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## UPCOMING EVENTS

- *Jan 4th — Chapter Lunch Meeting @ Ti Amo (11:30 am)*
- *Jan 12th — Board of Governors Meeting @ Cyntergy 810 S. Cincinnati Ave. 4:45-6:15pm.*

## Approaching Halftime

About a year ago my boss mentioned that he was “approaching halftime” in regards to his working career. That idea has stuck with me. In fact, lately I have been contemplating this statement more and more as I approach my 50th birthday next year and complete my 23rd year as a professional engineer. Overall statistics show we work on average about 51 years (assuming starting at 16 years and retiring at 67 years).

Working in the Oklahoma Panhandle on a farm gave me an early start to “earning a wage”. I turned 13 years old the summer of my first custom harvesting experience. I asked my grandfather what I should do if I met a policeman while we were “roading” the combines, trucks and headers, and he said, “just sit up real high and wave”. This was 36 years ago so hopefully my overall “halftime” was a few years back.



Regardless, it does start you thinking about a few things. For instance: What halftime adjustments do I need to make? Am I still learning and trying to get better every day? Have I invested well in the younger folks under my influence so they can succeed and not repeat my mistakes? Have I properly acknowledged those that have contributed to my development and successes? What is my overall health score? How long do I want to maintain this full-time work pace? Is what I am doing sustainable for another 25 years? Am I availing myself to people that have navigated the “second half” well and learning from them? Am I going to reach my retirement goals?

Ultimately, none of us are guaranteed a single day more but as we approach the end of a year and as some of us “approach halftime” in our professional and work careers these are probably good questions to ask.

In a more practical sense, you might have noticed that we are about halfway through this 2016 – 2017 chapter year. It is flying by! Many of the same questions I list above are appropriate for our chapter leadership and members who serve in chapter operations. We want to hit our goals for the year and right now is a good time to evaluate



**Jeff Ferguson**  
 2016-2017  
 Chapter President

*(Continued on page 2)*

January Chapter Meeting, Jan 4th (11:30 AM)

Ti Amo, 6024 S. Sheridan Road, Tulsa, OK

Topic: Application of Computational Fluid Dynamics





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where we are. The Management by Objectives (MBO) tool is designed for this very purpose. Committee chairs will be providing a status update within the next two weeks and updating their respective MBO's. This is another good built-in exercise intended to keep chapter operations and committee chairs on target for their yearly goals.

To our chapter members, I want to thank each of you for your attendance and participation in our chapter meetings, events and operations this last fall. Additionally, your personal and business contributions to ASHRAE Research are much appreciated. In general, whatever your role or participation has been to this point, now is also a good time to evaluate what continued contributions – time, resources etc. – you can reasonably provide your local chapter and Society as we look to finish strong this coming Spring.

A note about our upcoming chapter meeting: At our January 4th, 2017 lunch meeting we will be recognizing the local contractors in our industry. We will also be welcoming our first of two ASHRAE Distinguished Lecturers, Dr. Kishor Khankari, Ph.D. Dr. Khankari is President of AnSight LLC and specializes in physics-based simulations and analysis to tackle real world heat and mass transfer problems in the built environment. Please make plans to attend this critical upcoming meeting and encourage many of your ASHRAE colleagues and friends to attend also.

Finally, planning is underway for our February Research Promotion Auction. Begin thinking of items to donate to this worthy cause. We have a committee organized and will be contacting organizations and individuals for donations within the next few weeks. Contact Duane Harman or Ryan Dunkerson with inquiries or to arrange donation items.

Jeff Ferguson can be reached at 918-877-6000 or [jferguson@cyntergy.com](mailto:jferguson@cyntergy.com).



## RESEARCH PROMOTION

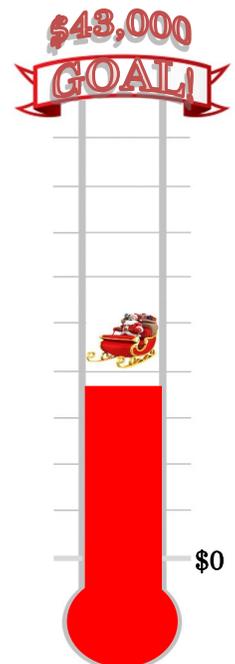
By: Paul Oman

Merry Christmas & Happy New Year!! To date we are at 37% of our goal for the 2016-17 ASHRAE year with a current total of \$15,800.00 Thank you for your generous support to Research Promotion. As you budget for this year's contributions please keep ASHRAE Research high on your list. One hundred percent of your donation goes to research!! You can contribute online at [ASHRAE Research](#).

We have already begun collecting items for our annual auction scheduled for the evening of February 2nd this year, and are anticipating a great turnout. Please save the date and plan to bring a guest, or two. It's a very casual and fun event for all. Please let us know if you plan on donating items so we can get them collected and on our list prior to the event.

Thank you for your continued support to ASHRAE!!

Paul Oman can be reached at 918-249-1918 or [poman@federalcorp.com](mailto:poman@federalcorp.com).





