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

Volume LII, Issue 4 Tulsa, Oklahoma November 2009

Rain, Rain Go Away

President’s Message
By: Chuck Mayfield

The first two meetings this year have been impacted by the rain. Our golf tournament had so many new water hazards that I thought we would need waders to finish. Then we had a torrential downpour during our October meeting at the Islamorada Fish Company, but we still had a good crowd and great speakers. I would like to thank Mr. Garen Ewbank and Mr. Dan Ellis for the outstanding programs on ground source heat pumps.

My first thought about all the recent rain is to put an end to the rain for a while. Then I started to think about all the positive benefits. The rain seems to give me the perception of a cleaner world. The rain fills up our lakes and drinking supplies. The rain is able to provide one of the essential elements needed for crop and plant growth. You are probably asking, “How does this relate to ASHRAE?”

All of us are trying to find more ways to conserve and be more responsible with our natural resources. The rain is a good place to start by using rain harvesting. This is an old concept that has been used for hundreds, if not thousands, of years. My grandfather grew up on a farm and they always used many different ways to harvest the rain. My favorite method is to put a large barrel under a downspout from the roof gutter system on a barn or house. Over time, this will allow you to have a large amount of water for your plants and small garden.

On second thought, I don’t want the rain to stop for long, just for our November 12th meeting. We will have our evening meeting at Islamorada Fish Company with two excellent programs. You will not want to miss the boiler technical session. The main program will educate us on how our research promotion money is being spent. Some of the funds are making their way back to our State to fund research at Oklahoma State University.

On a regional level, Ken Fulk, Region VIII DRC, sent out a Regional Newsletter, which should be making its way to all of our members. If you are interested in regional committees, there are several opportunities. Plus, it is time to get your passport updated so you can attend the 2010 Chapters Regional Conference in Monterrey, Mexico April 22-24th. Rob Teis will be contacting members soon about your attendance. This regional newsletter has a lot of great information so please let me know if you don’t receive it, and I’ll email you a copy.

“The best thing one can do when it’s raining is to let it rain” – Henry Wadsworth Longfellow

See you at the November meeting!

Chuck Mayfield can be reached at 918.624-1005 or cmayfield@eei-ok.com

(Continued on page 2)
Chapter Technology Transfer  
By: Duane Harmon

We had a good turn-out at last month’s tech session considering the downpour of rain. The technical session presented by Garen Ewbank, Ewbank Geo Testing, was informative on understanding and sizing ground loop systems.

**This month’s tech session** focuses on hybrid heating systems. The technical session will be presented by Jeff Deal, CEO of Hamilton Engineering, Inc., of Livonia, Michigan, manufacturer of high efficiency water heating and hydronic heating products and systems. Jeff will discuss the logic of a Hybrid heating system, using condensing equipment as the primary heat source and existing or new lower efficiency as the backup/maximum load assistant, existing heat distribution designs and the application of outdoor reset and lower water temperatures on all but design days. Jeff will discuss new heating distribution designs using higher $\Delta T$’s and overall lower water temps to take advantage of condensing technology. He will also discuss the cost differences between traditional, mid and high efficiency equipment, the various levels of efficiencies in the high efficiency category and what real payback terms would be for the various upgrades.

Last month’s main program session by Dan Ellis, President of ClimateMaster, was well received by those in attendance. Dan’s presentation on Geothermal Heat Pump Systems and the available tax incentives was informative and educational. Dan’s work to educate Congress on the benefits of geothermal heat pumps and the role they could play in meeting our nation’s energy-efficiency and climate change goals should be beneficial to all of us in the industry over the next few years.

At **this month’s main program**, Jeffrey D. Spitler, Regents Professor, and C.M. Leonard, Professor in the School of Mechanical and Aerospace Engineering at Oklahoma State University, will present the main program. Dr. Spitler will talk about OSU HVAC&R Research, with some emphasis on ASHRAE Research. He leads the Building and Environmental Thermal Systems Research Group, which conducts research in building heat transfer and HVAC&R systems. Some recent projects have been in the areas of load calculations, energy calculations, ground-source heat pump systems, design and simulation of unitary equipment, microchannel heat exchangers, pipe insulation, and heat exchanger fouling. He currently chairs the ASHRAE Research Advisory Panel. He will present current and recent HVAC&R research at OSU, the new psychrometric chambers, and other research facilities.

