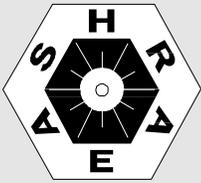


The Oil Capital Air



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



VOLUME XLIII

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No. 6

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FEBRUARY CHAPTER MEETING: February 14, 2002 (THURSDAY) SPOUSES' NIGHT – ENGINEER RECOGNITION NIGHT

Tulsa Marriott Southern Hills
71st & Lewis (On 71st west of Lewis)
5:30 Hospitality
(no Tech Session)
6:30 Dinner and Business
7:00 Program
Cost: \$20.00



PRESIDENT'S MESSAGE

By Bill Hanlon

We had an excellent turnout for the January chapter meeting, including a large number of guests and prospective new members. The panel discussion on legionella was well received. I would like to thank Mike Gulizio, Keith Browne and Jon Liechti, all members of our chapter, for sharing their time and expertise with the rest of us. One of the main reasons our chapter is among the best in ASHRAE is that we have many knowledgeable people willing to **Accept the Challenge** to help the chapter grow.

The February meeting will be special for a number of reasons. Not only is it Spouse's Night, but it also happens to land on the 14th, St. Valentine's Day. Along with the obligatory candy and flowers, you can treat your "sweetie" to a romantic evening at ASHRAE. Anyone wishing to bring a friend or associate is more than welcome. Social Hour begins at 5:30pm and dinner is at 6:30.

Oklahoma's First Lady, Cathy Keating was to be our program speaker for February. Politics being what it is, we were dropped from her schedule after the election. Thanks to some brainstorming at the Board of Governors meeting, Nancy Clowdus has arranged a very special program by a member of the Oklahoma Historical Society. It should be an entertaining and informative evening. (See *Nancy's article on page two.*)

This month is also Consulting Engineers Recognition Night. This is our chance to show these members that we appreciate their contributions as leaders in the HVAC&R industry.

Although it seems like a long way off, it is not too early to start making plans to attend this year's CRC April 25th-27th. Since Little Rock is the host chapter the commute will be easier than in most years. The Arkansas Chapter CRC committee has been working hard to put together a first class conference.

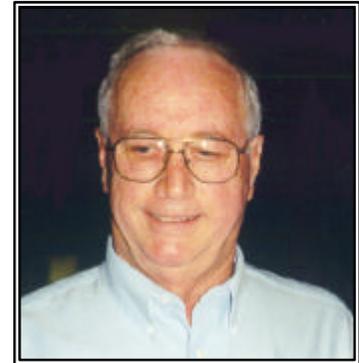
My lovely young bride and I look forward to visiting with you and your guests on Valentine's Day. See you at the Marriott.

Bill Hanlon can be reached at 622-1500

Happy Valentine's Day

DID YOU KNOW ?

The following story was sent "anonymously" to the newsletter editor.



Ron Spencer

A HISTORY OF THE HISTORIAN

Cold blew the wind on that February 20th, a foreboding sign of what was to come. It was 1938 in Konawa, Oklahoma. The nation was emerging from the Great Depression, the dust bowl was ending, and the world was on the verge of entering the World War II. But on that day in 1938 a gust that has never stopped blowing entered the world. His name was Ron Spencer. As he will tell you, ask him the time and he'll tell you how to build a watch. Over his nearly 64 years he has amassed a fortune in knowledge that few of us in the air conditioning industry will ever know.

By degree he became a chemical engineer, by profession a recognized expert in the field of refrigeration. What better place for a man of his stature to start his career than working for a mortician in the small town of Konawa. But this lasted only a while. As he tells it, when working for a small town mortician you're either looking for work or burying your friends. After attending East Central College in Ada, Oklahoma, with several chemistry courses under his belt, Ron moved on to work for an Atomic Energy Commission subcontractor in Grants, New Mexico in 1957. (Yes, he got a security

clearance!) But atomic bombs were not his calling, so he entered Oklahoma University in 1959 where he received his Chemical Engineering degree in 1963.

Ron signed up with the Trane Company after graduation and (if you can believe this) requested an assignment in Oklahoma City, but instead was assigned to the Dallas office. After two years of Texas he decided Oklahoma was still home and requested a transfer. Opportunity knocked in Tulsa. From rookie sales engineer in 1963 to part owner of the Tulsa office in 1981, he developed into the most knowledgeable refrigeration expert that the Northeastern Oklahoma Chapter of ASHRAE, and likely Region VIII, has ever known. Never at a loss for words, Ron could not only answer any refrigeration question one had, he could diagram it on a Mollier Chart, give you the theory behind it, and design it for you.

