

The Oil Capital Air

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

Special Points of Interest

Volume XLVIII, Issue 9

Tulsa, Oklahoma

April 2006

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PLANT TOUR THIS MONTH AT McELROY MANUFACTURING



President's Message

By: Joel Karstetter

Thank you to everyone that attended the March meeting. Mr. Lee Burgett, President of ASHRAE, gave a very interesting talk on his ASHRAE initiatives and some of his travels around the world as ASHRAE President.

As engineers, contractors, suppliers, and educators in the HVAC and plumbing businesses we all benefit from the work of ASHRAE research every day, both professionally and monetarily. This research is the basis of much of our business, and without it we would not have the reference materials we all depend on. Additionally, our region receives more dollars back in research grants than we contribute. These dollars find their way back into our state's economy. During March the research promotion committee begins its annual calling campaign to solicit contributions to ASH-

RAE research. When contacted please give generously. I'm challenging all individuals to donate a minimum of \$100.00 and all companies to donate a minimum of \$250.00. Thank you for your support.

Last month we had our second annual poker tournament with the proceeds going to ASHRAE research. A special thanks goes to Chuck Mayfield of Engineered Equipment Company for organizing and hosting the event. We raised a total of \$340.00 dollars and had a great time doing it.

Our next meeting is our

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UPCOMING EVENTS

- April 13, 2006 Chapter Meeting (Plant Tour)
- 6:00 Plant Tour
- Dinner after Plant Tour
- Board of Governors Meeting April 20, 2006 Siemens

McELROY MANUFACTURING
833 N. FULTON

(Continued from page 1)

annual plant tour. This year the tour will be at McElroy Manufacturing. They manufacture the machines that weld plastic gas pipe in the field. This promises to be a very interesting tour. Mark your calendars now. This meeting is also student's night. If you know any students please encourage them to attend.

See you at the meeting.

Joel can be reached at 665-3974 or jkarstetter@abscompanies.com

Membership Promotion

By: Chuck Mayfield

Membership is in good shape heading into CRC 2006. We have exceeded PAR for PAOE points and continue to acquire more. Our membership has done a great job recruiting new members. And our delinquency rate is improving.

The March meeting was Membership night. I handed out a few new applications and introduced all of the new members for the year. If you are a mentor of a new member, please call them this month to answer any questions.

Please keep promoting NEO ASH-RAE. Thanks again for your efforts. A healthy chapter is a growing chapter.

Please contact Chuck Mayfield for additional information or applica-

tions.

Chuck Mayfield can be reached at 624-1005 or cmayfield@eei-ok.com

Research Promotion

By: Brian Hamilton

Research Promotion committee meeting will be the last week of March. We will be discussing fund raising, so be expecting a call from me or one of the committee members. Our challenge goal this year is \$45,246.00. We currently need to raise another \$15,200. Please be kind when you receive your donation call. If you are a new member or a member that has never given please give a little financial assistance to an organization that gives a lot back to our industry everyday.

Brian Hamilton can be reached at (918) 858-0600 or Smilenbrian@yahoo.com

History

By: Myke Thompson

The Rohde Family "Statehood Mayor, Unsung City Builder"

2007 will mark the 100th year anniversary of Oklahoma's Statehood. Around May 10th 1907 **Tulsa's Mayor W.E. Rohde** (the Grandfather of Bob Rohde) took office. Mayor Rohde was one citizen who

probably was more responsible for the Tulsa of today as viewed in retrospect than any other. His name is practically unknown to many of Tulsa's residents today. He was not a financial success; his name is not emblazoned on any private or public structure. Reference is made to **W.E. Rohde**, a statesman of the old school, Tulsa's statehood mayor, who first visioned a city of 15,000 here and laid the foundations upon which the city was able to double its population of 7,000 people within three years. Too honest to successfully play the political game and surrender his honest convictions, he was retired at the end of one term as mayor, but his record as one of the city's wisest executives still stands unchallenged. Rohde came to Tulsa approximately in 1905 from Colorado where he had achieved considerable prominence in Democratic politics. He opened up a real estate office on East First Street. Two outstanding events highlight the Rohde administration – the laying of asphalt paving in the business district and the purchase of the water plant and system. In both of these ventures Rohde led the fight against what seemed to be insurmountable odds, but the experience of later years has justified his good judgment in both undertakings. Tulsa's first paving was laid in 1906 under the administration of John O. Mitchell. The controversy then was waged between the brick and asphalt advocates and the brick forces won the preliminary