Duane Harmon can be reached at 918.877-6000 or dharman@cyntergyaec.com

Membership Drive  
By: Scott Sherwood

Hello once again! The Northeastern Oklahoma Chapter is in full swing and so is our campaign to recruit new members. Your Membership Promotions Committee has been contacting local HVAC businesses in search of potential members. As your committee leader, I want to ask all current members to be on the lookout for potential members as well. With your involvement our chapter can be more effective in reaching out to our community and attracting new members. With that being said, I would like to welcome Brian Meddler to the NEOK Chapter. Brian works for Global Flow Products in Broken Arrow which is involved in the manufacturing and distribution of accessories for mechanical rooms. I hope everyone makes him feel welcomed at our next chapter meeting. If anyone needs membership information, registering, applications, new member password for the website or ideas on promoting our chapter, please contact me.

Scott Sherwood can be reached at 918.317.3152 or ssherwood@trane.com

Chapter History 1990’s  
By: Gene Redford

As we moved into the 90’s, our chapter was meeting at the Candlewood Club. About that time our chapter decided to change method of selecting the editor for the Oil Capital Air and assigned that as a duty to the President-Elect each year. This has been working fine, as we have one of the best newsletters in our region.

At CRC, each chapter is graded on different committees such as membership, research, student activities, etc. I’m sure most of you have heard about the PAOE points, which stands for Presidential Award of Excellence. Again, our chapter is one of a few chapters in our region to continually score “Par” in all committees every year. In 1999-00 year our chapter was the only chapter in ASHRAE to achieve the maximum allowed points in all committees.

Up to this point in our chapter’s history, Chick Morse was the only NEOK president to receive the Golden Gavel Award for his year of 1984-85. It looks like, as we moved into the 90’s, the chapter went to work and we brought this award back four more times.

- 1993-94 Ron Huntley
- 1996-97 Mark Hixon

(Continued from page 1)
Mary Bowers was close to receiving this award in her year of 1997-98, but that year we hosted the CRC. It is unusual to win this award the year your chapter hosts a CRC, but we were just a fraction of points away from winning anyway.

Like I said, our chapter hosted the CRC in 1997-98 at the Doubletree Warren Place. Jack Tumilty and Chick Morse co-chaired this committee and to date I think it is still one of the best, if not the best, CRC meetings held in Region VIII. As I remember, the rest of the chapters in our region did everything they could to top it. This was also the year the Candlewood Club closed down and the chapter moved to the Sheraton Hotel on 41st Street.

The year I was president will be a year to remember for me. As we started off the year, our incoming president (Rob Sullivent) was transferred to Texas. I took over as president and about four weeks later my treasurer (Charles Brunner) was transferred out of state (If you are counting we just lost half of the officers). So, we had a good brainstorming meeting and came up with replacements, then finished out the year still achieving the Golden Gavel Award that year (Boy, was I surprised). Of course this is why we have one of the best chapters in ASHRAE, because we have great members and teamwork.

Keith Browne jumped right in the next year and won the Golden Gavel again. Jack Tumilty was awarded the Distinguished 50-year Member Award that same year at the annual meeting in Seattle.

The meeting was adjourned at 5:27 pm.

Mike Gulizio can be reached at 918.455-1712 or mgulizio@cox.net

Chapter Note
By: Keith Browne

Fellow Northeastern Oklahoma ASHRAE members: We have been notified that long-time member Ron Spencer has been diagnosed with ALS, otherwise known as Lou Gehrig’s disease. Ron has served our chapter in many capacities for well over three decades, including president of the chapter in 1978. He is without a doubt the foremost expert in our chapter on refrigeration issues. He is also a recipient of the Region VIII Regional Award of Merit. Ron has always been the one to go to in our chapter for problem solving on any HVAC related issue. Now that he is facing many challenges and problems in this phase of his life, for
which there are no human solutions; he would appreciate your prayers. For those of you who know Ron, a phone call would cheer him up and give him an opportunity to keep in touch with what is going on with our chapter. His phone number is 918-671-8008. If he cannot answer the phone, leave a message and he will get back to you. Please take a moment and give an old friend a call.

