

# 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 9

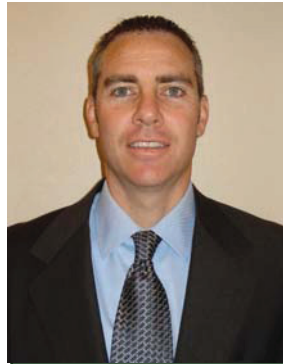
Tulsa, Oklahoma

April 2010

## Special Points of Interest

- President's Message
- Chapter Technology Transfer
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- Feb BOG Minutes
- March Meeting Minutes
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- ASHRAE Webcast

## Monterrey to Houston



Chuck Mayfield  
Chapter President

### President's Message

By: Chuck Mayfield

Have you ever spent over one year planning an event? Put thousands of hours into every detail? Held numerous meetings to coordinate all the fine points; then within 30 days of

the big event, the plug is pulled because of circumstance outside of your control? This is what just happened to the Monterrey, Mexico ASHRAE Chapter.

The members of the Monterrey chapter were planning to host the 2010 Chapters Regional Conference (CRC) for Region VIII starting April 22<sup>nd</sup>. In recent weeks, violence has escalated on the border of Mexico to the point that the United States Government issued a travel warning. This travel warning included the city of Monterrey. The regional chairs, with guidance from Society, decided to cancel the Monterrey CRC. They were concerned about the safety of those attending.

Monterrey is a young ASHRAE Chapter and I hope this does not take the wind out of their sails. I would like to think "postponed" is a better word than cancelled, since Monterrey will get another chance to host the Region VIII CRC. It is still tough to handle this type of change at the last minute after months of planning and thousands of dollars committed to the event. Thomas Edison said, "Many of life's failures are people who had not realized how close they

were to success when they gave up." Don't give up, Monterrey.

So what is next for CRC 2010? Houston, TX! The regional chairs had a quick meeting and said, "The show must go on." The Houston Chapter was nice enough and half crazy, to offer to plan and host the CRC since Monterrey was off-limits. Houston has a limited amount of time and resources but they are planning to host a complete CRC, including training for incoming committees and officers as well as seminars and general business meetings. The event is planned for May 6<sup>th</sup>, 7<sup>th</sup>, and 8<sup>th</sup> and will be the same format as any regular CRC. Please read the rest of this newsletter for more details and make your travel plans for Houston.

Byron Pulsifer said, "To adapt, is to move ahead." Thanks, Houston, for helping Region VIII move forward.

Chuck Mayfield can be reached at  
918.624-1005 or [cmayfield@cei-ok.com](mailto:cmayfield@cei-ok.com)

### Chapter Technology Transfer

By: Duane Harman

We had a good turn out at last month's tech session on energy saving hydronic pump applications. The technical session was presented by Tim Ruppert, Midwest Regional Sales Manager for Wilo-USA LLC, Inc.

This month's tech session focuses on ASHRAE Research at OSU. The technical session will be presented by Graduate Students from OSU. Presenters and topics are:

- Garrett Hansen: "Experimental Meas-

(Continued on page 2)

## UPCOMING EVENTS

- **April 8th - Chapter Meeting at Islamorada Fish Company, Bass Pro Shop**

5:00 cocktails

5:30 pm Tech Session

6:30 pm Main Program

- **April 15th, 4:30 pm Board of Governors Meeting at Joe's Crab Shack**

**\* Don't forget to buy half-pot tickets at the next meeting!!! April 8th could be the day you draw the Ace of Spades & take home half of the cash.**

## APRIL CHAPTER MEETING

April 8th, 2010

Islamorada Fish Company-101 W Bass Pro Drive, N-Broken Arrow

(Continued from page 1)

urement of Pond Heat Exchanger Performance."

- Kasey Worthington "Thermal Performance of Pipe Insulation."
- Sankar Padmanabhnan ""Experimental and Theoretical Investigation of Frost Growth on Outdoor Coils in Air Source Heat Pump Systems."