He has served the NEOK chapter in every capacity, including president in 1978, and has served Region VIII as RVC in Refrigeration. One of his many accomplishments is receiving the Region VIII Regional Award of Merit. Along the way he raised three children and put them through college while starting his own business in 1986. He resurrected what had become a defunct York presence in Tulsa as he started Optimum Systems and Service (OSS). While making great personal sacrifice to keep this new fledging business going, he never missed a payroll for his employees. Ron eventually sold OSS to Airetech Corporation and is now the branch manager in Tulsa.

But the real story behind Ron Spencer is his unflinching loyalty to what is right. He is a vanishing breed. As he will tell you, there is no gray; everything is black and white. Ron would rather lose a sale than to sell a job that has a misapplication of equipment or technology. And he has the knack to foresee this before it is built. Instead, he will help solve a problem on a job, which he originally declined to bid, because it is the right thing to do. Ron is often called in as a problem solver on projects because there is no one else with his knowledge of refrigeration in the area. I can remember going to Ron for help on a problem project and he proceeded to diagram a compressor map on a marker board, when all I really wanted to know was how to solve my refrigeration piping problem. But I

learned something I had not known before.

There are many testimonies to Ron's love of passing his knowledge on to others. He worked with a young man who was starting his own residential refrigeration business and guided him through the theory that one has to know to make it all work. He has spoken at numerous seminars and taught training classes for newcomers and old-timers in the business. Even Arkansas recognized his ability when he was called to speak on fan laws at an NEBB training class.

Within the NEOK chapter, Ron has faithfully contributed at board meetings and chapter meetings throughout the years. His knowledge is so extensive; he can speak on any HVAC&R subject. I recall one chapter meeting when the Tech Session speaker failed to show up, and Ron was asked to fill in on a moment's notice. He immediately agreed and spoke for 45 minutes straight from the cuff. No one had any idea this was completely ad lib.

As deep as Ron's knowledge runs, he often claims to have Alzheimer's disease. But don't let him fool you; he never forgets a debt. He relates the story of a friend who borrowed five dollars in high school and never paid it back. Now, 45 years later, after his friend is dead, Ron is still trying to figure out how to get his five dollars back, plus interest. Ron, that's called selective Alzheimer's.

For the past several years Ron has served the NEOK chapter as historian. There could not be a more fitting person for the job. Ron is a walking history. I've heard that he was present when ice was first used to refrigerate food. (Of course the food was chicken.) Ron, for all the years of service and dedication to the NEOK chapter members, a heart felt thanks from all of us.

Tune in next month to see if the author of the above article "fesses-up".



FEBRUARY MEETING

By Nancy Clowdus, Membership Chair

Spouse's night is sure to please. Our featured speaker will be Mr. Mike Adkins. He is a "history buff", although calling him that is like calling Michael Jordan a "decent" basketball player.

Mike lives and breathes history. Before retiring and going to work for the Oklahoma Historical Society, he taught American History and Sociology in the Moore Public School system for 20+ years. He was honored as Oklahoma's Teacher of the Year in 1989.

Mr. Adkins specializes in "living history" and "reenactment." This involves dressing in authentic costume and acting out the lives of characters from history. Mr. Adkins incorporated this into his teaching and did it as a hobby in many movies and documentaries before going into it full time. He has appeared in reenactment scenes in the hit movies "Geronimo" and "Far and Away," and the TV miniseries "North and South."

For our program, he will take us through the life of a civil war soldier and field questions from the audience. Mr. Adkins taught yours truly in high school and I can say that we are all in for a big treat this month.

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

JANUARY TECH SESSION REVIEW

By Pam Dunlap, Tech Session Chair



Bill Leizear of LAKOS

The technical session began an evening of eye-opening, meaningful information that amazed many members. Bill Leizear with LAKOS shared a Power Point presentation of bacterial growth in cooling towers. He began with a brief discussion of what may happen when cooling tower mismanagement occurs. The regular program for the evening would be going into more depth so he continued by explaining the methods of controlling bacterial growth. Filtration of make-up water, chemical water treatment, basin sweeping, and system cleaning are all part of a complete program to minimize solids. He stressed filtration methods as the first defense against solids accumulation. Thirty-two members and guests attended the evening's technical session.

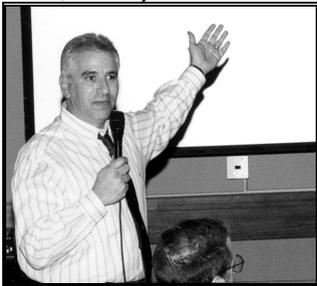


Thirty-two members and guests attended the evening's technical session.

