ASHRAE Winter Meeting Visits Chicago this Month

President’s Message
By: Bob Allwein

It is hard to believe that we are half way through the Chapter Year. Time to make those New Year’s resolutions. I hope attending ASHRAE Meetings is on the list of those that have been having trouble making it out to the meetings. Fortunately that list is smaller this year. We have been having record attendance and the Tech Sessions and the Programs have been excellent. Pam Dunlap and Jeff Ferguson, along with their committees have done a great job of coming up with high value programs. This month will be no exception. Look for the articles in this newsletter for more information.

The January meeting will be membership night. Bring a perspective member and their dinner will be free. Mike Gulizio will have plenty of applications available along with his great table top membership display. If you haven’t seen the display, check it out. Mike did a great job in preparing it. Just remember you are doing a favor for anyone you introduce to ASHRAE. The payback is the best around, and it compounds too.

The winter Society meeting will be held in Chicago this year on January 25th through the 29th. I have reservation forms for the Region VIII Dinner on Monday the 27th. If you plan to attend and need a form, e-mail me and I’ll send you a copy.

Many Chapters in Society have been moving towards reducing or eliminating paperwork at the chapter level. Most Chapters send their newsletter out electronically or provide a link to their web site. Bill Hanlon has worked very hard this year to try to get our membership information correct for the directory. We have had some problems getting the directory printed free this year, but AEP/PSO was gracious enough to do it for one more year. Next year we will probably go to a paperless directory and will depend on everyone to update their Society information, which will be used to create the directory and provide us with current e-mail addresses. You will hear more about this in the future, but I wanted everyone to start thinking about some necessary changes. If you don’t have e-mail, don’t panic. We will make sure everyone is informed but there could be a cost associated with requesting paper documents. Feel free to voice your opinion to the Board of Governors. We want your input. It’s your chapter.

ASHRAE provides the information the industry needs to keep current on technology advances. It also provides a forum where new ideas can be discussed and brought to fruition. Take advantage of this great opportunity. Come to the meeting on the 9th and bring a guest. See you there.

Bob Allwein can be reached at (918) 831-8383 or ballwein@ong.com

Bob Allwein, Chapter President

January’s Meeting is Membership Promotion Night.
December Tech Session Review
By: Jeff Ferguson

Carl Cressey, Regional Sales Manager for Halton Company presented a program entitled Thermal Displacement Ventilation (TDV). This method of air distribution uses fluid dynamics and temperature differences to displace the air in a space versus the standard methods of dilution and mixing. Air is introduced into the occupied regions of a room at low velocity and exhausted/returned high. This method has proven effective in a variety of occupancies including hotel and bank lobbies, schools, casinos, restaurants and bars. While most of the installations to-date have been in the UK, the concept is beginning to catch on in the US. Some discussion was devoted to pre-treatment of the air in hot, humid climates. Also, for colder climates or for occupancies with large amounts of glazing these TDV systems would act as supplementary heating systems.

Jeff Ferguson can be reached at (918) 877-6000 or jferguson@cyntergyllc.com

December Program Review
By: Pam Dunlap

As part of Refrigeration Promotion night, a chiller expert presented 'big' chiller basic technology and applications at the December meeting. Mr. Robert Feduik flew from Syracuse, New York, to share his experience with approximately 80 members. Mr. Feduik is the Marketing and Applications Manager for Carrier in the 'big' chiller arena.

Mr. Feduik placed his emphasis on screw chillers, generally available from 70 to 500 tons and centrifugal chillers, generally available 200 through 2000 tons. Per ARI: 60% of water cooled chillers installed are less than 500 tons. Reciprocating chillers are considered the 'small' chillers, using generally R-22 refrigerant, which begins phase-out in the year 2010. Centrifugal chillers are 'non-positive displacement' and are more sensitive than the screw chillers; if a centrifugal chiller is designed for 85 degree entering condenser water temperature, the chiller will not perform as well at higher entering water temperatures. Some of the chiller design evolutions include the chiller starter. The best start-up for a motor is a soft start and variable frequency drives provide the best soft start, unlike solid state starter which may have 300% to 400% full load amperage.

Mr. Feduik addressed first cost differences between like-construction chillers. Among items effecting first cost are the temperature of the condenser entering water, the temperature of the evaporator leaving water (use the highest temperature possible and still control humidity) and specified fouling factor. These items consequently affect the size of the impeller, which provides lift. A consideration to the designer is, if lift is 'higher,' unit efficiency may be lower, per ASHRAE 90.1. Besides affecting the cost of the chiller, correct impeller size is crucial to the operation of the unit.