Last month's main program presented by State Senator Randy Brogdon, was well received by those in attendance. Senator Brogdon is a former Northeastern Oklahoma Chapter member and has been a successful businessman in the HVAC industry for over 30 years. He also has been extensively involved in local and state government.

This month Corey Bartlett, Sales Engineer with Daikin, will present on Variable Refrigerant Volume (VRV) technology, pros and cons, capabilities and limitations, and good and bad applications for these systems. Corey has been involved in HVAC design for 18 years including the last 3-1/2 with Daikin AC.

Duane Harman can be reached at 918.877-6000 or [dharman@cyntergyaec.com](mailto:dharman@cyntergyaec.com)

## Half-Pot Drawing

By: Bill Hanlon

A big thanks to all who have participated in our half-pot drawing for ASHRAE research. The total stands at \$623.00 after the March Chapter meeting and the deck is down to 22 cards. Five more cards will be drawn at the April meeting in search of the ace of spades. If the ace remains hidden through the April meeting, we will draw cards at the May meeting until we have a winner. Our goal is to top \$1000.00 in ticket sales, which means \$500.00 or more going to ASHRAE research. Now is the time to get in the game.

Bill Hanlon can be reached at 918.835.8333 or [bill.hanlon@ICStulsa.com](mailto:bill.hanlon@ICStulsa.com)

## Student Activities

By: Sam Davis

Two \$800 student scholarships will be presented at the April meeting. Please join us to support our valuable students.

Sam Davis can be reached at 918.249-1918 or [Sdavis@federalcorp.com](mailto:Sdavis@federalcorp.com)



## Research Promotion

By: Chad Smith

Last month was a big month in our annual research fund drive. At the end of March, we are sitting at 59% of our annual goal. Even in difficult economic times, our chapter digs deep to support ASHRAE research and I believe again, we will meet that goal. March was our Golden Circle recognition night. To be recognized as a Golden Circle contributor, you must give a minimum of \$ 10,000.00 annually. We are fortunate to have a great corporate member in our local chapter, AAON

Incorporated. AAON has been a Golden Circle contributor for more than a decade now.

We were honored to have Norm Asbjornson, CEO of AAON Incorporated, with us for the evening. Mr. Asbjornson briefly shared with the membership his beliefs about ASHRAE's role in our industry and why he made certain AAON was a significant supporter of research.

As I mentioned at the meeting, for many it is easier to write a check than to actually give your time to a cause. In addition to the financial generosity that AAON has shown over the years, they have given even more in the number of hours their employees have served ASHRAE both on a local and national level.

Some of AAON's employees who have contributed to our local chapter are Paul Roberts, who is a past president and held nearly every committee chair position in our chapter and continues to insure the longevity of our chapter by chairing the nominations committee and recruiting in new people for the future leadership of our chapter. Rob Teis is our current President-Elect, scheduled to be our president in the 2010-2011 year. Rob has served on several committees prior to his current positions and won regional awards for his excellent leadership in ASHRAE research.

In addition to the local service, AAON's employees have been influential at the Society level. Mark Fly, Vice-President of Engineering, has received the Distinguished Service award from Society in 2008. He is currently serving as chair of TC 9.12 Tall Buildings and has either chaired or been involved in over 25 Technical Committees dating back to 1986.

AAON's most recognized volunteer is Dave Knebel, Vice-President of Sales and Technology. Mr. Knebel has been involved with ASHRAE since 1976. He is an ASHRAE Fellow and member of ASHRAE College of Fellows. He received the Distinguished Service Award from Society in

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1995, the same year he was named a Fellow. He has served on the Board of Directors at Society level and has chaired or been a member of over 30 committees, special committees, or Technical Councils. Mr. Knebel wasn't a hard sell to support ASHRAE research; he knows first hand the benefits of these funds as he received funding for a research project for energy calculations in 1983.