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

JANUARY PROGRAM REVIEW

By Cary Pestel, Secretary



Mike Gulizio giving a history of Legionnaire's Disease.



Jon Liechti and Keith Browne

The program was a panel discussion on the topic of Legionella disease, with Keith Browne of Lee & Browne Engineering, Mike Gulizio of Certified Laboratories and Jon Liechti of Saint Francis Hospital.

Mike Gulizio gave a history of Legionnaire's Disease. There were a number of theories as to the cause of this disease. It was difficult to identify because it had symptoms similar to pneumonia. In fact the same medicine that is used to treat pneumonia is used to treat Legionnaire's Disease.

Keith Browne reviewed design issues to minimize the risk of Legionella. ASHRAE Guideline 12-2000 and ASHRAE Standard 62-1999, JCAHO, ASHE, and AIA Guideline for Design and Construction all discuss methods of design to prevent this disease. He offered warnings that the guidelines even when strictly followed will not completely eliminate the bacteria, and

that the engineering community needs to be aware of the risks. Keith recommends that all engineers provide a service to their clients by sending ASHRAE Guideline 12 to the building owners so that they are aware of the risks of this disease.

To minimize the risks of Legionella, cooling towers should be located as far away from building ventilation intakes as possible. Legionella can be carried in cooling tower aerosols for up to 2 miles. We should use drift eliminators, maintain clean sumps, install filters, and educate owners on proper system maintenance.

Jon Liechti discussed the risks of Legionella in potable water systems. Showers, sink aerators, decorative fountains, and whirlpools are the most common locations for this type of bacteria to thrive. Any warm, stagnant water can promote the growth of these bacteria.

Some methods of controlling the growth of Legionella are thermal shock, shock chlorination, copper silver ionization, and the use of UV lights.

Mike Gulizio completed the discussion stating that the bacteria lives and thrives in slime. It produces its own slime while it grows which makes it difficult to kill if growing on the inside of your lungs. Antibiotics can kill the bacteria but has a hard time penetrating the slime.



63 members, 16 guests and one student were present at the chapter meeting.

Cary Pestel can be reached at 664-9756 or email: cpestel@2boonesales.com



RED BUD FILTER CELEBRATES 50 YEARS!

By Ron Spencer, Historian

In February of 2002, Red Bud Air Filter Sales and Services will celebrate their 50th anniversary. Founded in 1952 by Red Nesbit and Bud Gordon (thus the name), Red Bud got its start in the business changing washable filters and cleaning shopping carts for Safeway Stores. Red and Bud worked out of a

filling station and sold gas to help make ends meet.

Jerry Green went to work for his father-in-law, Bud Gordon, in June of 1971, and purchased the business seven years later.

Sales manager Bill Harding joined Red Bud when they purchased another small filter company in 1973. Bill spends much of his time working with engineers who design mech-anical systems for new construction jobs. He also coordinates getting the vendor's products while taking care of high profile, nationally known accounts in our area. Bill has earned his CAFS certification from NAFA.

Tom Ketter, the service manager, and Red Bud's top service technicians hold the NCT Certificate. Tom has more than 20 years of experience and has gained the knowledge to perform filtration upgrade retrofits, upgrade paint booths and install UV lights. He also works with customers to establish IAQ upgrades. Tom also serves on the board of the National Filter Service Association.

Guy Green worked in Red Bud's warehouse during high school and after graduation worked in the shop area, ran deliveries, worked as a service tech, and eventually ran the warehouse. He started the inside sales group and is now an outside salesman. He and Mike San Miguel earned CAF certification. He worked on NAFA's Clean Air Award Com-mittee.

Debbie Pryor and Jim Dockum are the backbone of customer service philosophy. Their dedication to accommodating customers' needs contributes greatly to Red Bud's success.

In 25 years of involvement with their major vendor they have attended innumerable training sessions. Red Bud has also hosted numerous local seminars on such topics as Basic Filtration, Advanced Filtration, and Filtration for IAQ.

The product lines have expanded to include liquid, hydraulic, compressor, oil, and fuel filtration. Target accounts consist of manufacturing plants, aerospace industry, power generating, and petrochemical industry. Their goal is to become a single source supplier for all of their customer's needs.

Red Bud's people are active members of local chapters of ASHRAE, BOMA, ACCA, the Oklahoma Association of Healthcare Engineers, Air and Waste Management, National Filter Service Association and NAFA. The employees serve on committees and boards of these associations.