*"Christmas gift suggestions:  
 To your enemy, forgiveness.  
 To an opponent, tolerance.  
 To a friend, your heart.  
 To a customer, service.  
 To all, charity.  
 To every child, a good example.  
 To yourself, respect."  
 -- Oren Arnold*



**TREASURER REPORT**  
 By: Nolan Chance

Last month we had 43 people in attendance for our meeting. The majority of the attendees are using PayPal Here at the meetings or using company boosters. I am still working through invoicing and collecting on boosters. This will be an ongoing item to make sure we receive payment on all boosters.

The chapter meeting attendance has been great this year and we continue to improve our efficiency of getting members checked in at the meetings.

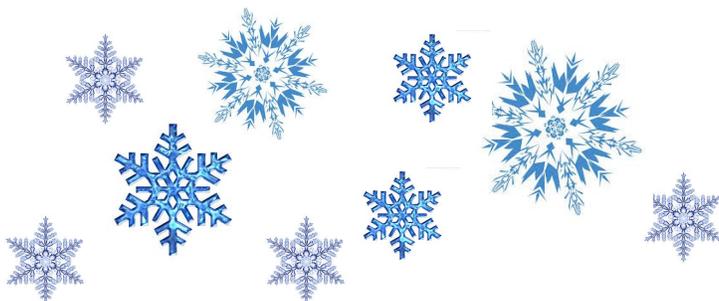
I hope that everyone has a happy holiday season and I look forward to seeing you all at next month's meeting!

Please see our Net Worth report.

Nolan can be reached at 918-605-5726 or [nolan@pecook.com](mailto:nolan@pecook.com).

Net Worth - As of 11/30/2016  
 (Includes unrealized gains)  
 As of 11/30/2016

Account	11/30/2016 Balance
<b>ASSETS</b>	
<b>Cash and Bank Accounts</b>	
BOK - Checking	27,797.95
BOK - Investment-CRC-Training	19,284.69
Jack Tumilty Scholarship Fund	28,388.27
<b>TOTAL Cash and Bank Accounts</b>	<b>75,470.91</b>
<b>Investments</b>	
NEOK ASHRAE	3.56
<b>TOTAL Investments</b>	<b>3.56</b>
<b>TOTAL ASSETS</b>	<b>75,474.47</b>
<b>LIABILITIES</b>	
<b>Other Liabilities</b>	
*Sales Tax*	0.00
<b>TOTAL Other Liabilities</b>	<b>0.00</b>
<b>TOTAL LIABILITIES</b>	<b>0.00</b>
<b>OVERALL TOTAL</b>	<b>75,474.47</b>



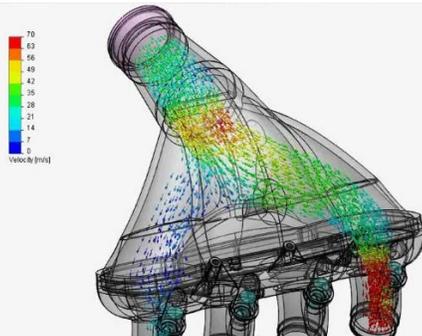


## CHAPTER TECHNOLOGY TRANSFER

By: Andrew Sneed

Thank you to all who came out for our most recent lunch meeting. It was very interesting having Ron Wendorski with Greenheck break down the fundamentals of sound and how it impacts HVAC equipment selection and operation. Now we are looking forward to our next monthly meeting for the ASHRAE year on Wednesday, January 4th, 11:30 AM at Ti Amo Ristorante, 6024 S. Sheridan Ave. The speaker will be our first ASHRAE Distinguished Lecturer for the year, Dr. Kishor Khankari, President of An-Sight, LLC out of Ann Arbor, MI. Dr. Khankari provides engineering solutions and insights through Physics based simulations and analyses. Kishor has several years of experience in providing optimized HVAC solutions to a wide variety of applications involving external wind engineering, plume dispersion, displacement ventilation, natural ventilation, etc.

Dr. Khankari is a Fellow of ASHRAE. He is a past President of the Detroit ASHRAE Chapter, past Chair of ASHRAE Technical Committee TC9.11 Clean Spaces and a Vice Chair of Research Administration Committee (RAC) at a national level. He is a recipient of ASHRAE's Distinguished Service Award.



Dr. Khankari will be speaking to us about "Application of Computational Fluid Dynamics (CFD) for Built Environment." This presentation will show how CFD can help in identification and mitigation of risks due to poor airflow distribution at early stages in the design, rather than after the building is occupied. This presentation will look at several case studies for a wide variety of applications including active and passive chilled beams, smoke propagation in atria, clean rooms, patient rooms, cooling tower plume dispersion, and others.

Be sure to mark your calendars now before the holidays so that you don't miss this meeting. And check out the online calendar for future meetings. This will be the first lunch meeting of 2017 and the first of two ASHRAE Distinguished Lecturers coming to speak to us this year.

### Call for Award Submissions:

If you have designed a project, new or renovation, that is innovative in its approach to energy efficiency or IAQ, or has a creative approach to an unusual design challenge, you deserve to be recognized!

ASHRAE's Technology Awards give you and your clients a chance to get recognition at the regional or national level. National winners are profiled in the ASHRAE Journal. If you have a project you are proud of, contact Andrew Sneed for more information, or click on [Technology Awards](#).