Mr. Feduik provided useful information to designers and contractors; many members had questions after his formal presentation.

Pam Dunlap can be reached at (918) 581-4747 or pbdunlap@matrixae.com

Membership Promotion
By: Mike Gulizio

This month we received two applications for Membership Advancement. Wayne Smith and Michael Base have completed their forms and turned them in to Ray Farrell. We have also received confirmation of the election of Manh U Pham as a student member of our Society.

Mike Gulizio can be reached at (918) 455-1712 or certimike@aol.com

Preview of January Main Program
By: Pam Dunlap

January’s meeting is Membership Promotion night and, as a part of that, this year’s panel discussion should be of interest to professionals with varied backgrounds. The topic of “Proprietary Specifications” should be of interest to many. The panel, composed of Andy Enlow, and ASHRAE members...
Wes Smith, Tom Owens, and John Hilger hope to provide a brief discussion of the advantages and disadvantages of proprietary equipment listed in specifications. Mr. Enlow is originally from Texas, worked as a general contractor, came to Tulsa to study law and stayed. He spends most of his time on litigation cases, particularly related to the construction industry, and collection law. Wes Smith is a licensed engineer and president of Warren Smith Consulting Engineers. Tom Owens is a licensed engineer and president of McIntosh Mechanical Services. John Hilger is a sales representative with BDH and organizer of this month’s meeting.

We don’t anticipate conclusions to be drawn, nor battles fought, just views brought to the table. There will be time for questions and further discussions after the main presentation. We expect the topic to be of interest to others in our profession so invite your favorite general contractor, subcontractor, architect or building owner to join us for the evening.

Pam Dunlap can be reached at (918) 581-4747 or pbdunlap@matrixae.com

Preview of January Technical Session
By: Jeff Ferguson

Most experts agree that building commissioning is a good idea, but how do we answer the skeptical owner who asks, “What are the benefits?” An ASHRAE video presentation will be shown answering this question. Other points discussed will be the impact Building Commissioning has on the owning and operating costs of a building. This video is part of a four (4) part series offered by the ASHRAE Audio Visual Loan Program and time constraints will not allow all four (4) videos to be shown. However, for those interested in pursuing the topic further, arrangements will be made to offer full viewing of the entire series.

Jeff Ferguson can be reached at (918) 877-6000 or jferguson@cyntergyllc.com

History
By: Ron Spencer

In the fall of 1963, three graduates of the Oklahoma University College of Engineering began a pilgrimage to the north land in search of a “PHD” in HVAC. The first two, Harold Kallenberger (BS Mechanical Engineering) and Tom Owens (BS Aeronautical Engineering), in addition to being more intelligent than the third, had both grown up working with their fathers on air conditioning equipment. The third, Ron Spencer (BS Chemical Engineering) thought plenum was something coughed up from bronchitis. With their previous experience, they gained much more from the class than Spencer, who just tried to keep up.

Being Okies, none were prepared for the -25 to -30 degree winters in La Crosse, Wisconsin and had to make substantial adjustments. Hal and Tom were single and had the time, but not the money to examine the mile long stretch of bars on Fourth Street. Spencer had neither the time nor the money (he brought along his wife and four month old son). The Trane company training class curriculum (one of the largest ever, had over one hundred students from the US and abroad) left little time for extra curricula activities. Hal’s VW had an air cooled engine and did not risk winter freeze up, but did NOT like to start on those cold winter mornings.

The training class was housed in an old building next to the railroad tracks and some one hundred plus engineers were each assigned a drafting table and small book case. The class was conducted by Milt Paulson and C.L. Ringquest. C.L. was a large man standing over six feet four inches and weighed over two hundred seventy five pounds, and was a former lineman for the Purdue Boiler makers, His mind was as large as his body, holding over one hundred patents for the Trane company.

Forrest Shoemaker Sr. would often regale me with stories of how C.L. and Maurice Wilson of Carrier Corporation would travel by train to Tulsa to work with Mr. Shoemaker on a system design for a local project. In those days there were few consulting engineers and the contractor would design the projects. The three would gather in the Mayo hotel and spend days working out the details of the designs. Mr. Wilson worked on the refrigeration system and C. L worked out the air side design.

At the end of the training period, each engineer was assigned to a sales office. Each sales engineer had requested a particular office. Hal and Tom requested Tulsa, and Spencer requested Oklahoma City. I think management must have been old military men, for none were assigned the requested office. Hal went to Oklahoma City, Tom to New Orleans and Spencer to Dallas. Tom arrived at a well es-
ASHRAE Winter Meeting
By: Cary Pestel

ASHRAE’s winter meeting has been scheduled for later this month. More than 50,000 people are coming to Chicago to attend the ASHRAE Winter Meeting and/or AHR Expo. These attendees will have the chance to learn, network and take part in important Society business. Don’t miss out on the premier events of the HVAC&R Industry. Please make plans to join us in Chicago, IL January 25th through the 29th.