Red Bud has grown from a one-bay filling station fifty years ago to the present 33,000 square foot facility. The staff has grown from three to twenty five employees.

Ron Spencer can be reached at 622-8191 or ronoss@aol.com

STUDENT ACTIVITIES

By Chad Marazas, Committee Chair

The Tulsa University Student Chapter had its monthly meeting last month, while some of the student members at Oklahoma State in Okmulgee are beginning their internships. We will soon begin the scholarship selection process so if anyone has any feedback please contact Chad Marazas (317-3151)

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

RESEARCH PROMOTION

By David Lam, Research Chair

As the New Year is under way, that means the calling committee begins to kick it into a higher gear. We are about where we were last year in contributions, so hopefully everyone will notice (via a phone call) the efforts of the Research committee as we hope to surpass last year's contribution totals.

I hope everyone reads the newsletter and has taken to heart the articles. We really need everyone's cooperation this year to have the year we need to have. The Region as a whole is behind once again in contribution totals. We cannot carry the Region but we can sure continue to set an example for the other chapters in our Region. It was apparent at the Regional Research workshop I attended back in August that our chapter is noticed as one of the strongest around. So far this year, that continues, as our attendance at chapter meetings has been as strong as ever. I hope that this continued support will be reflected in our total number of contributions and in our collection totals. We have the potential to have a great year and with your cooperation we will succeed in keeping scientific research in our related fields alive. It is our lifeblood.

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

NOMINATING COMMITTEE

The Nominating Committee has been selected. Paul Roberts will serve as chair, and his committee will consist of Keith Browne, Tom Owens, George Adams and Bob Allwein.

If anyone is interested in serving in any capacity next year, or knows someone who would be qualified, contact one of these people.

MEMBERSHIP PROMOTION

By Nancy Clowdus, Membership Chair

Membership promotion night at last month's meeting was a great success! Thanks to everyone who brought potential members. I have been busy following up on them. We are nearing our new member goal with a total of thirteen new members. Please look for them at the meeting and make them feel welcome!

This month's feature is the ASHRAE handbook. Members receive updated volumes annually. The four-volume series includes Fundamentals, HVAC Systems and Equipment, HVAC Applications, and Refrigeration. Each book presents fundamental engineering data revised as needed through Society-directed research; explains new advances in equipment; and covers application of new technologies to solve design and operation problems. *The handbook is available in *inch-lb* or *SI* versions and is now available on CD, so it will always be at your fingertips. I encourage each of you to take advantage of this wonderful ASHRAE benefit.

The delinquency phone campaign is underway. If you receive a phone call urging you to pay your dues, please don't delay. We want to keep all of our members involved and active. Please call me if you need information regarding your membership status. (*Excerpted from ASHRAE membership pamphlet, 94.)

2001/2002 NEW MEMBERS:

Tom Rogers – Hambrick Ferguson
David Brumbaugh

Jeff Moseley – York International

Aaron Bartek – Carrier Corp

Ben Mercer – Matrix

Steve Corbin – Natkin Contracting

David Goodin – Ferguson

Kory Zehr – Phillips & Bacon

Jeremy Colvard – RAE Corp

Robert Dixon – DS Herron

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

TEGA

By Steve Uerling, Chair

The following article was taken from the June issue of the ASHRAE Issues Government Affairs Newsletter:

Kyoto Alternative to Rely on Voluntary Cuts

Officials preparing an alternative to the 1997 global warming agreement that President Bush disavowed in March are focusing on voluntary measures for reducing greenhouse gas emissions.

Convinced that mandatory emissions standards such as those in the protocol negotiated and signed by the United States and 167 countries four years ago in Kyoto, Japan, would severely harm the U.S. economy, the Bush administration is considering new approaches that would allow industries to voluntarily meet less onerous targets. They would be allowed to do so without having to severely cut back production or incur major costs.

White House aides say Bush would like to demonstrate he cares about the global climate issue even if he objects to the particulars in the accord. Bush's contemplated alternative is premised on the assumption that dangerous levels of carbon dioxide and other gases can be reduced through advances in plant equipment and by creating forests and agricultural areas that absorb, or sequester, the gases. The administration is also considering proposing adoption of a trading system that would allow large industrial polluters that exceed emissions standards to buy offsetting credits from corporations that pollute very little.

These are all things bandied about inside and outside the White House, a senior administration official said, cautioning that a global warming task force headed by Vice President Cheney has yet to make any formal recommendations.

"We're working as hard as we can," said Lawrence Lindsey, Bush's economic adviser, who is taking a prominent role in the effort. "I think we have to gather more information. We don't understand a lot of the [proposed] mechanisms well, particularly on [carbon] sequestration. We do know new technologies create tremendous opportunities."