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skirmish. A construction company under contract from the city placed brick pavement on First Street from Boulder to Cincinnati avenues. By the spring of 1907 it had become so covered with mud as to be only effective from the base standpoint. It wore out in the course of time, and many years ago it was topped with asphalt. This is another evidence of Mayor Rohde's good judgment in making the switch from brick to asphalt pavement. The paving program was bitterly contested until the middle of the summer when a contract was awarded to a company out of Ohio, to pave the entire business district at a cost of approximately \$2,000,000. The mayor was severely criticized and Mayor Rohde believed in his decision for this project so much that he donated some of his own money to be used on this paving project.

Robert Charles (Bob) Rohde in 1960 started as a journeyman plumber for The McIntosh Company. In 1965 Bob was promoted to Vice President in charge of all field operations. Bob said he had no formal education in Engineering so he relied on what he could learn from others and through reading, and he says the ASHRAE Journals were always helpful to him. Also from one special person who he will always be grateful to is Ron Spencer. During his years with McIntosh, Smith Mechanical, Dick Morrow and Omni, Bob was directly involved with many interesting projects. Some of those projects were the remodel of the

American Airlines Service Center at 61st & Memorial, the 32 story 4th National Bank Building, several projects at St. Francis Hospital, Shell Building, Doctors Hospital, Jane Phillips Hospital in Bartlesville, NSU and OSU.

Bob has three sons who are well respected in the construction industry; **Brady Rohde** who is employed at McIntosh Services as the CAD manager and Sheetmetal Estimator. **Fritz Rohde** also works for McIntosh Services as a journeyman plumber / backhoe operator.

Kevin Rohde works for Palmer Plumbing as a journeyman Pipe Fitter / Plumber.

Myke Thompson can be reached at 270-1414 or Thompson.m@mcintoshservices.com

CTT

By Rob Teis

At last month's program society president Lee Burgett presented his vision for ASHRAE & shared his activities with us. Thank you, Mr. Burgett, for taking the time to be with us.

This month we have a plant tour at McElroy manufacturing. They manufacture fusion welding equipment for plastic gas pipe. McElroy Manufacturing Inc. not only designs, manufactures and markets the industry's most complete line of fusion equipment, it also sets the standard for fintube machines and the fluid power industry. Further-

more, MMI has an extensive history in design and has engineered a wide array of custom machines. The location is 833 North Fulton which is between Pine & Admiral and between Yale & Sheridan. You can visit their web site at <http://www.mcelroy.com/>. We will get started at 6pm & meet at the site.

Rob can be reached at 382-6134 or RobT@aaon.com

Chapter Meeting

By Pam Dunlap

The NEOK Chapter meeting was held on March 9, 2006, at the Tulsa Renaissance Hotel, with 52 members and 4 guests attending. President Joel Karstetter called the meeting to order at 6:30 p.m. He welcomed all members and guests, with special recognition given to Society President Lee Burgett, the evening's speaker. The meeting was also designated Past President's Night and Membership Promotion Night.

A Technical Session prior to the regular meeting was presented by John Morrow, with Specialty Products and Insulation Co. The topic was Insulation Applications.

Chuck Mayfield, Membership Promotion Chair, introduced new chapter members; we have 13 new members this year. He encouraged all members to invite guests and find new members. Chuck

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also announced the next Research Fundraiser: a Texas Hold'em Poker Night, on March 14, at the offices of EEI/ABS.

Mike Guillen, Reception Chair, introduced guests. He also introduced Oklahoma City Chapter President Shaun Sexton and thanked him for joining us for the evening.

Lee Burgett, Society President, announced the names of all chapter Past Presidents in attendance. He thanked them for their leadership; applause was given in appreciation of these honored members.

Keith Browne led members in the Pledge of Allegiance and prayer.