Cary Pestel can be reached at (918) 664-9756 or cpestel@2boonesales.com

December Chapter Minutes
By: Steve Johnson

A chapter meeting was held on December 12, 2002 at Tulsa Marriott, Southern Hills, Tulsa, Oklahoma.

Welcome: Daniel Lake read the names of our visitors and welcomed them to our meeting.

Technical Session: Carl Cressy, Halton Company

Invocation: Jerry Mathews led the Chapter in the Pledge of Allegiance. He then gave the Invocation.

Refrigeration: Brent Rouse thanked everyone for attendance on Refrigeration Night. He alerted members to upcoming plant tour at National Steak and Poultry’s ammonia refrigeration system. Tour will be held in mid January. Watch newsletter and emails for exact date and time.

Membership: Mike Gulizio presented Paul Roberts (1st place), Steve Johnson (2nd place) and Pam Dunlap (3rd place) with Membership Promotion Awards and checks for chapter year 2001-2002. Bob Alwein introduced Wayne Yeagar and Jack Owens as new members.

Announcements: Bob Alwein announced that AEP declined to print directory this year. He issued request to membership for donors or sponsors that might provide printing services or make contribution to defray cost of printing.

Nominating Committee: Bob Alwein introduced nominating committee candidates, Paul Roberts, Keith Browne, Bill Hanson, Cary Pestel and Tom Owens. Floor was opened for other nominations and none were submitted. Mike Beda made motion and Ron Spencer seconded that committee be approved as nominated. Motion carried without further discussion or objection.

Program: Pam Dunlap introduced Robert Feduik, Carrier Corporation as program speaker. Mr. Feduik is a graduate of Penn State University and spoke on the subject of centrifugal and screw chillers. Chilled water plants offer many advantages over DX cooling systems in facilities where loads exceed 150 tons. He explained the differences between centrifugal and screw chillers and pointed out the technology transfer that occurs between industries, i.e., recent advancements in screw chiller technology is directly related to research and development in airline industry. Centrifugals are custom built to specific design conditions of the installation location. Screw and reciprocating compressors can be more generic and suit any environment. Screw chillers are built in 75 to 500 ton range. Centrifugal chillers are built in 200 to 2000+ ranges. Reciprocating chillers are built in 15 to
The Board of Governors meeting was held on December 19, 2002 in the offices of Powers of Oklahoma. President Bob Allwein called the meeting to order at 4:35 p.m.

Minutes: Meeting minutes were emailed to the Board of Governors for review prior to this meeting. Corrections were handed to Steve Johnson to edit. Joel Karstetter made motion and Paul Roberts seconded motion to approve as corrected.

Treasurer: Treasurer’s report was emailed to the Board of Governors for review prior to this meeting. Report was approved and filed for audit.

Newsletter: Cary Pestel requested all articles to be submitted by Friday 12-20-02 for the next newsletter.

Research Promotion: Nancy Mack is passing out invoices to committee for distribution. It was noted that there have been some errors in past contribution amounts as reported by Society on invoices. Full Circle was achieved and acknowledged by Society. Thanks to all the officers for their contributions. Nancy suggested to Bob Alwein that he and /or Nancy attend MCAA meeting, January 14th to formally request Golden Circle Contribution of $ 10,000.00.

Main Programs: Jack Tumlity will coordinate with Society President for activities he prefers along with his February 2003 trip. Jeff Ferguson reported on plans for video options for upcoming technical session. Jeff and Dave Lam to investigate TEGA, PAOE point potential for that activity.

Student Activities: No report was made.

Refrigeration: No report was made.

TEGA: Bob Alwein asked Dave Lam to investigate topics for a seminar to be held at nominal cost. Dave to set up tour at Sun Refinery. Dave will add some members to committee and update MBO to increase PAOE points potential.

Directory: Bill Hanlon reported that AEP has agreed to print newsletter after January 9, 2003 in order to pass out at January Chapter meeting. AEP cost estimate for printing was $1,200.00 for 250 copies. Bill plans to build prototype CD from this year’s data in order to eliminate the paper directory for next year. Board held discussion on methods to update data in database.

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Historian: Ron Spencer gave seminar in Arkansas last week that should be credit to TEGA. Plans an article for the upcoming newsletter.

Attendance: Jim Waldroop reported to Bob that “no response” was at 6% this month. Up to 165 responding emails currently. Continuing to reduce number of members called each month.