Corporately, AAON has funded a significant portion of the construction of the Psychometric Test Chambers at both Montana State University and Oklahoma State University. These facilities are likely to participate in ASHRAE research as well. Simply put, not only does AAON talk the talk, but they walk the walk when it comes to supporting ASHRAE with their money, their resources, and their people.

I would also like to recognize the Tulsa chapter of The Mechanical Contractors Association of America (MCAA). MCAA is made up of 9 area mechanical contractors who help encourage and train new technicians in the trade. In years past, MCAA has been a Golden Circle contributor for over a decade as well. But they have felt the effects of this economy like all of us. Even though they haven't been able to match their usual giving level, they still believe strongly in ASHRAE and they gave a \$5,000.00 donation which is Society's Gold Coin sponsor level.

On behalf of the entire Northeast Oklahoma chapter and Society as a whole, I would like to express our sincere appreciation to both of these organizations for their continued support of ASHRAE research.

Remember, personal honor roll donations are a minimum of \$100 and corporate honor roll donations are a minimum of \$150. With a \$250 minimum donation, you are recognized as a Bronze Coin sponsor and will receive the Bronze commemorative coin from Society as well as special recognition on the ASHRAE Journal.

We are beginning to near the home stretch for our fund raising campaign. The Research Promotion calling committee will be contacting all members who have not yet donated this year. We are trying to collect all of our donations before the end of April. Because of this, we ask that you send your checks to Chad Smith at the address below. If you need someone to pick up a check, please let us know. The easiest way to donate is online at [https://www.ashrae.org/aboutus/resource\\_promotion.asp](https://www.ashrae.org/aboutus/resource_promotion.asp). If you do donate online, please send an e-mail to me at [chad@airetechcorp.com](mailto:chad@airetechcorp.com) letting me know you have contributed. If you have any questions about research, please feel free to contact Chad Smith at 918-665-6600.

Checks should be made out to "ASHRAE Research." Please

mail checks to:

Chad Smith  
Airetech Corporation  
7636 E. 46<sup>th</sup> Place  
Tulsa, OK 74145

Chad Smith can be reached at  
918.665-6600 or [Chad@airetechcorp.com](mailto:Chad@airetechcorp.com)

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## Chapter History

By: Gene Redford

In thinking of what to write about this month, I was wondering how many people will remember some of the names who have been a part of our industry, such as:

R&B Equipment Sales, *Howard Godfrey*; Watt Company, *Neal Watt*; Earl Offutt Company, *Earl and Sam Offutt*; R. B. Akins, *Dick Calkins*; Natkin & Company, *Dean Hawley*; Swan Air Conditioning Company, *Richard Swan*; AES Air Conditioning Company, *Dick Drinkwater*; Peyton Air Conditioning Company, *Archie Peyton*; McCune & McCune, *Gordon McCune*; William J. Collins & Associates, *Jack Tumilty*; HTB, *Rex Ball*.

Other names that were apart of our history were: Tom Reinhart, John von Gonten, Pete Winget, Clarence Dollmeyer, Jim Netherton, Bob Pauling, Chick Morse, Everett Nolte, Jim Shipman, Ike Holmes, Dusty Roads, Jim Shaw, Sid Simon, Allan Davis, Harry Hembree, Howard Kirsch, and John Mitchell.

These are just a few names that crossed my mind as I wondered how many worked with or for these companies. It is amazing how companies can change their names, but the people seem to stay the same. Just think how all of these companies have impacted our lives and careers over the last 40 years. I wonder how many members in our chapter have worked for any of these companies.

Remember ASHRAE started out as ASHVE in 1894 with 75 members and became ASHRAE in 1919 after establishing a permanent research staff, located at the U. S. Bureau of Mines Building in Pittsburgh, PA. The laboratory was moved to Cleveland in 1944. The Guide was established by Society in 1922 and grew from 5,000 copies to 18,000 copies by 1948. The membership had grown to 2,000 members by 1929, reaching 39 states and 16 foreign countries. By 1948 there were 39 chapters, one student branch at Texas A&M and over 6,000 members in all 48 states, Hawaii, Puerto Rico, and 37 foreign countries.