Rob Teis, CTT Programs Chair, introduced the evening's speaker, Lee Burgett. Mr. Burgett discussed his many interesting national and international excursions. He talked about the new strategic plan for the Society and how Society is carrying out that plan. He assured those in attendance that, even as busy as he is, he is having fun. He said that people around the world hold ASHRAE in high esteem. He expressed his excitement for the collaboration design organizations (i.e., ASHRAE, AIA) are doing on an energy-related document. President Burgett emphasized ASHRAE's role in sustainability.

President Karstetter and Oklahoma City President Sexton presented President Burgett with a gift of appreciation. President Burgett received a casting of a Rem-

ington statue.

President Karstetter thanked all those in attendance and reminded members of April's tour of McElroy Mfg. and CRC in Cancun. Meeting was adjourned at approximately 8:30 p.m.

The next Chapter meeting will be April 13, at McElroy Manufacturing, at 6:00 p.m. There will not be a Technical Session associated with that meeting.

Board of Governor's Meeting

By Pam Dunlap

The NEOK Chapter Board of Governors (BOG) meeting was held on March 16, 2006, at the offices of Siemens Building Technologies of Tulsa, with 16 members attending. President Joel Karstetter called the meeting to order at 4:30 p.m.

Minutes: February BOG and March Chapter meeting minutes were distributed prior to the BOG meeting and corrections were collected. Nancy Mack moved that minutes be approved as amended, Cary Pestel seconded the motion, and motion carried.

Treasurer: Nancy Mack presented financial data. The Board reviewed and discussed the report, with a general consensus that Chapter income and expenses are tracking as expected.

The report was filed for audit.

Newsletter: Dave Lam requested articles be received by March 17. The March newsletter has not been posted to the website. Dave received articles late and then had difficulties with the electronic assembly of the newsletter. Keith Browne reminded all chapter volunteers to follow through with responsibilities they have accepted.

Research Promotion: Brian Hamilton reported the status of corporate and individual gifts to research. The chapter is slightly behind in raising funds but hopes to narrow the gap over the next six weeks. The Research Promotion committee has met recently and will meet several more times prior to the CRC to assure every effort has been made to reach our goal. Brian also reported that \$340 was raised for Research at a recent Poker Night.

Membership Promotion: There are 13 new members this year.

CTT: Rob Teis reported that arrangements are being finalized for April's tour at McElroy's Manufacturing on April 13. We will meet at the facility at 6:00 p.m. for the tour, a brief chapter meeting and dinner.

The satellite broadcast from Society will be April 19, from 1:00 – 4:00 p.m. OSU-Tulsa has agreed to provide a place for the broadcast and is considering a joint event by offering a seminar in the morning. The Board decided to charge members \$20 for lunch

and the afternoon broadcast, \$25 for non-members. The topic will be "Sustainability and the Building Environment". OSU-Tulsa will announce their seminar and cost at a later date.

The Technical Session and our Main Program speaker in May will be from Kinetics. The topic for one of these discussions will be seismic requirements. Other professional organizations will be invited as disciplines in all phases of the building industry are effected by code requirements regarding seismic restraints.

Student Activities: Bob Allwein informed the Board that there is no longer a student advisor at OSU-Okmulgee. Bob attended the Engineering Challenge and felt like he has made more contacts at the high school level. He has sent to letters to six instructors at high schools with pre-engineering programs and is scheduled to meet with students at Tulsa Technology Center – Riverside campus. Scholarships will be awarded at the April meeting, which is also Student night.

Directory: Bill Hanlon reported that the Directory is in another level of updating; he has downloaded the Society database and is cross-checking this list of members for the Chapter with the Directory. The database is being coded to send a periodic notice to each member listed as a reminder to update information.

Attendance: Scott Pollard will send a test email "e-vite" to mem-

bers, requesting a response to verify email addresses.

Website: Paul Mannas reported that he has posted everything to the website that he has received.

CRC Action: Cary Pestel reported that all committees are at least at par on PAOE points. He encouraged all members planning to attend the CRC to make reservations soon.

Special Events: Jerry Beardslee has signed the contract with Clary Fields for the Chapter's annual golf tournament in September.

Nominating Committee: Paul Roberts reported that ballots will be collected prior to and at the beginning of April's Chapter meeting. Ballots will be counted at the meeting and results announced.

