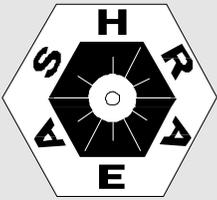


The Oil Capital Air



NEWSLETTER of the NORTHEASTERN OKLAHOMA CHAPTER of
the AMERICAN SOCIETY of HEATING, REFRIGERATING
and AIR-CONDITIONING ENGINEERS, INC.



VOLUME XLIII

TULSA, OKLAHOMA NOVEMBER 2001

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NOVEMBER CHAPTER MEETING: **November 8, 2001 (THURSDAY)**

Tulsa Marriott Southern Hills
71st & Lewis (On 71st two blocks west
of Lewis)
5:30 Tech Session
6:00 Hospitality
6:30 Dinner and Business
7:00 Program
Cost: \$20.00

WATCH FOR OUR NEW **MEMBER:**

Herb Streater
Mechanical Contractors
Association

MAKE HIM FEEL WELCOME!



PRESIDENT'S MESSAGE

By Bill Hanlon

The October chapter meeting was special in that we were honored to have two leaders in ASHRAE as our guests. Region VIII DRC Bill Harrison made his last official visit to our chapter. The continued growth of our chapter and Region VIII over the past two years has been due in large part to the leadership he has displayed. I look forward to working with Mr. Harrison during his last year as DRC. Our program speaker was Society President William Coad. He spoke briefly on the role and direction of ASHRAE and the engineering community in maintaining and furthering the quality of life throughout the world. He asked us all to **Accept The Challenge** by advancing technology through research and education. On behalf of the chapter, I would like to thank both of these gentlemen for their dedication and leadership.

As members of ASHRAE we have the opportunity to learn from other professionals through meetings, seminars and publications. We also have a responsibility to act as teachers. The November 8th meeting has as one of its themes "Student Night". This is an opportunity for us to show some of our student chapter members that they are not alone in the challenges that lie ahead, and help them

become the engineers of tomorrow.

The November meeting will also be "Research Promotion Night", when those members and companies who made significant contributions to ASHRAE research will be recognized. It is their generosity that helps advance the technology needed to improve the quality of life for all of us. When the research committee calls on you to contribute to ASHRAE research, you can give knowing that you are helping to make a difference. I ask that each member **Accept The Challenge** with a generous contribution to ASHRAE research.

I look forward to seeing you on November 8th at the Marriott.

Bill Hanlon can be reached at 622-1500





Jack Page

NOVEMBER MEETING

By Kelly Coday, Program Committee Chair

This month we will have the honor of hearing Mr. Jack Page from the City of Tulsa speak to us concerning the International Existing Building Code. Let's all mark our calendars for November 8th, as this is sure to be another informative session.

Jack L. Page, P.E. is the Deputy Director of Development Services in the Public Works Department for the City of Tulsa. He has been an employee with the City of Tulsa since 1978. His current responsibilities include overseeing the review and approval of development activities for the City of Tulsa. Such activities include the building permit process, zoning, signage, infrastructure connection control, inspections and PFPI projects, Neighborhood Inspections and parking investigations. Mr. Page also acts as the floodplain administrator and the emergency response coordinator for the Public Works Department.

Mr. Page is a registered professional engineer, with a bachelor's degree in civil engineering from Kansas State University and a master's from Oklahoma State University. In 1992, Mr. Page received the Outstanding Public Service Award from FEMA and was named Floodplain Manager of the Year in 1993 by the Oklahoma Floodplain Management Association.

Kelly Coday can be reached at 665-6600 or kducks2001@yahoo

NOVEMBER TECH SESSION

By Pam Dunlap, Tech Session Chair

Terry Coleman, Tulsa Air Specialists, will present information relative to testing and balancing air and water systems. We meet at 5:30 for 30 minutes, prior to the social time, so come early. Terry will be using a blackboard for his presentation so bring your sharpened pencils and pads!

Pam Dunlap can be reached at 587-4747 or pbdunlap@matrixae.com



Society President Bill Coad

OCTOBER PROGRAM REVIEW

By Bob Allwein, Program Co-Chair

Our program speaker was Society President William J. Coad. Bill gave a very informative and challenging presentation on "Improved Indoor Air Quality with VAV Systems". He started out by reviewing the four basic kinds of air distribution systems and pointing out the shortcomings of each. The last system covered was variable air volume (VAV). VAV was introduced in the seventies as an engineering solution to reduce energy consumption in commercial buildings. Contrary to what most people think VAV was not a new concept. It had been tried in the thirties but given up because it didn't work. In the eighties more and more complicated schemes were devised to overcome the problems associated with VAV. Air volume reduction saved energy but it also created many new problems such as poor mixing between supply air and room air and what was commonly referred to as dumping. The most serious problem was providing sufficient ventilation air quantities while supply air was being reduced. The failure to do this was resulting in "Sick Buildings". Four rules for humidity control were given. 1)

Define the building envelope, 2) Provide an adequate vapor barrier, 3) Define the point where outside air enters the building and 4) No air should be introduced with a higher moisture content than what is acceptable in the occupied space. Bill's solution is to separate the outside air system from the room air air-handling equipment and use equipment specifically selected and built for preconditioning out-side air. Bill believes this type of system can be installed within budget and will solve the "Sick Building" problem associated with VAV systems.