(Continued on page 4)

Our chapter was chartered on October 4, 1948 with 25 members. W. R. "Bob" Lee was instrumental in putting our chapter together and was elected the first President, A. D. Holmes as President-Elec, Richard Shoemaker was Secretary and Neal Watt was Treasurer. Other members at that time were, Clarence Dollmeyer, Jim Netherton, Bob Pauling, W C Roads and Pete Winget.

In all my years working in this industry I still wonder what happens to all those drawings that get printed on the projects we build. I remember turning in all kinds of as-built drawings and O & M books, but they never seem to stay with the buildings. It seems like when we go into the buildings later to look at any retrofit work, there are no plans to be found of the building. Maybe it is the same thing that happens to that one sock you can never find.

Gene Redford can be reached at  
918.270.1414 or redford.g@mcintoshservices.com

## February 18th Board of Governors Meeting Minutes

By: Mike Gulizio

**Attendees:** Chuck Mayfield, Dan Owens, Mike Gulizio, Bill Hanlon, Bob Allwein, Chad Smith, Scott Pollard, Keith Browne, Joel Karstetter, Eric Norris, Brady King, Rob Teis, Steve Johnson, Chad Smith

The NEOK Chapter Board of Governors (BOG) meeting was held on February 18th, 2010 at Joe's Crab Shack.

Chapter President, Chuck Mayfield, called the meeting to order at 4:33 PM.

February Chapter Meeting minutes were accepted as amended.

**Treasurer:** Chuck Mayfield reviewed the financial reports. Several items were questioned. A check for \$75.00 to Tulsa Engineering Society was approved. The amount for Region 8 dues was questioned. Chuck stated he would validate the amount invoiced before approving the check.

**Newsletter:** Rob Teis stated the articles for the next Newsletter are due February 25th. Rob also reported on his "President Elect Training" trip.

**Resource Promotion:** Chad Smith was commended for his great job putting on the 2010 ASHRAE Research Auction. \$2,450.00 was raised. Chad is going to assemble a calling committee next week and is also planning a Poker Game to raise money for Research.

**Membership Promotion:** The Membership Award will be presented at the March Chapter Meeting. Delinquencies are down.

**CTT / Main Programs:** State Senator, Randy Brogdon is speaking at the March Chapter Meeting.

**CTT/Refrigeration:** Eric Norris is searching for a plant tour location.

**Student Activities:** Keith Browne stated the Scholarship Committee is looking for recommendations for applicants from the membership.

**Directory:** Bill Hanlon reported a trouble free month.

**History:** Gene Redford reported one member is contemplating applying for a Distinguished Service award.

**Website:** Scott Pollard is sending some test emails.

**Reception:** President Chuck Mayfield expressed a desire to have 2 people at the reception table for the meetings. Brady King was commended for the custom name tags he and his wife created for Spouse's Night.

**CRC Action Committee:** PAOE Update: Dan Owens reported we are at par in all Categories but 2. CTT is behind, but Dan stated we should have no problem achieving par. Dan suggested a technical article of at least 250 words for the newsletter would earn the Chapter some extra points.

**Special Events:** Chuck Mayfield suggested to Rob Teis he begin a search for someone to head this up for next year.

**CRC 2012 Host Committee:** There will be 2 co-chairs, Keith Browne and Dan Owens.

**New Business:** President Chuck Mayfield has not seen anything from Ken Fulk on Golden Gavel. Chuck stated that traditionally the March Meeting is Golden Circle Night and Past Presidents night. Dan Owens mentioned he was sending invitations via US mail. Scott Pollard mentioned he ate lunch at La Islamorada and had our same meeting meal for \$17.00. Keith Browne made a motion to move the Tumilty Scholarship account and CRC money from Merrill Lynch to Bank of Oklahoma where there is no service fee. It was seconded by Mike Beda. The motion was approved unanimously.