ASHRAE  
JOURNAL

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### 2017 ASHRAE Winter Conference:

It's almost that time! The [2017 ASHRAE Winter Conference and AHR Expo Technical Program](#) is available in PDF format as well as through the Interactive Tech Program and Personal Scheduler. The Interactive Tech Program allows you to compile sessions by technical interest area. The Personal Scheduler allows you to search the technical program, and schedule an itinerary for the conference. The Conference and AHR Expo will take place in Las Vegas, January 28 - February 1.

Andrew Sneed can be reached at 918-584-0102 or [sneed@phillipsgomez.com](mailto:sneed@phillipsgomez.com).



## MEMBERSHIP PROMOTION

By: Robert Schatz

We are continuing to have a strong year for membership with 2 new members this last month! We want to give a warm welcome to Dee Brower of AAON and Erik Tietz of RAE Corporation. That brings our gross total for the year to 9 new members. We need your help to keep this momentum rolling. If you have coworkers or work associates that could benefit from being a member of ASHRAE please encourage them to join.

If you are an active student member the “[Smart Start](#)” program gives you a cost effective transition to associate membership. There are other programs available for first time members so don't hesitate to encourage potential members to reach out to ask questions. That is what we are here for.



Our chapter participated in the Air Assurance Industry Excellence Show on November 17th this last month. Brian Murray and myself manned our NEOK ASHRAE booth. They had a great turn out and we were able to visit with and share information about ASHRAE with 300+ students in various tech programs around the eastern half of the state. We hope we planted a few seeds.

Society notified our chapter of an important membership drive this month. There are a large number of members whose membership period ends on December 31st. Our chapter did our part and we formed a calling committee reaching out to those members affected in our chapter to renew their membership. If you don't know when your membership renews please take a moment to login to [www.ashrae.org](http://www.ashrae.org) and check your membership status, your renewal date and while you are there check your bio to make sure all the information is correct and up to date. This helps our chapter leadership tremendously.

Robert Schatz can be reached at 918-836-0271 or [robert.schatz@leeandbrowne.com](mailto:robert.schatz@leeandbrowne.com).



# Happy Holidays!





## YEA

**By: Kyle Bowling & Brian Biggerstaff**

We hope all of our ASHRAE Members and YEA Members enjoyed last month's Happy Hour courtesy of Airetech. For the month of January, NEOK ASHRAE YEA will be hosting a happy hour at Buffalo Wild Wings on January 12th from 5:30 pm to 7:30 pm. Grab a friend and be sure to swing by for a drink and some appetizers and come network with your peers.

Corporate sponsorship is an integral part of the success of YEA in our chapter. If you or your company is interested in participating or sponsoring an event please let us know. All support is appreciated.



Kyle Bowling can be reached at 918-825-7222 or [kyleb@rae-corp.com](mailto:kyleb@rae-corp.com).

Brian Biggerstaff can be reached at 918-624-1005 or [bbiggerstaff@eei-ok.com](mailto:bbiggerstaff@eei-ok.com).



## STUDENT ACTIVITIES

**By: Brian Murray**

It's a busy time of year but Robert Schatz and I managed to attend the local "Industry Excellence" show that promotes the field of HVAC and ASHRAE to local high school, Vo-Tech, and trade school students. The industry Excellence show was a huge success. There were well over 100 student who plan on being in the HVAC industry that came by our booth. More than 30 signed up to receive more information and an ASHRAE membership application.

As a reminder to our local student chapters we are encouraging our student chapters to participate in the ASHRAE [Student Design Competition](#). ASHRAE sponsors these competitions to "encourage students to become involved in a profession that is crucial to insuring a sustainable future for our Earth – the design of energy-efficient HVAC systems." If there are members who would be willing to "consult" with the students please contact me for more information.

Don't forget that Society offers many different scholarships for students. Scholarships are awarded based on specific criteria and made available for the academic year following the application deadline beginning with the fall semester. For more information click [here](#).

Brian Murray can be reached at 918-665-6600 or [brian@airetechcorp.com](mailto:brian@airetechcorp.com).



## GRASSROOTS GOVERNMENT ADVOCACY COMMITTEE

By: Chad Smith

I wish you a wonderful Christmas season with family and friends as we approach the coming holidays.

I'm looking for some volunteers to help organize the training seminar on the new 2015 International codes that the city adopted last year. ASHRAE endorses government organizations staying up on current codes and as the local chapter, we want to help facilitate this. Please contact me if you are interested in helping organize this training coming up in February.

It's also not too early to remind you about [E-week](#) coming up that same month, February 19th through 25th, 2017. This will be a week that we as industry professionals will be reaching out to the area students in K-12 grades and promoting the different careers in engineering and specifically promoting the opportunities in the HVAC industry. Please let us know if you are interested in participating in these activities as we are always in need of volunteers.



Do not forget that ASHRAE is a grassroots organization and as such, it is all of our role to educate and advise our public officials on our industry standards. We will be visiting the capitol in March to discuss pertinent issues in our industry with our local legislators to help educate them on how they impact our industry and by extension our businesses and our employees. Please contact me if you are interested in joining us for the Day on the Hill. It is a great experience you won't want to miss.