The Kyoto Protocol marked the first time that many of the world's industrial nations committed to binding limits on the heat-trapping gases that some

scientists say threaten catastrophic changes in the planet's climate. Under its terms, the United States would have had to reduce its emissions of carbon dioxide and other pollutants by 7 percent below 1990 levels by 2012.

However, the Senate refused to ratify the treaty during the Clinton Administration. President Bush then announced in March that he opposed the agreement because it exempts developing countries from any requirements and would harm the U.S. economy. Developing countries, such as China, have the highest growth curbs in these emissions and will soon outstrip the United States' level of emissions.

The administration is skeptical about some of the conclusions of recent United Nations studies on the effects of global warming and has asked the National Academy of Sciences for its views.

European and Japanese officials are unwilling to scrap the Kyoto protocol, which took nearly a decade to negotiate, and argue that a voluntary compliance treaty negotiated in 1992 has largely failed. European negotiators rejected a number of approaches being considered by the Bush administration, including carbon sequestration and emission credit swapping when the Clinton administration first proposed them in late 1999.

Steve Uerling can be reached at lbce@swbell.net

JANUARY CHAPTER MINUTES

By Cary Pestel, Secretary

A chapter meeting was held on January 10, 2002 with 63 members, 16 guests and one student present. Tech Session was at 5:30 with Bill Leizear of LAKOS speaking on *A History of Strainers, Cartridge Filters, Sand Filters, Bag Filters and Centrifugal Separators*.

President Bill Hanlon called the dinner meeting to order at 6:45.

Reception chair, John Hilger introduced the guests.

Membership Promotion chair Nancy Clowdus announced that this was membership promotion night and thanked all of our visitors for coming. This is the first year that our chapter has volunteered to purchase the meals of our guests for this special occasion.

Nancy Clowdus asked some of our mentors to introduce the new members.

Paul Roberts introduced Aaron Bartek and Steve Corbin, two of our new members with a short dissertation on their background in our industry.

Steve Johnson introduced Dave Goodwan and provided our members with a short dissertation about his experience in our industry.

The program was a panel discussion on the topic of Legionella disease, with Keith Browne of Lee & Browne Engineering, Mike Gulizio of Certified Laboratories and Jon Liechti of Saint Francis Hospital.

After the panel fielded questions, Bill Hanlon adjourned the meeting at 8:45 p.m.

Cary Pestel can be reached at 664-9756 or email: cpestel@2boonesales.com

JANUARY BOG MINUTES

By Cary Pestel, Secretary

The Board of Governors meeting was held on January 17, 2002 at the offices of Powers of Oklahoma. President Bill Hanlon called the meeting to order at 4:35 p.m.

Minutes: Upon review of the Board, a motion was made and seconded for approval of the December 13, 2001 Chapter meeting, the December 20, 2001 BOG meeting minutes, and the January 10, 2002 Chapter meeting minutes (as amended in our meeting).

Treasurer: Steve Johnson distributed his Treasurers Report for review and it was filed for audit.

Newsletter: Mary Bowers asked for all articles by the following Monday.

Research Promotion: Dave Lam announced that we are on the same pace for Research Promotion contributions that we were this time last year. The calling committee for contacting last year's donors has been set up.

Membership: Nancy Clowdus announced that we had a great meeting and we currently have 13 new members. Our goal is 25 new members, so she is comfortable with our pace. The phone campaign to delinquent members will begin February 1, 2002.

Programs: Cathy Keating has cancelled her appearance with us for our February meeting. Kelly Coday asked for suggestions.

Tech Session: There will be no Technical Session for Spouses' night.

Refrigeration: Ron Huntley said that he is attempting to contact Tri-Gen to set

up a plant tour. He is tentatively setting a date for some time in March 2002.

Historian: Ron Spencer reported that he is writing recalls for the newsletter.

Reception: John Hilger reported that everything was running smoothly and they were constantly working toward better methods for distributing the badges.

Website: Paul Mannas and Steve Johnson are working with EarthLink to establish a payment plan that will allow us to pay 6 months in advance, so we will not have to pay the \$5.00 monthly fee.

CRC Action: Keith Browne asked for PAOE point totals so he could update our website.

Nominating Committee: Paul Roberts announced that they are planning their first meeting tomorrow.

New Business: Bob Alwein asked people to start thinking about being a committee head next year. He is starting to create his list of committee heads.

Cary Pestel can be reached at 664-9756 or email: cpestel@2boonesales.com