The next Board of Governors meeting will be April 20, 2006, 4:30 p.m., at Siemens Building Technologies offices, 41st and Mingo. Meeting was adjourned at 5:45 p.m.

Pamela Dunlap can be reached at 587-4747 or at pdunlap@matrixae.com

Directory

By Bill Hanlon

In today's digital world, information is so easily available that it sometimes becomes necessary to limit access to that information. Our first line of defense in this bat-

tle is the "password". We have tried to set up the directory to be as convenient as possible while still protecting the privacy of our members and their companies.

There are three levels of access within the directory. First is entry into the "Member" section. All Chapter members are given the password to gain access to this area of the directory. Once in the member section, an individual can request the password to edit his/her member listing. At the bottom of the member's listing page is a link called "send password to email address listed above". Make sure that the address listed is your current email address. Both your personal password and the membership section password will automatically be sent to that address.

Editing your business listing requires yet another password, as if you don't have enough stuff to remember. In order to get this password by clicking on "send password" at the bottom of the business page, your name and email address must be in the listing and the box allowing password access has to have the word "yes" in it. This can only be done from the editing screen, so either the directory administrator or someone within the company already qualified will need to make this change.

I know all of this sounds rather confusing, but it's really not. No more so than doing a heat load calculation on the Taj Mahal.

Bill Hanlon can be reached at 622-1500 or bill.hanlon@icstulsa.com

CRC Action

By Cary Pestel

ASHRAE CRC is quickly approaching. The event will be held in Cancun Mexico and the opening round of golf, scheduled for April 26th, should be spectacular. The sight is in Spanish, but you will see Welcome Dinner starts Wednesday evening with all of the CRC meetings beginning Thursday morning (April 27th).

You can register online by going to www.ashraecd-mexico.org. There is a button on the left side of the page that says "CRC". Click this and you will go to a second page that is also in Spanish. Scroll to the bottom for the English version of the agenda and pre-registration forms.

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

Student Activities

By Bob Allwein

Bob Allwein spoke to pre-engineering classes at the Broken Arrow Vo Tech and Jenks High School. The students were told what engineers working in the HVAC field do, and a set of mechanical plans for a high end 13,000 square foot Montana residence were used to explain the various components of an innovative ice making heat pump system. ASHRAE literature was passed out that explained the various types of jobs available in the industry and the amount of education that is needed for each. A total of five classes were spoken to, three at Jenks and two at Broken Arrow. The teacher at Jenks has asked for ASHRAE's help in coming up with a refrigeration project that could be used in the classroom.

If you have any ideas please let Bob Allwein know.

The Tulsa Engineering Challenge was conducted at TTC Riverside Campus on Thursday March 16th. Twenty three area schools participated in the event that had competitions in mathematics, bridge building, rubber band powered cars, aluminum boat building and a number of other engineering related events. The TEC is sponsored by area engineering societies. ASHRAE assisted in the Aluminum Boat event. Students built boats out of a 12" x 12" piece of regular weight aluminum foil and then dropped pennies into the boat until it sank. The winning boat held over three-hundred and fifty pennies which weigh over two pounds. This is the first year ASHRAE participated in the event.

Bob Allwein can be reached at 770-5380



Tulsa Engineering Challenge



NEOK ASHRAE Chapter & OSU Tulsa Present:
**Heat Pump Geothermal Technology &
 ASHRAE Satellite Broadcast:
 Sustainability & the Building
 Environment**
April 19, 2006

Hosted by: 
 Parking is FREE

Location: Oklahoma State University – Tulsa | North Hall, Room 220
 700 North Greenwood
 Tulsa, OK 74106

Heat Pump Geothermal Technology
9:30 –11:30 am

Presented by Dr. James Bose, PE

Ground source heat pumps (GSHPs) are electrically powered systems that tap the stored energy of the greatest solar collector in existence: the earth. These systems use the earth's relatively constant temperature to provide heating, cooling, and hot water for homes and commercial buildings.

Several basic design configurations are available based in part on available property and design considerations. Although modern GSHP technology was first introduced in 1933, interest in GSHPs jumped significantly during the Oil Embargo in the 70's, and research at Oklahoma State University has developed the technology commercially into an internationally accepted heating and cooling option.

Learn the basics of GSHP technology and receive an update on its use during this presentation.