Reception: No report was made.

Publicity: Mike Base has posted our meetings in Tulsa World and on-line. Suggestion was made to ask MCAA lobbyist to represent us in legislative matters and then report some of those issues in the Tulsa World.

Website: Paul Mannas reported that newsletter link changes monthly after current newsletter is posted. Paul will send that link to Jim Waldroop to send out with meeting notices.

Honors & Awards: No report was made.

CRC Action: Keith Browne needs PAOE updates from committee chairs. No updates have been made since end of October.

Nominating Comm.: Will vote on nominees at next Chapter meeting.

Old Business: Bob wants MBO updates to be sent in soon.

New Business: Bob encouraged all grassroots chairs to communicate with their RVC’s frequently. Bob Alwein thanked Bill Hanlon for baking the chocolate chip cookies for BOG meeting.

Merry Christmas and Happy New Year to all!!

The meeting was adjourned at 5:35 P.M.

Steve Johnson can be reached at (918) 250-5590 or steve.h.johnson@encompass.com
Chapter Volunteers

Officers: Voice Fax
President Bob Allwein 831-8383 831-8320
President-Elect Cary Pestel 664-9756 664-1675
Secretary Steve Johnson 250-5590 459-0997
Treasurer Joel Karstetter 665-3974 665-4219

Board of Governors
Keith Browne 836-0271 836-0275
Jack Tumilty 494-3947 494-3759
Paul Roberts 622-4822 663-8543
Ron Huntley 599-2285 599-3233
Ron Spencer 622-8191 627-7004

Committee Chairs
CRC Delegate Keith Browne 836-0271 836-0275
CRC Alternate Bill Hanlon 622-1500 627-7004
Attendance Jim Waldrop 622-2422 622-2429
Directory Bill Hanlon 622-1500 627-7004
Student Activities Chad Marazas 250-5522 250-5419
Historian Ron Spencer 622-8191 627-7004
Invocations Keith Browne 836-0271 836-0275
Membership Mike Gulizio 455-1712 451-1596
Programs (Main) Pam Dunlap 581-4747 587-8008
Programs (Tech) Jeff Ferguson 877-6000 877-4000
Publicity Mike Base 836-0271 836-0275
Reception Dan Lake 664-4800 662-0232
Refrigeration Brent Rouse 665-3974 665-4219
Research Nancy Mack 491-6600 491-6985
Honors & Awards Gene L. Redford 622-0600 622-0618
Newsletter Cary Pestel 664-9756 664-1675
Webmaster Paul Mannas 664-0312 665-3351
TEGA Dave Lam 258-4059 258-8397
Special Events Jerry Beardslee 587-4747 587-8008

(Note: All phone numbers listed above are in the 918 area code)

Calendar of Events

Important Dates Meeting Location
June 20, 2002.............. Board of Governors ..............Powers of Oklahoma
July 18, 2002.............. Board of Governors ..............Powers of Oklahoma
August 15, 2002............ Board of Governors ..............Powers of Oklahoma
September 12, 2002........ Chapter/Golf Tourney .........Clary Fields Golf Club
September 19, 2002........ Board of Governors ..............Powers of Oklahoma
October 17, 2002............ Chapter ..................................Marriott Southern Hills
October 17, 2002............ Board of Governors ..............Marriott Southern Hills
November 14, 2002........ Chapter ..................................Marriott Southern Hills
November 21, 2002........ Board of Governors ..............Powers of Oklahoma
December 12, 2002........ Chapter ..................................Marriott Southern Hills
December 19, 2002........ Board of Governors ..............Powers of Oklahoma
January 9, 2003............ Chapter ..................................Marriott Southern Hills
January 16, 2003............ Board of Governors ..............Powers of Oklahoma
January 25-29, 2003....... Winter Meeting .................Chicago, IL
February 13, 2003........... Chapter ..................................Marriott Southern Hills
February 20, 2003........... Board of Governors ..............Powers of Oklahoma
March 13, 2003............. Chapter ..................................Marriott Southern Hills
March 20, 2003............. Board of Governors ..............Powers of Oklahoma
April 10, 2003.............. Chapter ..................................Plant Tour
April 17, 2003.............. Board of Governors ..............Powers of Oklahoma
April 24-26, 2003........... CRC ......................................Ft. Worth, TX
May 8, 2003................. Chapter ..................................Marriott Southern Hills
May 15, 2003............... Board of Governors ..............Powers of Oklahoma
June 28-July 2, 2003....... Annual Meeting .................Kansas City, MO

Visit our website at www.ashrae-neok.org

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