Keith Browne can be reached at 918.258.7460 or browne.bce@cox.net

Web Site
By: Scott Pollard

By the time you are reading this, the updates to the chapter web site are probably complete. Please take a look at http://www.ashrae-neok.org/. The site has both a fresh new look and is easier to navigate. We thank Ryan Crone for his efforts. Please send questions or comments to me.

Scott Pollard can be reached at 918.250.5590 or scott.pollard@omni-2.com

Research Promotion
By: Chad Smith

With November’s meeting being Resource Promotion night, please make every effort to be there. At November’s meeting, I will be recognizing our donors who have made honor roll donations over the course of the 2008-2009 year. I will also be handing out the recognition coins to those donors who have given over $500 to ASHRAE research in the past year. It will be a great night, so be sure to attend.

I also have some extra wood coin holders that hang on the wall. You are given one of these for free with your first donation to Society and then another every 7th donation since the plaques only hold 6 coins. I have about 8 or 10 and will give them out on a first come, first serve basis. So if you have lost yours and need a replacement, please call me or e-mail me and let me know.

If you agreed to be one of the tournament sponsors and have not yet paid, please make checks payable to ASHRAE Research and turn it in as soon as you can. Also, some of you have mentioned that you needed an invoice to present to your companies. If that is the case, please contact me at 918-665-6600 or at chad@airetechcorp.com and let me know. We will get an invoice to you as soon as possible. Thank you again and I hope to see all of you next month.

Chad Smith can be reached at 918.665-6600 or Chad@airetechcorp.com

Welcome to Northeastern Oklahoma Chapter of ASHRAE

Vision Statement

Northeastern Oklahoma ASHRAE will be the regional leader in the arts and sciences of heating, ventilation, air conditioning and refrigeration; will be the leading source of technical and educational information for Northeastern Oklahoma; will be the primary provider of opportunity for professional growth for chapter members.
<table>
<thead>
<tr>
<th>Date</th>
<th>Technical Session</th>
<th>Speaker</th>
<th>Main Program</th>
<th>Speaker</th>
<th>Theme and Special Guests</th>
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<tr>
<td>10-Sept-09</td>
<td>Golf Tournament at Clary Fields Golf Course</td>
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<td>8-Oct-09</td>
<td>Ground Source Design for Commercial / Industrial Systems</td>
<td>Garen Ewbanks, Ewbanks Geo Testing</td>
<td>Geothermal Systems and Tax Incentives</td>
<td>Dan Ellis, President Climatemaseter</td>
<td>Membership Night; Refrigeration Night</td>
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<td>12-Nov-09</td>
<td>Hybrid Boiler Systems</td>
<td>Hamilton Engineering</td>
<td>ASHRAE Research Status</td>
<td>OSU Faculty</td>
<td>Research and Consulting Engineers Night</td>
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<td>10-Dec-09</td>
<td>NONE - Lunch Meeting</td>
<td>NONE - Lunch Meeting</td>
<td>Green Vs. Green</td>
<td>Panel of 5 TBA</td>
<td>Panel Discussion</td>
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<td>14-Jan-10</td>
<td>Commissioning</td>
<td>Jim Snyder</td>
<td>DOAS &amp; ASHRAE 62</td>
<td>TBA</td>
<td>Membership Promotion Night &amp; YEA Night</td>
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<td>11-Feb-10</td>
<td>NONE—Spouses Night</td>
<td>NONE—Spouses Night</td>
<td>Working Marriage</td>
<td>Joe McGee</td>
<td>Research Auction; Spouses Night</td>
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<td>11-Mar-10</td>
<td>ECM Pump Design</td>
<td>TBA</td>
<td>LEED &amp; Hydronic Systems</td>
<td>TBA</td>
<td>Student Activities, Past Presidents, &amp; Golden Circle Night</td>
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<td>8-April-10</td>
<td>OSU HVAC&amp;R Research</td>
<td>OSU Graduate Students</td>
<td>Variable Refrigerant Applications</td>
<td>TBA</td>
<td>Plant Tour</td>
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<td>13-May-10</td>
<td>Energy Audit &amp; Campus Applications</td>
<td>TBA</td>
<td>LEED, Controls &amp; Verification</td>
<td>TBA</td>
<td>Awards Night; Installation of Officers</td>
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Chapter Volunteers