On that note, ASHRAE has published Public Policy Issue Briefs as well as Position Statements on various current issues that impact our industry. The briefs are published on the website for all to have access to, click on the link to find out more, [ASHRAE Policy Issue Briefs](#).

Chad Smith can be reached at 918-665-6600 or [chad@airetechcorp.com](mailto:chad@airetechcorp.com).



## SUSTAINABILITY

By: Claire Farr

The [Oklahoma Chapter of the Association of Energy Engineers](#) and [Oklahoma Renewable Energy Council](#) are hosting a one-day conference about the changing energy landscape this January called "[Back to the Future II](#)." The January 11th event at OSU-Tulsa will feature a keynote address by Michael Teague, Oklahoma Secretary of Energy and Environment.



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Other sessions include discussions on overcoming first cost in the HVAC market; residential geothermal, solar, and energy efficiency; wind and solar regulations; continuous commissioning, and hiring ESCOs. [Registration](#) is \$30, with discounts for AEEOK and OREC members as well as for students, government, and non-profits.

Don't miss this great opportunity to learn more and contribute to important discussions on many sustainable issues relevant to our industry at this local event.

Clair Farr can be reached at 918-279-6450 or [cfarr@es2ok.com](mailto:cfarr@es2ok.com).



## HISTORY

By: Gene Redford

I will do a history recall this month on one of our life members, who many of you know and have worked with over the years. Jack K. Averitt, Sr. was Born December 22, 1930 in Livingston, TN and Graduated from Livingston Academy 1948, Tennessee Tech, BS Industrial Tech. 1952, Oklahoma A & M, Graduate School 1952-1955. Jack married Carol Casey in Tulsa, OK on 12/22/54, and they have two daughters, one son, and eight grandchildren.

Jack served in the U. S. Navy, 1953 – 1955. He has been a member of the Memorial Bible Church over 30 years and served as Deacon & Elder, he also served as chairman of a mission team.

Jack started his career with Lee C. Moore Corporation in Tulsa as Design Engineer, from 1956 – 1957. Worked for Eggelhof, Inc. from 1957 – 1965, again from 1967 – 1972 as Branch Manager. Jack also worked with J. P. Ashcraft Co. from 1965 – 1967, as Branch Manager.

Jack started AMECO, Inc. as a Manufacturer Rep. business, in 1972, working out of his house, with a card table for a desk and a portable typewriter. He only had three product lines all dealing with the HVAC industry. Two of the original companies, The



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Wing Co. & Advanced Thermal Systems, stayed with him. He added many other products over the many years since. Jack semi retired, but continued to work with his son Keith at AMECO for a few more years at which time Keith took over the business. As many of you know AMECO merged with EEI a couple of years ago. Keith still works with EEI.

Jack joined ASHRAE in 1961, he served as Treasurer in the mid 60's. He is an ASHRAE Life Member.

Over the years Jack has worked with many Engineers, Contractors, Plumbing – Heating Industrial Supply Houses, Hospitals, Oil Companies, etc.

Over the last 40 plus years Jack has enjoyed working with, and meeting so many people. This has been some of his greatest memories.

Gene Redford can be reached at 918-346-0444 or [glredbird@yahoo.com](mailto:glredbird@yahoo.com).



## HONORS & AWARDS

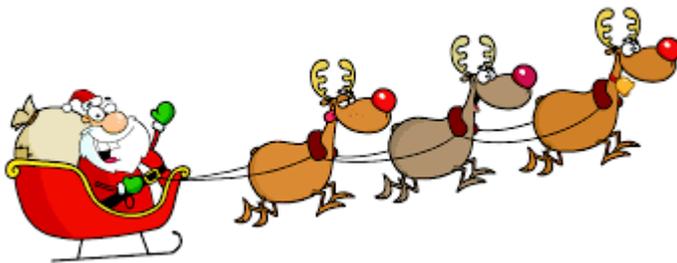
By: Mike Beda

Christmas will be upon us shortly and the first half of the ASHRAE year will be completed at the end of the month. All our chapter activities will steadily increase as we move toward the Chapters Regional Conference in Oklahoma City in late April of next year.

The H & A Committee has received its first application for the Chapter Service Award this year. Thank you, past-president and current BOD member, Chuck Mayfield, for taking the time to update your ASHRAE Bio. The paperwork will be submitted at the April CRC for review and approval by the Region VIII Delegates.

I encourage the current and past Chapter Officers, Board of Governors and Committee Chairs to review and update your Bios and email me a copy for review.

Mike Beda can be reached at 918-664-0312 or [mike@pecook.com](mailto:mike@pecook.com).





## ONLINE COMMUNICATIONS

By: Justin Stonehocker

### Staying Connected

Humans appear to be naturally inquisitive and sometimes even nostalgic about the flurry of day-to-day activities that influence or shape our everyday lives. I think that's one of the reasons that we have been so eager to accept and even embrace new technologies. Whether its the desire to check your current stock prices, or make sure the family pet is not sleeping on the couch while your away from home, we humans seem to find ourselves introducing and utilizing new "connective" technologies more and more.

