



TABLE OF CONTENTS

- [President's Message](#)
- [Research Promotion](#)
- [Refrigeration](#)
- [Chapter Technology Transfer](#)
- [Treasurer Report](#)
- [Special Events](#)
- [GGAC](#)
- [Honors & Awards](#)
- [History](#)
- [Student Activities](#)
- [Membership Promotion](#)
- [YEA](#)
- [Meeting Minutes](#)
- [NEOK Season Pass](#)
- [Calendar](#)
- [Chapter Volunteers](#)

UPCOMING EVENTS

- **November 6th:** Chapter Meeting (Lunch) at Tulsa Country Club
- **November 14th:** Board of Governors (Location TBA)

President's Message

Welcome!

Energy efficiency, renewable energy, sustainability, net zero, climate change, global warming, greenhouse gas, etc. We see and hear about these topics every day in the news, on the internet, and on social media. Do you think we as an industry need to do more or do less when it comes to these topics? How do we find a balance when addressing these topics in the world we live in for the "built environment?" This is our profession and industry. We should be the leaders.

How concerned do you think people living in Oklahoma versus California are on these topics? What about people from a small town like Fairview, OK, where I grew up, compared to Los Angeles, CA? Fairview has a population of 2,579 in about four square miles or 645 people per square mile. Once you leave Fairview, you drive through the country and it is a 40-minute drive before you find another town with a larger population. Los Angeles has a population of 3.8 million in about 469 square miles or 27,000 people per square mile. Once you leave Los Angeles, you have a continuum of the population and the more rural countryside can take several hours to reach.

In my opinion, Fairview does not have things like smog. Is that still a term used today? It seems like smog has been abandoned and replaced with more catastrophic terms like global warming and climate change. People in Fairview are not overly concerned about smog because it is not an everyday occurrence or concern. People in Los Angeles on the other hand, have major concerns with smog. It impacts their daily life. They see the smog lingering over their city and are forced to breathe this highly polluted air. The burning of fossil fuels for heating, electric power and transportation all contribute to this smog in their city. It is fair to say that in their minds, fossil fuels are bad, because they contribute so much to the daily smog.

If you drive out to Fairview from Tulsa, you will notice something along the way that did not exist ten years ago, wind turbines. Once you hit the I-35 corridor and head west, the wind turbines are a very prevalent part of the Oklahoma landscape nowadays. As the Oklahoma song goes, this is where the wind comes sweeping down the plains. Many of the people that live out in western Oklahoma tend to think the wind turbines are bad. Why? It impacts their daily life. They see the wind turbines cluttering their beautiful landscape and in their minds, wind turbines are bad. Natural gas is abundant in western Oklahoma. People favor natural gas for heat and electrical power more than they probably do for wind turbines.



Duane Harman Chapter President



## President's Message, continued

Does it make you wonder, "Where does ASHRAE fit into all of this? Where is he going with this message?" Berkeley, CA has recently banned the use of natural gas in all new building permits. The claim is that energy use in buildings accounts for about 25% of the greenhouse gas emissions. If California is to meet its goal of 100% zero-carbon energy by 2045, the use of fossil fuels will have to be replaced with alternate energy sources. This begs the question, is it possible to eliminate the use of fossil fuels for such a dense population? Maybe, but it will bring along other issues like those experienced out in western Oklahoma. They will need more solar panels and wind turbines and more than likely some form of energy storage devices. Californians may be willing to make this sacrifice in order to have clean air.

The northeastern United States is also experiencing a strong push to remove fossil fuels as a source of heat in favor of heat pumps, since they are experiencing the same problem as California. I understand the need to reduce air pollution. Does every city and state in the country need to jump on board with the elimination of fossil fuels for heating? What about the big picture, should we do this globally?

This is where our industry, our country, and our world needs ASHRAE. We need ASHRAE to lead as a professional society for our industry to make sure we have a voice at the table when cities, states, and the federal government make decisions regarding our energy use and the future of energy itself. This especially true in the "built environment." We need to make sure we have a balance in determining what is good for all. ASHRAE will continue to grow globally as the need is the same for the entire world. ASHRAE's Mission Statement is "to serve humanity by advancing the arts and sciences of heating, ventilation, air conditioning, refrigeration and their allied fields." This reflects ASHRAE's desire to lead our industry. ASHRAE's Vision statement is "a healthy and sustainable built environment for all." This ties all of it together. This is why we need to support ASHRAE.

For chapter related items, we have our next meeting on November 6th at 11:30 am at the Tulsa Country Club. Please RSVP when you receive the invitation, so we can give an accurate head count to the TCC. The next BOG meeting will be held on November 14th. The location is undetermined at this point.