The meeting was adjourned at 5:38 pm.

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

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## March 11th Chapter Meeting Minutes

By: Mike Gulizio

NEOK ASHRAE Technical Session and Chapter Meeting were held on March 11, 2010 at the Broken Arrow Bass Pro Complex.

The Technical Session topic was “Energy Saving Pump Applications” presented by Tim Ruppert, Wilo-USA LLC, INC.

At 6:38 President Chuck Mayfield called the Chapter meeting to order in the Islamorada Restaurant. Chuck reminded attendees of the ongoing “Half-Pot” promotion to raise funds for ASHRAE Research.

President Chuck Mayfield invited Dustin Searcy to introduce our guests: Travis Moats, Debbie Brown, Bill Kite, Donnie King, Darren Wolff, Fred Hoffman, Tim Ruppert.

There were 3 OSU students: Mike Carmichael, Justin Schrameck and Mekko Donathan attending the meeting.

Chuck welcomed Scott Kidwell as our newest member.

Chad Smith spoke about ASHRAE Research activity in Oklahoma and specifically recognized AAON as a Golden Circle Contributor. Chad introduced Norm Asbjornson, CEO of AAON, who spoke of the benefits of ASHRAE research. Norm received a standing ovation.

Chuck invited Paul Roberts to announce the nominees for next year’s officers.

- Rob Teis                    President
- Mike Kirk                President-Elect
- Chad Smith              Treasurer
- Scott Pollard            Secretary

Board of Governors:

- Bill Hanlon
- Joel Karstetter
- Bob Allwein
- Dan Owens
- Dave Lam

Paul Roberts delivered an invocation related to the 9/11 disaster and then led us in prayer. Chuck Mayfield led the group in The Pledge of Allegiance.

The buffet was opened for dinner at 6:53.

Gene Redford and Bill Hanlon drew several numbers for a half pot winner. The pot is still growing as no one has yet drawn the winning card.

At 7:25 Chuck Mayfield invited the Past Presidents to come to the front of the meeting room for a group portrait.

At 7:30 Keith Browne introduced our speaker for the evening, State Senator Randy Brogdon. Senator Brogdon’s topic was, “Current Issues Facing The State of Oklahoma.” He finished his talk at 7:46 and opened the floor for questions.

President Chuck Mayfield announced the date and time of our next Chapter meeting as April 8<sup>th</sup>.

The meeting was adjourned at 8:13.

Mike Gulizio can be reached at  
918.455-1712 or [mgulizio@cox.net](mailto:mgulizio@cox.net)

## March 11, 2010 Meeting Pictures



*NEOK Chapter*



*Past Presidents*

# 2009/2010 Programs

Date	Technical Session	Speaker	Main Program	Speaker	Theme and Special Guests
10-Sept-09	Golf Tournament at Clary Fields Golf Course	Golf Tournament at Clary Fields Golf Course	Golf Tournament at Clary Fields Golf Course	Golf Tournament at Clary Fields Golf Course	Golf Tournament at Clary Fields Golf Course
8-Oct-09	Ground Source Design for Commercial / Industrial Systems	Garen Ewbank, Ewbank Geo Testing	Geothermal Systems and Tax Incentives	Dan Ellis, President Climatemas-ter	Membership Night; Refrigeration Night
12-Nov-09	Hybrid Boiler Systems	Hamilton Engineering	ASHRAE Research Status	OSU Faculty	Research and Consulting Engineers Night
10-Dec-09	NONE - Lunch Meeting	NONE - Lunch Meeting	Green Vs. Green	Panel of 5 TBA	Panel Discussion
14-Jan-10 *Lunch Meeting	NONE - Lunch Meeting	NONE - Lunch Meeting	Upcoming Code Changes for HVAC Equipment	Mark Fly, AAON Inc. Director of Engineering	Membership Promotion Night & YEA Night
11-Feb-10	NONE—Spouses Night	NONE—Spouses Night	Working Marriage	Joe McGee	Research Auction; Spouses Night
11-Mar-10	Energy Saving Pump Applications	Mark Hunt, Wilo	Oklahoma and Small Business Politics	Randy Brogdon, Oklahoma State Senator	Past Presidents, & Golden Circle Night
8-April-10	OSU HVAC&R Research	OSU Graduate Students	Variable Refrigerant Systems	Corey Bartlett, Daikin	Student Activities
13-May-10	Commissioning	Jim Snyder	ASHRAE 62.1	Dennis Stanke, Trane Commercial Systems	Awards Night; Installation of Officers