To some, it is important to "stay connected" to friends and family from both near and far. To others it is important to stay informed and share our thoughts, our feelings, or more importantly share our current standings in fantasy football leagues! But seriously, many of us have come to accept that the Internet Of Things (I.O.T.) is quickly and effortlessly increasing our ability to become more aware of surroundings, our homes and upcoming events in our community. This is probably a contributing factor to the [explosive growth seen by social media platforms](#) like Twitter, Facebook and LinkedIn, which have acquired prolific numbers in new users over the past 5-10 years.

If you are one of those individuals that feels the need to stay connected with current events and the future plans of our ASHRAE chapter, consider following us on [Facebook](#), or join our [LinkedIn](#) group. Also, feel free to stop by our chapter's web site at [www.ashrae-neok.org](http://www.ashrae-neok.org) We would love to help you stay connected with our members and community.

Justin Stonehocker can be reached at 918-279-6450 or [jstonehocker@es2ok.com](mailto:jstonehocker@es2ok.com).



## BOG MEETING MINUTES

By: Brady King

### Board of Governors

**Chapter:** Northeastern Oklahoma Chapter 069

**Meeting Date:** November 10th, 2016

**Attendance:** Jeff Ferguson, Matt Petersen, Mike Beda, Paul Oman, Robert Schatz, Claire Farr, Brian Murray, Robert Boozer, Ray Gomez, Brady King, Chuck Mayfield, Daniel Owens

The NEOK Chapter BOG Meeting was held on November 10th, 2016 at Cyntergy. Chapter President Jeff Ferguson called the BOG meeting to order at 4:45PM. Special thanks to Cyntergy for sponsoring food, Duane Harman for sponsoring wine.

**Old Business:** Meeting minutes submitted and approved as corrected per motion by Mike Beda. Ray Gomez seconded the motion.

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**President:** Jeff Ferguson – Brought up question will chapter pay for Cheyenne Reynolds membership renewal as STEM champion? It can come out of YEA or student activities, mentioned 50% out of each budget. Also mentioned already budgeted. Will report at next BOG.

Meeting minutes approved. Oct BOG and Nov chapter.

We get points sponsoring YEA to national meetings. Investment CRC and training account to be used for this per LeAnna. Dan Owens said surplus money from last CRC was set aside to be used for training. It is in the budget. Do we want to sponsor sending LeAnna and Rachel to the winter meeting. Region VIII meal, ~\$75 meal, transportation, lodging, Rachel no lodging & transportation needed. Benham not paying anything for LeAnna. Kyle and YEA from AAON may go without sponsoring required. Get costs number first and then check what money is available with Nolan.

**CRC Action/PAOE:** LeAnna Reynolds – not in attendance.

**Newsletter:** Matt Petersen – Will be sending out Newsletter next Thursday no matter what. He will need everything by Tuesday so he can send out next Thursday. Misty can help as fall back. He will be gone all Thanksgiving week.

**Treasurer:** Nolan Chance – not in attendance. No written report yet. Chad does have the audit done. Note with date of completion in the meeting minutes.

**Secretary:** Brady King – no new information.

**Attendance/Reception:** Randy Ramsey – not in attendance. Claire delivered info from Randy: November meeting attendance was 54. Randy will begin stating RSVP cutoff time in the Evite. Cutoff time for 5pm the day before the meeting. This should provide adequate time for pulling name tags and drawing \$50 award.

**CTT Chapter Programs:** Andrew Sneed – not present Jeff relayed info - January theme is contractor promotion. Invite code official, to say something about code, permit, etc.. Give the person specific questions prior to the meeting. Acknowledge contractors that RSVP to show up on the PowerPoint. Recognize MCCA and company members that contribute. We need to get word out beforehand to come to the meeting. Another DL in April.

**GGAC:** Chad Smith – not present. Jeff relayed - Has financial audit report done.

**Historian:** Gene Redford – not present, no new info.

**Honors and Awards:** Mike Beda – no new information. Newsletter will be sent out by Monday.

**Membership Promotion:** Robert Schatz – entered PAOE points with LeAnna. Air Assurance event Thursday. Spoke at last meeting for membership promotion. The booth at AA event will be the second membership promotion to get all the PAOE available. 2 new members this month so far.

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**Publicity:** Gina Taylor – not present, no new info.

**Refrigeration:** Robert Boozer – food bank to do a YEA/member event to give back to community. Food bank has a great chef, to possibly incorporate into event. Will research exacts. Possibly do Food Bank in February and actual tour at another site.

**Research Promotion:** Paul Oman – deadline for full circle is 15th. Any board members get extra PAOE reminder. Send Paul name and amounts for the Full Circle so he can fill out the form he has to turn in. Pen's are ordered for Air Comfort technical.

**Special Events:** Ryan Dunkerson & Duane Harman – not present, no new info.

**Student Activities:** Brian Murray – doing Air Assurance show with Robert. Speaking in December.

**Sustainability:** Claire Farr – nothing has worked out with Tulsa Children's Museum. Looking into Global Gardens. Will be sometime in the spring. Building Tulsa Together and Hab. for Humanity difficult to coordinate. Jeff mentioned Crossover community impact, Justin Pickard for Urban Renewal as possible option.