Office: Voice    Fax
President Chuck Mayfield 624-1005 624-1006
President-Elect Rob Teis 382-6134 382-6295
Treasurer Mike Kirk 258-5618 258-2425
Secretary Mike Gulizio 455-1712 451-1596

Board of Governors
Robert Allwein 770-5380
Steve Johnson 270-1414 270-1444
Mike Beda 664-0312 665-3351
Joel Karstetter 665-2974 665-4219
Keith Browne 258-7460 258-7460

Committee Chairs
CRC Delegate Dan Owens 270-1414 270-1444
CRC Alternate Chuck Mayfield 624-1005 624-1006

Committee Chairs (cont.)
Attendance Scott Pollard 250-5990 459-0997
Directory Bill Hanlon 835-8333 835-9992
Historian Gene L. Redford 270-1414 254-1444
Honors & Awards Gene L. Redford 270-1414 254-1444
Invocations Paul Roberts 382-6268 382-6295
Membership Scott Sherwood 317-3152 250-5419
Newsletter Rob Teis 382-6134 382-6295
Programs (Main) Duane Harmon 877-6000 877-4000
Programs (Tech) Jeff Ferguson 877-6000 877-4000
Publicity Mike Guillen 258-2665 258-4328
Reception Brady King 493-2712 493-2713
Refrigeration Eric Norris 382-6303 382-6369
Research Promotion Chad Smith 665-6600 627-7004
Special Events Dave Lam 250-5590 459-0997
Student Activities Sam Davis 249-1918 249-9014
Sustainability Mike Phelps 877-6000 877-4000
Webmaster Scott Pollard 250-5590 459-0997

Important Dates
August 20, 2009 ........................................... Board of Governors Joe’s Crab Shack
September 10, 2009 ..................................... Chapter Golf Tourney Clary Fields Golf Club
September 17, 2009 ..................................... Board of Governors Joe’s Crab Shack
October 8, 2009 .......................................... Chapter Islamorada Fish Company
October 15, 2009 ......................................... Board of Governors Joe’s Crab Shack
November 12, 2009 ..................................... Chapter Islamorada Fish Company
November 19, 2009 ..................................... Chapter Joe’s Crab Shack
December 10, 2009 ..................................... Chapter Lunch Meeting Islamorada Fish Company
December 17, 2009 ..................................... Board of Governors Joe’s Crab Shack
January 14, 2010 ........................................... Chapter Islamorada Fish Company
January 21, 2010 ........................................ Board of Governors Joe’s Crab Shack
January 23-27, 2010 ................................... ASHRAE Winter Meeting Orlando, FL
February 11, 2010 ...................................... Chapter Islamorada Fish Company
February 18, 2010 ....................................... Board of Governors Joe’s Crab Shack
March 11, 2010 ........................................... Chapter Islamorada Fish Company
March 18, 2010 ........................................... Board of Governors Joe’s Crab Shack
April 8, 2010 ............................................. Chapter Islamorada Fish Company
April 15, 2010 ........................................... Board of Governors Joe’s Crab Shack
April 22-24, 2010 ....................................... CRC Monterey, Mexico
May 13, 2010 ............................................. Chapter Islamorada Fish Company
May 20, 2010 ............................................. Board of Governors Joe’s Crab Shack
June 26-30, 2010 ....................................... Annual Meeting Albuquerque, NM

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NEOK BOOSTER TICKET
APPLICATION 2009 - 2010

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<td>Student Meals Qty.</td>
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<td><strong>TOTAL PAID:</strong></td>
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* Tax deductible donation for the benefit of the Chapter

Company Name: __________________________ Contact Person: __________________________
Address: ____________________________________________
Phone: __________________________ Fax: __________________________

Make checks payable to: NEOK ASHRAE

**Mike Kirk** will be on hand at all meetings to process your forms and checks. Contact Mike at 918-258-5618 with any questions.