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



Tech Session Speaker John Hilger of BDH, Inc.

OCTOBER TECH SESSION REVIEW

By Bob Allwein, Program Co-Chair

For the Technical Session John Hilger of BDH, Inc. gave an informative presentation on thermostatic mixing valve sizing. He demonstrated a computer program that could be used to determine the proper size valve needed for a variety of applications. He recommended installing the mixing valve at the hot water source rather than out in the building and cautioned the audience to never size a mixing valve based on the size of the water heater outlet.

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



STUDENT ACTIVITIES

By Chad Marazas, Committee Chair

The student chapters have begun their monthly meetings and all seems to be going well. The OSU Okmulgee Chapter visited the RAE Corp production facility last month. This month's meeting is student night so plan on seeing some new faces at the meeting.

We are looking for sponsors to purchase student booster tickets, so the students can participate in our monthly meetings.

Chad Marazas can be reached at (918) 250-5522 or marazas69@aol.com

DID YOU KNOW ?

By Mary Bowers, Editor

Ron Huntley recently retired from Public Service Company of Oklahoma after 15 years to start a new career at Tulsa Supply as Commercial Sales and Leasing Manager.

Ron joined ASHRAE in 1987 and has been very active locally as well as at the regional and society level.

On the local level he has held the positions of Energy & Technical Affairs Chair, Treasurer, Secretary, President-elect, and was President of our chapter in 1993, winning the Golden Gavel Award.

On the regional and society level, he was Assistant Regional Chair in 1994, and was Regional Vice Chairman of TEGA for three years, from 1996 to 1999.

Ron was also project manager for "Technology Transfer" at society level.

This year Ron has agreed to be Refrigeration Chair of our chapter, replacing Darren Stephens.

Editor's Note: "Did You Know" will be a new feature of our newsletter this year, highlighting our own members. Do you know something we should know? Please contact me by phone, fax or email.

Mary Bowers can be reached at 665-6600 or airetulsa@aol.com



RESEARCH PROMOTION

By David Lam, Research Chair

Our scheduled Research Promotion Night has been postponed one month. The awards from ASHRAE headquarters did not arrive as ordered so I have been working with them to get things straightened out. Hopefully we will have everything in order well before the next chapter meeting. Everyone who knows they will be receiving a Research award, please plan on attending the November chapter meeting so you can be properly recognized.

This month's research project is from the University of Nebraska—it is project number 1182: Metering residential hot water by end use (Development of Standard Protocol). The objective of this project is to develop a standard protocol for monitoring residential hot water use and field test it by collecting consumption data. This monitoring data must be high enough resolution to be able to identify hot water events by end use. Widespread application of this protocol is intended for future work.

David Lam can be reached at (918) 258-4059

MEMBERSHIP PROMOTION

By Nancy Clowdus, Membership Chair

Thanks to everyone who participated in membership promotion night last month. We honored the winners of last year's membership drive. Congratulations to first place winner, Paul Roberts; second place winner, Mike Beda; and third place winner, Keith Browne. These three gentlemen continue to show their support of ASHRAE and their commitment to making the NEOK chapter great by their outstanding service. Many members participated in the drive and I want to thank them for contributing: Kelly Coday, Steve Johnson, Jack Kurle, Will Priddy, and Gene Redford.

Have you received your renewal form from Society? Keep an eye on the mail and don't let your membership lapse. Please remember to pay your society AND chapter dues this year.

Nancy Clowdus can also be reached at (918) 491-6600 or njclowdus@aol.com

TEGA

By Steve Uerling, Chair

Anyone who has worked on an innovative HVAC&R design that deserves recognition for its energy efficiency, thermal comfort, or indoor air quality should consider submitting an entry for an ASHRAE Technology Award. Technology Awards are the articles you see published in *ASHRAE Journal* that generally gives a case study of a building and how the designer addressed its unique challenges. These awards bring prestige to the winners and their companies, as well as to the local chapter.

If you would like to submit an entry for a Technology Award, please contact me at 836-0271 or at the e-mail below.

Steve Uerling can be reached at lbce@swbell.net

OCTOBER BOG MINUTES

By Cary Pestel, Secretary



The Board of Governors meeting was held on October 11, 2001 at the Tulsa Marriott, Southern Hills, with twenty-one in attendance. President Bill Hanlon called the meeting to order at 4:10 p.m.

Minutes: Upon review by the Board, a motion was made and seconded for approval of the September 20, 2001 BOG meeting minutes.