## 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

Visit our website at <http://www.ashrae-neok.org/>

### Chapter Volunteers

#### Officers:

		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		665-3974	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	250-5590	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 Harman	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

### Calendar of Events

#### Important Dates

August 20, 2009.....	Board of Governors
September 10, 2009 .	Chapter Golf Tourney
September 17, 2009 .	Board of Governors
October 8, 2009 .....	Chapter
October 15, 2009 .....	Board of Governors
November 12, 2009 .	Chapter
November 19, 2009 .	Board of Governors
December 10, 2009..	Chapter <b><u>Lunch Meeting</u></b>
December 10,2009...	Board of Governors
January 14, 2010.....	Chapter <b><u>Lunch Meeting</u></b>
January 21, 2010.....	Board of Governors
January 23-27, 2010.	ASHRAE Winter Meeting
February 11, 2010....	Chapter
February 18, 2010....	Board of Governors
March 11, 2010.....	Chapter
March 18, 2010.....	Board of Governors
April 8, 2010.....	Chapter
April 15, 2010 .....	Board of Governors
April 6-8, 2010.....	CRC
May 13, 2010.....	Chapter
May 20, 2010.....	Board of Governors
June 26-30, 2010.....	Annual Meeting

#### Meeting

#### Location

Joe's Crab Shack
Clary Fields Golf Club
Joe's Crab Shack
Islamorada Fish Company
Joe's Crab Shack
Islamorada Fish Company
Joe's Crab Shack
Marriott Southern Hills
Marriott Southern Hills
Islamorada Fish Company
Joe's Crab Shack
Orlando, FL
Islamorada Fish Company
Joe's Crab Shack
Islamorada Fish Company
Joe's Crab Shack
Houston, Texas
Islamorada Fish Company
Joe's Crab Shack
Albuquerque, NM

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**ASHRAE REGION VIII**

**2010 CRC**



**MAY 6-8**

**THE WOODLANDS, TEXAS**

**The Woodlands Waterway Marriott Hotel & Convention Center**



For hotel reservations call **800-262-1509** or

[www.marriott.com/hotels/travel/houmw-the-woodlands-waterway-marriott-hotel-and-convention-center](http://www.marriott.com/hotels/travel/houmw-the-woodlands-waterway-marriott-hotel-and-convention-center)

Mention ASHRAE CRC to get the room rate of \$129 per night.

CRC registration information to follow soon.

*(The Woodlands Waterway Marriott is closest to Bush Intercontinental Airport)*



## ASHRAE Learning Institute Spring 2010 Online Course Series

### 2 WAYS TO REGISTER

**Internet:** [www.ashrae.org/onlinecourses](http://www.ashrae.org/onlinecourses)

**Phone:** Call toll-free at 1-800-527-4723 (US and Canada) or 404-836-8400 (worldwide)

**Note:** You may register up to 24 hours prior to an online seminar. Courses are in US Eastern Standard Time.



**Introduction to Thermal Energy Storage Systems for A/C**  
Wednesday, April 7, 2010 – 1:00 p.m. to 4:00 p.m. EDT

**Using Standard 90.1 to Meet LEED Requirements**  
Monday, April 26, 2010 – 1:00 p.m. to 4:00 p.m. EDT

**Complying with Standard 90.1-2007: HVAC/Mechanical**  
Monday, April 12, 2010 – 1:00 p.m. to 4:00 p.m. EDT

**Introduction to Cleanroom Design**  
Wednesday, April 28, 2010 – 1:00 p.m. to 4:00 p.m. EDT

**Energy Management in New & Existing Buildings: A Sustainable Activity**  
Wednesday, April 14, 2010 – 1:00 p.m. to 4:00 p.m. EDT