**Directory/Website:** Justin Stonehocker – not present, no new info.

**STEM YEA:** Cheyenne Reynolds – sending Matt info for newsletter. Sent STEM info to Brian to coordinate.

**YEA:** Brian Biggerstaff & Kyle Bowling – not present, no new info.

BOG meeting was adjourned at 5:56 PM.



## CHAPTER MEETING MINUTES

By: Brady King

### Chapter Meeting

**Chapter:** Northeastern Oklahoma Chapter 069

**Meeting Date:** December 7th, 2016

The NEOK Chapter Meeting was held on Wednesday, December 2nd, 2016 at Ti Amo.

Members checked in and began the food line at 11:30am. Pam Dunlap directed the pledge and gave the blessing over the food. The drawing was conducted for the RSVP prize with the winner being Paul Oman. The half pot drawing was conducted by Gene Redford. There were no winners at this month's meeting.

Chapter President Jeff Ferguson called the meeting to order at 11:53am. After Jeff acknowledged the guests and attending consulting engineers, Brian Murray handed out awards for last years top chapter sponsors and recognized others that gave. Mike Beda then recognized Joel Karstetter and Chad Smith for the Chapter Service Award. Mike then recognized Dan Owens work for the society judging newsletters which he received a Regional Award. Jeff also recognized LeAnna for her award as Outstanding Past President. Paul Oman, ASHRAE Re-

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search chair, reminded those with outstanding bills from the golf tournament to contact him.

Andrew Sneed introduced our meeting speaker Ron Wendorski from Greenheck. Ron spoke about sound control in HVAC. He also gave background explanation of sound measurement, what decibels are, why we use them and how to add them. Ron concluded by spending a few minutes answering questions from the audience.

After the speaker Jeff gave reminders about the next BOG meeting, the next chapter meeting coming right after the holidays on January 4th with an ASHRAE Distinguished Lecturer and the Research Auction in February. Jeff closed the meeting and asked everyone to turn badges in on the way out.

Meeting adjourned at 12:50pm



## ASHRAE SOCIETY NEWS

By: Matt Petersen

Merry Christmas! Happy New Year! By the time this newsletter is out you should have all your Christmas shopping done, if not even Amazon.com can't help you! This time is hard for all of us trying to finish up year end projects, preparing for the holidays, dining with friends and family and colleagues and co workers. It also is a time when our pocketbooks are stretched to the limit. So be thrifty when shopping, use coupons, use smartphone apps, do what you need to do to keep those expenses to a minimum. Think in just a few months we all will be paying taxes!

### Society News / Press Releases (for more detailed information please select the link)...

- **Free Residentially-Focused Sessions Offered by ASHRAE at AHR Expo** - An in-depth look at ASHRAE's work in the residential market as well as guidance on several aspects of residential design is offered in four free seminars at the [2017 AHR Expo...](#)
- **Overview of New Classes of Refrigerants Offered at ASHRAE 2017 Winter Conference** - More than 160 refrigerants are maintained under ASHRAE's refrigerant classification standard, and that list continues to grow as the industry's need for [new refrigerants increases...](#)
- **Smart Grid Standard Adopted by International Organization for Standardization** - A smart grid standard published earlier this year by ASHRAE and the National Electrical Manufacturers Association (NEMA) has been approved as an International Organization for Standardization [\(ISO\) standard...](#)
- **New Duct Sizing Calculator Available** - A new duct sizing calculator from ASHRAE and the Air Distribution Institute (ADI) allows HVAC air distribution system designers to more accurately size ducts, especially flex ducts under varying amounts of compression, [based on research results...](#)

### Upcoming Training

- **3-day HVAC Design: Level I – Essentials** - Dallas TX, Feb 6-8, for more info click [here...](#)
- **2-day HVAC Design: Level II – Application** - Dallas TX Feb 9-10, for more info click [here...](#)

Matt Petersen can be reached at 918-665-6600 or [matt.petersen@airetechcorp.com](mailto:matt.petersen@airetechcorp.com).



## ASHRAE HVAC Design & Operation Training DALLAS



Level I & II Training Offered – Register for Both and Save

### HVAC Design: Level I – Essentials

**When:** February 6 - 8, 2017 | Dallas, TX

**Cost:** \$1,264 (ASHRAE Member: \$1,009)

**Company Discount:** Enroll 3 or more participants from the same company at the same time and SAVE!

**REGISTER NOW & SAVE \$50**

ASHRAE's HVAC Design: Level I – Essentials provides intensive, practical training for HVAC designers and others involved in the delivery of HVAC services. In three days, gain practical skills and knowledge in designing and maintaining HVAC systems that can be put to immediate use.

- Fundamentals
- Heating/Cooling Load Calculation
- System Selections
- HVAC System and Components
- Cooling System
- Basic Design of Hydronic Systems
- Basic Design of Air Systems
- Control/BAS

**BONUS!** Get a FREE copy of *STANDARD 189.1-2014* and *User's Manual!* A \$200 Value!



## ASHRAE HVAC Design & Operation Training DALLAS



Level I & II Training Offered – Register for Both and Save

### HVAC Design: Level II – Applications

**When:** February 9 - 10, 2017 | Dallas, TX

**Cost:** \$854 (ASHRAE Member: \$699)

**Company Discount:** Enroll 3 or more participants from the same company at the same time and SAVE!

REGISTER NOW & SAVE \$50

Register for **BOTH** training sessions to save money and fast track your experience level!