PDH Credits

0.2 CEUs/Arch: 2 CEUs-hsw/ 2 PDHs.

Cost:

\$5.00

Sustainability & the Building Environment
12:00 –3:00 pm

About the Presenters

Presenters will explore how we can better maximize the effective use of resources while minimizing the impact on the environment. Learn more about the presenters at

<http://www.ashrae.org/greenbuildingsbroadcast>

PDH Credits

Earn two (2) Professional Development Hours (PDHs) or two (2) AIA Learning Units by completing the Participant Reaction Form following the broadcast/webcast.

Cost:

\$20.00 for ASHRAE members / \$25 for non-members

Lunch is provided.

Join ASHRAE Now and Save \$50!

Participants who are not currently ASHRAE members are cordially invited to join ASHRAE at a special introductory rate (\$50 discount) for the first year of membership.

Contact Rob Teis for sign-up @ (918) 382-6134



Presentation of AON Golden Circle Investment



Dave Knebel and Lee Burgett



Past Presidents Night

Northeastern Oklahoma Chapter of ASHRAE
Ballot for Election of Officers and Board of Governors
 2006/2007

Ballot: The following individuals have been nominated. Each has agreed to serve if elected. You may "write in" another individual in the blank shown, providing he/she has agreed to serve. Please complete this ballot, including your signature, and **return by fax** to your Chapter's Nominating Committee Chairman, Paul Roberts at **(918) 627-7004** or bring to the April chapter meeting.

CHAPTER OFFICERS

President:

- Dave Lam** is automatically advanced.

President-Elect:

Pamela Dunlap

Treasurer:

- Nancy Mack**

Secretary:

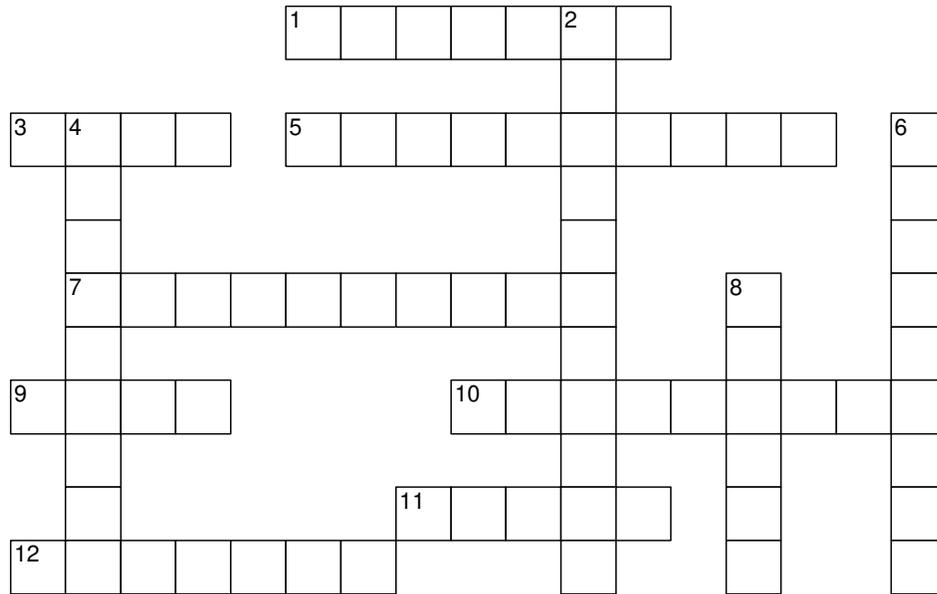
- Dan Owens**

BOARD of GOVERNORS

- Mike Gulizio**
- Bill Hanlon (Past President)**
- Mike Beda (Past President)**
- Bob Allwein (Past President)**
- Steve Uerling**
- _____

