (DOAS)****Wednesday, October 31, 2007
1:00 p.m. to 4:00 p.m. EDT**

This course presents some of the issues that point toward separate dedicated outdoor air systems (DOAS) and away from delivering the ventilation via single all-air variable air volume systems. The course also illustrates that once a shift in the design paradigm in favor of a separate DOAS has occurred, questions concerning the thermodynamic state of the delivered ventilation air arise. Some of the boundary conditions that impact the best state of the delivered ventilation air are addressed.

Stanley Mumma, Instructor



2007 Arkansas ASHRAE Fall Golf Tournament

Friday Oct. 26th "Shotgun Start" 12:00 pm
>Country Club of Arkansas<
Maumelle, Arkansas



Entry Fee: \$300 per team (4 players per team)
Includes cart, refreshments, and lunch at 11:00.

Format: 4-Man Scramble (First 24 teams)
Mulligans can be purchased for \$40/team. (2/player)
Ties will be broken by score and hole handicaps.
This format shall promote fair and competitive play.

Prizes: 1st, 2nd place teams. (2 flights)
Long Drive (in fairway) and Closest To Pin.
Special contests to be announced.



Fill out form and e-mail tony@airetechcorp.com or fax to Tony DeMarco.
Airetech Corporation 7631 Northshore Pl. North Little Rock, AR 72118
Phone: 280-0404 Fax: 280-9200

 **Player 1:** _____

 **Player 2:** _____

 **Player 3:** _____

Player 4: _____ **Total enclosed:\$** _____

Please make checks payable to "Arkansas ASHRAE" and send to
Arkansas ASHRAE P.O. Box 180 Little Rock, AR 72203



\$ Don't forget to sponsor a Hole \$

- ☐ I will sponsor a hole - \$100. Sign at a hole & recognized in ASHRAE newsletter
☐ Corporate Sponsorship- \$200. Banners are allowed for corporate sponsorship
& will be recognized in the ASHRAE newsletter as a Corporate Sponsor (There will
be an area near the scoreboard to recognize corporate sponsors (owner provided))
☐ I will donate \$_____ for prizes and awards
☐ I will donate Merchandise (golf balls, towels, etc.)

Workers, Hole & Corporate sponsors & Prize Contributors will be recognized in the Arkansas
ASHRAE Newsletter. All proceeds go to Arkansas ASHRAE.

Name: _____ . Company: _____

Signed: _____ . Date: _____

Phone: _____ . Fax _____ Email _____



Arkansas ASHRAE 2007 – 2008



Pre-Pay Lunch Plan

Cost: \$130 per person

Includes: 9 Monthly meetings with meals

Please complete the form below and mail or fax to the noted address/fax number. Bills will be sent in July.

****Get one meeting meal free and express check-in when you pre-pay****

Company: _____

Address: _____

Phone: _____ **Fax:** _____

Names: _____

Please mail form to:
Arkansas ASHRAE
Attn: Chris Ahne
P.O. Box 180
Little Rock, AR 72203

Or fax to:
Trane Company
Attn: Chris Ahne
Fax: 501-661-9109

2007 NEBB SIX-HOUR RECERTIFICATION & ASHRAE EDUCATIONAL SEMINAR

**FRIDAY – OCTOBER 12, 2007
7:30 A.M. – 4:00 P.M.
TRANE ARKANSAS TRAINING ROOM
1501 WESTPARK DRIVE— SUITE 9**

**7:30 – 8:00 A.M.
REGISTRATION & CONTINENTAL BREAKFAST**

**8:00 – 8:15 A.M.
WELCOME & INTRODUCTIONS
ARKANSAS NEBB PRESIDENT
CURT ENGLAND**

**8:15 – 9:15 A.M.
JOHN JACO,
JACO SALES.
BASIC HYDRONICS**

**9:15 – 10:15 A.M.
HAMID HABIBI
TME, INC.
ASHRAE 62**

**10:15–10:30 A.M.
BREAK**

**10:30 – 11:30 A.M.
TME, INC.
LEED 2.2**

**11:30 – 12:30 P.M.
LUNCH
(LUNCH WILL BE CATERED)**

**12:30 – 1:30 P.M.
TOM HANLON
TME, INC.
LEED IAQ CREDITS**

**1:30 – 3:30 P.M.
UNDERFLOOR AIR DISTRIBUTION**

**3:30 –
CHAPTER BUSINESS MEETING**

**CERTIFICATE OF ATTENDANCE WILL BE AVAILABLE FOR ONLY THOSE REGISTRANTS
THAT COMPLETE THE SIX (6) HOUR SEMINAR**

ARKANSAS NEBB
P. O. BOX 15964
LITTLE ROCK, AR 72231
501-753-2311 - 501-753-9649-FAX
EMAIL: MCAAICASA@SBCGLOBAL.NET

2007 ARKANSAS NEBB RECERTIFICATION
&
ASHRAE EDUCATIONAL SEMINAR
FRIDAY - OCTOBER 12, 2007
7:30 A.M. - 4:30 P.M.
TRANE ARKANSAS TRAINING ROOM
1501 WESTPARK DRIVE—SUITE 9
LITTLE ROCK, ARKANSAS

COMPLETE & RETURN TO THE ABOVE ADDRESS
FAX TO 501-753-9649-EMAIL TO MCAAICASA@SBCGLOBAL.NET

NAME _____

FIRM _____

ADDRESS _____

PHONE _____ FAX _____

EMAIL _____

TOTAL REGISTERED _____ @ \$75.00 PER PERSON

LIST OTHER REGISTRANTS ON SEPARATE SHEET)

REGISTRATION FEE \$75.00 PER PERSON

REGISTRATION FORM & FEES MUST BE RECEIVED BY
MONDAY - OCTOBER 8, 2007
(CONTINENTAL BREAKFAST & LUNCH INCLUDED)

IF OVERNIGHT ACCOMMODATIONS ARE NEEDED LET ME KNOW VIA
EMAIL: MCAAICASA@SBCGLOBAL.NET

SEATING IS LIMITED REGISTER EARLY ! ! ! !

NEBB QUALIFIED SUPERVISORS WILL MEET THE SIX (6) HOURS
REQUIRED ANNUALLY FOR FIRM RECERTIFICATION.

ENGINEERS WILL BE GIVEN SIX (6) PDH CREDITS FOR ATTENDING SEMINAR
ONLY IF 6 HOURS ARE COMPLETED.

CERTIFICATE AVAILABLE ONLY UPON COMPLETION OF SIX HOURS.