ASHRAE's HVAC Design: Level II – Applications provides instruction on HVAC system designs for experienced HVAC designers and those who complete the HVAC Design: Level I – Essentials training. In two days, gain an in-depth look into Standards 55, 62.1, 90.1, 189.1 and the Advanced Energy Design Guides. Training will focus on a range of topics including: HVAC equipment and systems, energy modeling, designing a chiller plant, and BAS controls.

- Sustainability/Green/LEED/HPB/NZEB
- Standard 55
- Standard 62.1
- Building Systems: Education Facility
- System Applications: Chiller/Boiler, Air Handlers, VAV Terminals
- Life Cycle Cost
- Building Systems: Multi-story Office Building
- Water-to-Water GSHP Option 1 Chilled Beam with DOAS
- Water-to-Water GSHP Option 2 UFAD

**BONUS!** Get a FREE copy of *ASHRAE GreenGuide: Design, Construction, and Operation of Sustainable Buildings, 4th. ed.* A \$100 Value!



*The Oil Capital Air*  
 Newsletter of the NEOK Chapter of ASHRAE Region VIII

## NEOK Booster Ticket Application

<u>Option</u>	<u>Name / Firm</u>	<u>Qty</u>	<u>Price</u>	<u>Total Price</u>
Individual Booster Ticket			@ \$175	\$
Corporate Booster Ticket			@ \$200	\$
Corporate Booster Meals			@ \$25	\$
Student Booster Ticket			@ \$175*	\$
Student Booster Meals			@ \$25*	\$
<b>Total Paid:</b>				\$

\* Tax deductible donation for the benefit of the Chapter

Company Name: \_\_\_\_\_ Contact Person: \_\_\_\_\_

Street Address: \_\_\_\_\_ Phone Number: \_\_\_\_\_

City, State, Zip: \_\_\_\_\_ Email Address: \_\_\_\_\_

Make checks payable to: **NEOK ASHRAE**

Mail checks to:  
**NEOK ASHRAE**  
**PO Box 52746**  
**Tulsa, OK 74152**

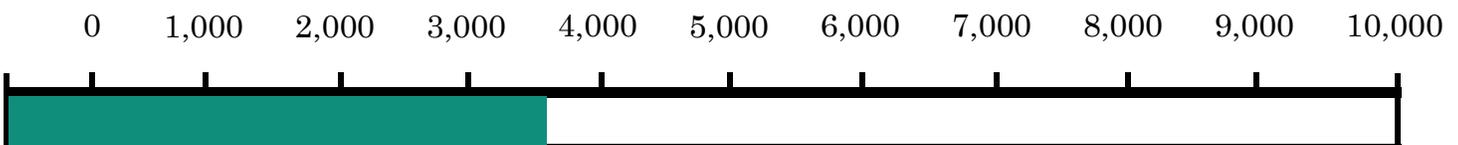


## 2016/2017 Programs

Date	Main Program	Speaker	Theme and Special Guests
09/08/2016 Lunch	Golf Tournament at The Canyons at Blackjack Ridge	Golf Tournament at The Canyons at Blackjack Ridge	Golf Tournament at The Canyons at Blackjack Ridge
10/05/2016 Lunch	Adaptive Defrost Control in Refrigeration	John Whitworth KE2Therm Solutions	Membership Promotion & Refrigeration
11/02/2016 Lunch	Commercial Equipment Efficiency Updates	Gus Faris Nailor Industries, Inc.	Research Promotion
12/07/2016 Lunch	Sound Control in HVAC	Ron Wendorski Greenheck Fan Corp.	Consulting Engineers Promotion
01/04/2017 Lunch	Application of CFD for Built Environment	Dr. Kishor Khankari AnSight, LLC	Donor Recognition & Contractors Promotion
02/02/2017 Dinner	Annual Research Auction	Annual Research Auction	Annual Research Auction
03/01/2017 Lunch	State of Engineering in Oklahoma	TBD	Student & YEA Night
04/06/2017 Dinner	ANSI/ASHRAE Standard 188	Patricia Graef Munters & ASHRAE Dist. Lecturer	Past Presidents & Scholarship Night
05/03/2017 Lunch	DOE & ASHRAE 90.1 for the Pump Industry	Del Neubauer Xylem, Inc.	Awards & Installation of Officers

If you know of any unique projects, including bEQ ratings, let us know so we can share them with others and get PAOE points for our chapter. Also, if you want to get involved or to sponsor an event, contact us at [sneed@phillipsgomez.com](mailto:sneed@phillipsgomez.com).