Signature: _____

APRIL PUZZLE



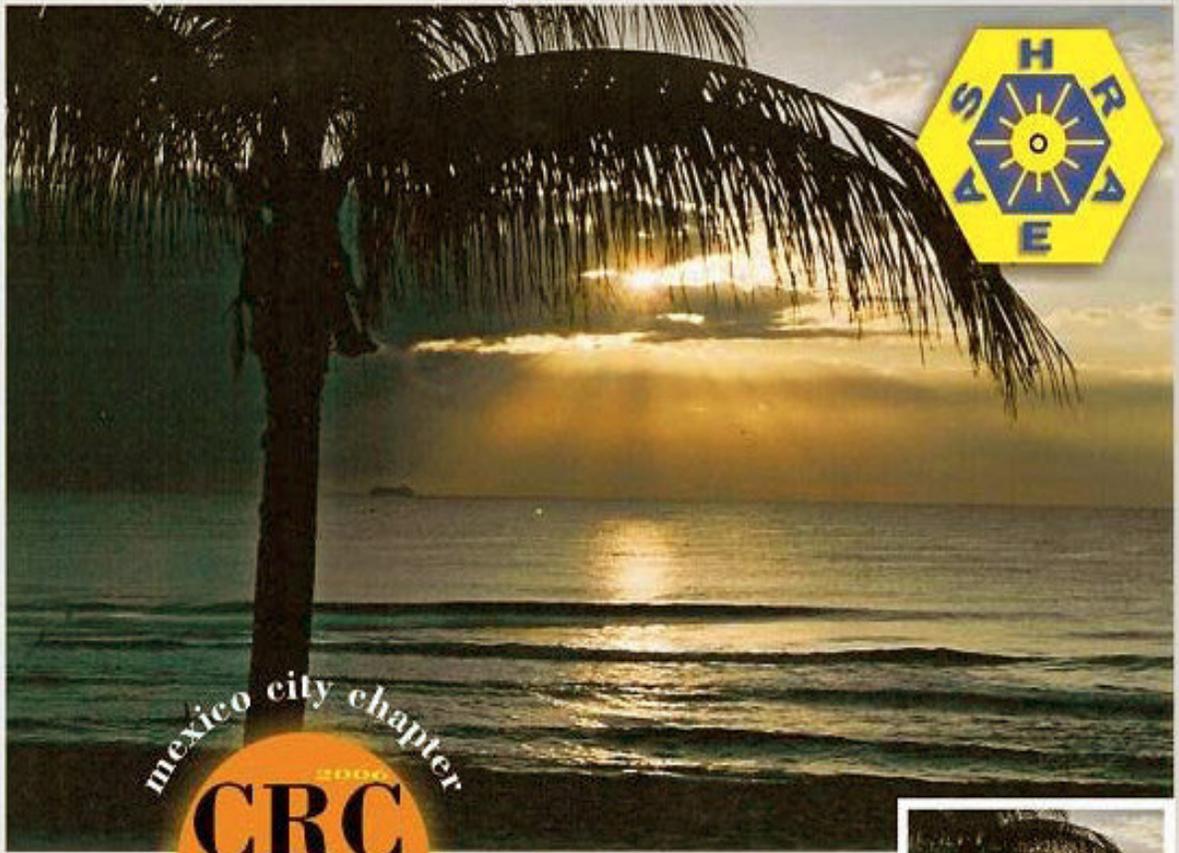
www.CrosswordWeaver.com

Across

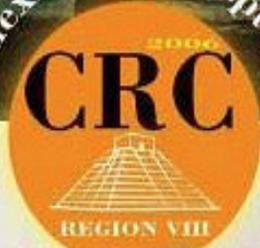
- 1 A small opening through which liquid flows
 3 A unit of power applied to electron flow.
 5 An instrument used to measure the specific gravity of a liquid.
 7 A group of thermocouples connected to increase voltage output.
 9 The difference in the rated rpm of a motor and the actual operating rpm.
 10 Substance in a refrigeration system drier that collects moisture.
 11 The gaseous state of a substance
 12 An accordion like device that expands and contracts when internal pressure changes.