Treasurer: Steve Johnson presented the Treasurer's Report for review, and it was submitted for audit.

DRC/President's Address: Bill Harrison reviewed the topics he intended to discuss in the General Meeting and asked for suggestions from the BOG to improve or re-direct Society. Mr. Harrison introduced Society President Bill Coad, and announced his recent travels for ASHRAE. The Mexico chapter in Monterrey is still growing. The Monterrey Chapter helped coordinate a trade show where over 300 exhibitors were present.

Bill Coad is working on a list of what he termed problems with the existing ASHRAE organization. He

is planning on improving the ASHRAE handbook in an effort to make the articles less technical and more up to date. Each chapter of the handbook will be reviewed and re-written so that the handbook can become more of a working tool and less of a technical textbook.

He also intends to lead a forum dedicated to updating ASHRAE Standards 90 and 62. There have been some complaints addressing the difficulty of meeting these Standards. The plan is to take these two Standards and break them up into smaller more understandable Standards.

President Coad also wants to get back to an old method of distributing transactions. Long ago, every ASHRAE member received a book of transactions with his or her membership. Over the years this policy was dropped and members were forced to purchase the transactions separately. President Coad would like to work toward providing the transactions as a part of our normal membership. Cost of production and printing is a large barrier so this will most likely come in an electronic format. They are also looking for ways to raise additional money for ASHRAE to offset the costs associated with this venture.

President Coad asked for comments on how to improve the ASHRAE organization. Keith Browne asked that ASHRAE take more of a leadership role in the ozone depletion and global warming debate. We, as an organization, need to review the facts that are before us and make a stand on whether or not billions of dollars need to be spent, when it may not be justified. Ron Spencer supported Keith and discussed the methods of monitoring CFC losses, which involved reporting of CFC production rather than true losses. The national agreements we are making with third world countries may not be the best thing for the United States. President Coad agreed that issues such as this need to be discussed whether or not they are politically correct to discuss or not.

Another issue is second hand smoke and if it causes cancer. President Coad's plan is to get these issues out in the public forum so they can be discussed.

Newsletter: Mary Bowers reported that next month, for the first time, she is starting a new feature called "Did you Know?". The plan is to highlight an individual member each and every month. Deadline on newsletter articles for the next newsletter will be the middle of next week.

Research Promotion: Dave Lam reported that the research promotion night has been delayed to next month. He has \$4,950.00 collected to date and expects to collect a few more dollars from the golf tournament in the next few weeks.

Membership: Nancy Clowdus reported that we have six new members and each has paid Society and Local dues.

Main Programs: Bill Hanlon reported for Kelly Coday. Cathy Keating is tentatively set for our February meeting. We will not receive an actual confirmation until January 2002.

Programs – Tech Session: Pam Dunlap has confirmed next months speaker and is still working on some of the other meetings but is not worried about filling the open spots.

Student Activities: Chad Marazas has been in contact with his RVC and has been given a new report to fill out monthly. OSU-Okmulgee is planning a factory tour at RAE Corporation on October 17, 2001.

Refrigeration: Ron Huntley has agreed to take over the responsibility of Refrigeration Chair. He has two plant tours planned. They will both be joint tours with the Oklahoma City Chapter.

TEGA: Brochures will be on the tables tonight announcing the October 30, 2001 Satellite broadcast. Bill Hanlon will also announce the broadcast during the meeting.

Directory: Nancy Clowdus and Pam Dunlap are working on obtaining an updated membership roster.

Historian: Ron Spencer has set a goal of doing a re-call on one chapter member every month.

Attendance: Jim Waldrop is working on methods of improving communication with our members. Our "no-response" rate this month was a low 15%.

Website: Paul Mannus announced that the website is up and running and all of the links have been tested. The address has not changed and can be reached by going to www.ashrae-neok.org

Reception: John Hilger is testing a new check-in procedure tonight. Booster ticket holders will have the ability to skip the check in line, get their badges, and go on inside. He has some help at the front desk since he is conducting the Technical Session tonight.

Old Business: Bill Hanlon reported for Jerry Beardslee and announced that he has signed an agreement with Clary Fields for next year's golf tournament. The tournament date has been set for September 12, 2002.



Region VIII DRC Bill Harrison



NEOK President Bill Hanson

OCTOBER MEETING



Bill Coad and Bill Harrison addressing NEOK BOG



Membership Chair Nancy Clowdus presenting Keith Browne with 3rd place prize for Membership Contest for 2000/2001 year.



Membership Chair Nancy Clowdus presenting Paul Roberts with 1st place prize for Membership Contest for 2000/2001 year.



Good attendance at Tech Session



Jay Hambrick and our newest member Herb Streater



Membership Chair Nancy Clowdus presenting Mike Beda with 2nd place prize for Membership Contest for 2000/2001 year.



Paul Roberts showing off the new membership plaque.