## 2016/2017 NEOK PAOE Points





## 2016/2017 Calendar of Events

### Important Dates

August 18, 2016  
September 8, 2016  
September 15, 2016  
September 22, 2016  
October 5, 2016  
October 13, 2016  
October 22, 2016  
October 27, 2016  
November 2, 2016  
November 10, 2016  
December 7, 2016  
December 15, 2016  
January 4, 2017  
January 12, 2017  
January 28-31, 2017  
February 2, 2017  
February 9, 2017  
February 19-25, 2017  
March 1, 2017  
March 9, 2017  
April 6, 2017  
April 13, 2017  
April 27-29, 2017  
May 3, 2017  
May 11, 2017  
May 18, 2017  
June 8, 2017  
June 22, 2017  
June 24-28, 2017

### Meeting

Board of Governors  
Chapter Golf Tourney  
Board of Governors  
STEM Exploratorium  
Chapter Meeting (Lunch)  
Board of Governors  
Bier Barrel Race w/YEA  
AEEOK & NEOK Tradeshow  
Chapter Meeting (Lunch)  
Board of Governors  
Chapter Meeting (Lunch)  
Board of Governors  
Chapter Meeting (Lunch)  
Board of Governors  
ASHRAE Winter Meeting  
Chapter Meeting (Dinner)  
Board of Governors  
National E-Week  
Chapter Meeting (Lunch)  
Board of Governors  
Chapter Meeting (Dinner)  
Board of Governors  
CRC  
Chapter Meeting (Lunch)  
Board of Governors  
Spring Shooting Event  
YEA Poker Night  
Board of Governors/LRP  
ASHRAE Annual Meeting

### Location

Cyntergy  
The Canyons at Blackjack Ridge  
Cyntergy  
Exchange Center  
Ti Amo Ristorante  
Cyntergy  
Tulsa Oktoberfest Grounds  
Tulsa Southern Hills Marriott  
Ti Amo Ristorante  
Cyntergy  
Ti Amo Ristorante  
Cyntergy  
Las Vegas, NV  
Ti Amo Ristorante  
Cyntergy  
Worldwide  
Ti Amo Ristorante  
Cyntergy  
Ti Amo Ristorante  
Cyntergy  
Oklahoma City, OK  
Ti Amo Ristorante  
Cyntergy  
TBD  
TBD  
TBD  
Long Beach, CA

For any correspondence using postal service please send to:

NEOK ASHRAE  
P.O. Box 52746  
Tulsa, OK 74152





## 2016/2017 Chapter Volunteers

### Officers

President	Jeff Ferguson	918-877-6000
President-Elect	Matt Petersen	918-665-6600
Treasurer	Nolan Chance	918-664-0312
Secretary	Brady King	918-493-2712

### Voice

### Email

<a href="mailto:jferguson@cyntergy.com">jferguson@cyntergy.com</a>
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<a href="mailto:nolan@pecook.com">nolan@pecook.com</a>
<a href="mailto:brady@martinengineeringdesign.com">brady@martinengineeringdesign.com</a>

# Thank You!



# Thank You!

### Board of Governors

BOG	Chuck Mayfield	918-624-1005	<a href="mailto:cmayfield@eei-ok.com">cmayfield@eei-ok.com</a>
BOG	Dan Owens	918-270-1414	<a href="mailto:owens.d@mcintoshservices.com">owens.d@mcintoshservices.com</a>
BOG	Robert Schatz	918-836-0271	<a href="mailto:robert.schatz@leeandbrowne.com">robert.schatz@leeandbrowne.com</a>
BOG	Ray Gomez	918-584-0102	<a href="mailto:gomez@phillipsgomez.com">gomez@phillipsgomez.com</a>
BOG	Mike Beda	918-664-0312	<a href="mailto:mikebeda1945@yahoo.com">mikebeda1945@yahoo.com</a>

### Committee Chairs

CRC Delegate	LeAnna Reynolds	918-599-4120	<a href="mailto:leanna.reynolds@benham.com">leanna.reynolds@benham.com</a>
CRC Alternate	Jeff Ferguson	918-877-6000	<a href="mailto:jferguson@cyntergy.com">jferguson@cyntergy.com</a>
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Audit	Chad Smith	918-665-6600	<a href="mailto:chad@airetechcorp.com">chad@airetechcorp.com</a>
CTT/Programs	Andrew Sneed	918-584-0102	<a href="mailto:sneed@phillipsgomez.com">sneed@phillipsgomez.com</a>
GGAC	Chad Smith	918-665-6600	<a href="mailto:chad@airetechcorp.com">chad@airetechcorp.com</a>
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K-12 STEM	Cheyenne Reynolds	918-224-6560	<a href="mailto:creynolds@sapulpaps.org">creynolds@sapulpaps.org</a>
Membership Promotion	Robert Schatz	918-836-0271	<a href="mailto:robert.schatz@leeandbrowne.com">robert.schatz@leeandbrowne.com</a>
Newsletter	Matt Petersen	918-665-6600	<a href="mailto:matt.petersen@airetechcorp.com">matt.petersen@airetechcorp.com</a>
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Research Promotion	Paul Oman	918-249-1918	<a href="mailto:poman@federalcorp.com">poman@federalcorp.com</a>
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YEA Co-Chair	Brian Biggerstaff	918-624-1005	<a href="mailto:bbiggerstaff@eei-ok.com">bbiggerstaff@eei-ok.com</a>