**District Cooling & Heating Systems: Central Plants**  
Monday, May 3, 2010 – 1:00 p.m. to 4:00 p.m. EDT

**Complying with Standard 90.1-2007: Envelope/Lighting**  
Monday, April 19, 2010 – 1:00 p.m. to 4:00 p.m. EDT

**Complying with Requirements of ASHRAE Standard 62.1-2007**  
Wednesday, May 5, 2010 – 1:00 p.m. to 4:00 p.m. EDT



**Understanding & Designing Dedicated Outside Air Systems (DOAS)**  
Monday, May 10, 2010 – 1:00 p.m. to 4:00 p.m. EDT

## Hot Products from ASHRAE

A leader in HVAC&R technology, ASHRAE publications cover topics that impact every facet of the environment, both indoors and out.

### Latest Publications from ASHRAE!

- Standard 189.1-2009, Standard for the Design of High-Performance Green Buildings* (A Jurisdictional Compliance Option of the IGCC)
- ASHRAE Handbook Online* – Web-Based access to all 4 volumes
- ASHRAE Pocket Guide* – Useful information that fits in a shirt pocket
- IAQ Guide: Best Practices for Design, Construction and Commissioning*
- Load Calculation Applications Manual*

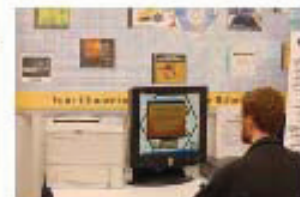
### Other Products from ASHRAE!

- Energy Efficiency Guide for Existing Commercial Buildings*
- Dampers and Airflow Control*
- Building Information Modeling Guide*
- Advanced Energy Design Guide for Small Hospitals and Healthcare Facilities*
- Principles of Heating, Ventilating, and Air Conditioning* – Textbook based on the 2009 ASHRAE Handbook - Fundamentals

Visit [www.ashrae.org/bookstore](http://www.ashrae.org/bookstore) to learn more about these and other outstanding ASHRAE publications!

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**Renew  
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Membership  
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and  
Manage Your  
Membership**



**Northeastern Oklahoma Chapter of ASHRAE  
Ballot for Election of Officers and Board of Governors  
For chapter year 2010/2011**

**Ballot:** The following individuals have been nominated. Each has agreed to serve if elected. You may “write in” another individual in the blanks 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) 382-6295**, by email to **paulr@aaon.com** or bring to the April chapter meeting. Ballots will be counted by the Board of Governors. Installation of those so elected, will follow at the May chapter meeting.

**CHAPTER OFFICERS**

**President:**

**Rob Teis** is automatically advanced.

**President-Elect:**

**Michael Kirk**

\_\_\_\_\_

**Treasurer:**

**Chad Smith**

\_\_\_\_\_

**Secretary:**

**Scott Pollard**

\_\_\_\_\_

**BOARD of GOVERNORS**

**Joel Karstetter (Past President)**

**Bill Hanlon (Past President)**

**Dave Lam (Past President)**

**Bob Allwein (Past President)**

**Dan Owens (Past President)**

\_\_\_\_\_

Signature: \_\_\_\_\_



A free webcast from ASHRAE

Webcast April 21st, 2010  
12:00pm - 3:00pm

Hosted by:

**Cytergy AEC**

320 S. Boston  
12th Floor  
Tulsa, OK 74103

To register contact:

Duane Harman  
dharman@cytergyaec.com

Lunch (pizza) will be provided.  
Please RSVP by April 14th.



## Right from the Start— Commissioning for High Performing Buildings



American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.