Down

- 2 A term used to describe a vapor when pressure is applied and the molecules are compacted closer together.
 4 A gas often used with air or oxygen for welding, brazing, or soldering applications.
 6 The combining of a material with oxygen to form a different substance.
 8 An electron of fluid-flow path that makes a complete loop.



mexico city chapter



cancun
MEXICO

Hotel Fiesta Americana Condesa Cancún
Blvd. Kukulcán Km 16.5 Zona Hotelera
77500 Cancún, Quintana Roo
Reservaciones México: Por definir
Reservations USA: TBD
Clave Grupo/Group Code: Por definir/TBD



APR
APRIL 27,
APRIL 27, 28 & 2

APRIL 27, 28 & 29, 2006

Visit our website at www.ashrae-neok.org

The Oil Capital Air

Northeastern Oklahoma Chapter
 American Society of Heating Refrigerating and Air-Conditioning Engineers, Inc.
 P.O. Box 54069
 Tulsa, OK 74155-0069

Chapter Volunteers

Officers:

| | | | |
|-----------------|-----------------|----------|----------|
| President | Joel Karstetter | 665-3974 | 665-4219 |
| President-Elect | David Lam | 250-5590 | 459-0997 |
| Secretary | Pamela Dunlap | 587-4747 | 587-8008 |
| Treasurer | Nancy Mack | 491-6600 | 491-6985 |

Board of Governors:

| | | | |
|----------------|--|----------|----------|
| Robert Allwein | | 770-5380 | |
| Bill Hanlon | | 622-1500 | 835-9992 |
| Jeff Ferguson | | 877-6000 | 877-4000 |
| Mike Gulizio | | 455-1712 | 451-1596 |
| Steve Uerling | | 836-0271 | 836-0275 |

Committee Chairs:

| | | | |
|---------------|---------------|----------|----------|
| CRC Delegate | Cary Petsel | 664-9756 | 664-1675 |
| CRC Alternate | Steve Johnson | 270-1414 | 270-1444 |
| Attendance | Scott Pollard | 250-5590 | 459-0997 |

Committee Chairs (cont.)

| | | | |
|--------------------|-----------------|----------|----------|
| CTT | Rob Teis | 382-6134 | 382-6367 |
| Directory | Bill Hanlon | 622-1500 | 835-9992 |
| Historian | Mike Thompson | 270-1414 | 270-1444 |
| Honors & Awards | Gene L. Redford | 622-0600 | 622-0618 |
| Invocations | Chad Smith | | |
| Membership | Chuck Mayfield | 624-1005 | 624-1006 |
| Newsletter | David Lam | 250-5590 | 459-0997 |
| Programs (Tech) | Keith Browne | 258-7460 | 258-7460 |
| Programs (Main) | Mike Beda | 664-0312 | 665-3351 |
| Publicity | Darren Stephens | 622-4822 | 663-8543 |
| Reception | Mike Guillen | 664-0312 | 665-3351 |
| Refrigeration | Mike Gulizio | 458-1712 | |
| Resource Promotion | Brian Hamilton | 858-0060 | 858-0061 |
| Special Events | Jerry Beardslee | 587-4747 | 587-8008 |
| Student Activities | Robert Allwein | 770-5380 | |
| TEGA | Mike Base | 836-0271 | 836-0275 |
| Webmaster | Paul Mannas | 664-0312 | 665-3351 |

Calendar of Events

| Important Dates | Meeting | Location |
|------------------|----------------------|------------------------|
| June 16----- | Board of Governors | Powers of Oklahoma |
| July 21----- | Board of Governors | Powers of Oklahoma |
| August 18----- | Board of Governors | Powers of Oklahoma |
| September 8----- | Chapter/Golf Tourney | Clary Fields Golf Club |
| September 15---- | Board of Governors | Siemens |
| October 13----- | Chapter | Renaissance Hotel |
| October 13----- | Board of Governors | Renaissance Hotel |
| November 10----- | Chapter | Renaissance Hotel |
| November 17----- | Board of Governors | Siemens |
| December 8----- | Chapter | Renaissance Hotel |
| December 15----- | Board of Governors | Siemens |
| January 12----- | Chapter | Renaissance Hotel |
| January 19----- | Board of Governors | Siemens |
| February 9----- | Chapter | Renaissance Hotel |
| February 16----- | Board of Governors | Siemens |
| March 9----- | Chapter | Renaissance Hotel |
| March 16----- | Board of Governors | Siemens |
| April 13----- | Chapter | Plant Tour |
| April 20----- | Board of Govenors | Siemens |
| April 27-29----- | CRC | Cancun, MX |
| May 12----- | Chapter | Renaissance Hotel |
| May 19----- | Board of Governors | Siemens |
| June 26-30----- | Annual Meeting | Denver,CO |