Thanks,

*Duane Harman*



**Duane Harman**  
2019-2020 Chapter President  
[DuaneH@aaon.com](mailto:DuaneH@aaon.com)



## RESEARCH PROMOTION

By Kristin Long

To date our chapter has raised \$12,300.00 of our goal of \$40,000.00. That is a great start.

Also, for anyone who has not yet done so, we will still need the chapter leadership (President, President-Elect, Treasurer, Secretary and RP Chair) to make their contributions to get our chapter PAOE points for Full Circle and Full Circle Plus. This milestone for Full Circle is November 15<sup>th</sup>.

Our next milestone is to reach at least 30% of our goal by December 31st. For those of you that need tax deductions this year, ASHRAE is a great place to get them while supporting the organization that for all intents and purposes supports almost all of our professional careers through the Standards they provide. You can make your contributions online at:

<https://xp20.ashrae.org/secure/researchpromotion/rp.html>



**Kristin Long**  
918.382.6276  
[kristinl@aaon.com](mailto:kristinl@aaon.com)

## REFRIGERATION

By Eric Mulliniks

We are working on planning a refrigeration tour at AAON's Norman Asbjornson Innovation Center (NAIC) for this spring. If you would like to help plan this or any other refrigeration-related events please contact me.

**Eric Mulliniks**  
918.382.6432  
[ericm@aaon.com](mailto:ericm@aaon.com)



## CHAPTER TECHNOLOGY TRANSFER

By Matthew Simmons

Thank you to everyone who turned out to our first chapter lunch meeting of the 2019-2020 season. We had a great turnout with a few new faces to kick things off. I hope everyone enjoyed Mark Hamilton's presentation on Commercial Kitchen Ventilation systems and gained some useful information regarding kitchen hoods, make-up air units, and kitchen hood exhaust fans. I would like to thank Mark for his presentation.

For our next chapter lunch meeting we will be welcoming back one of ASHRAE's Distinguished Lecturer's, Pam Duffy P.E., who will be presenting on "Time Management for the Perpetually Busy Engineer". Pam is a licensed Professional Engineer with a mechanical engineering degree from the University of Central Florida. With over 10 years of experience in the HVAC industry, Pam works to bring new HVAC products to life. As a seasoned Product Manager, she has been responsible for strategic direction, product roadmaps, new product development, launches and sunsets, and ongoing product category support. Pam has also served on several boards and committees in ASHRAE.

So make room in your perpetually busy schedules and mark your calendars for November 6th at 11:30am for our next lunch meeting at Tulsa Country Club (701 N. Union Ave). Please RSVP and bring a guest, we will see you there.

### Call for Submissions:

If you have applied innovative building design in the areas of occupant comfort, indoor air quality and energy conservation that incorporate ASHRAE standards for Effective energy management and IAQ you should submit your design for the ASHRAE's annual Technology Award Program. By submitting your design you and your client, if selected, could be Recognized by ASHRAE for your innovative technological concepts. Each year the Society may present awards in six categories: Commercial Buildings, Institutional building, Health Care Facilities, Industrial Facilities or Processes, Public Assembly, and Residential. If you would like more information on this program please [visit the ASHRAE website](#).

### 2020 ASHRAE Winter Conference:

Online registration is open for the 2020 ASHRAE Winter Conference courses held in Orlando, FL on February 1-5. Visit the link for more details please [visit the ASHRAE website](#).

If you cannot make it to Orlando there are still a couple fall 2019 online courses available. Please [visit the ASHRAE website](#) for this and other ASHRAE training opportunities.



**Matthew Simmons**  
918.417.9953  
[msimmons@eda-fki-engineers.com](mailto:msimmons@eda-fki-engineers.com)





TREASURER REPORT

By Steve Uerling

Net Worth—As of 10/31/19

(Includes unrealized gains)
As of 10/31/19

Table with 2 columns: Account, October 2019. Rows include Assets (\$83,308.95), Cash (\$55,835.60), Savings (\$27,469.79), Investments (\$3.56), Liabilities (\$0.00), and Net Worth (\$83,308.95).

If you haven't done so already, please consider purchasing a chapter meeting Season Pass, formerly known as Booster Ticket. For \$200, the pass covers meals at all eight regular meetings. It is not tied to one person, so passes can also be used to bring guests to meetings. Companies may purchase multiple passes and allow them to be split among different employees. An added bonus is faster check-in at meetings.



Steve Uerling
918.836.0271
steve.uerling@leeandbrowne.com

SPECIAL EVENTS

By Kristin Long

Our next fundraising event is the Annual Research Auction and it will be at the Tulsa Country Club on February 13th, 2020 at 5:00 pm.

We are currently seeking donation items to auction. If any of you have any donation items please contact me at kristinl@aaon.com or 918-382-6276.



Kristin Long
918.382.6276
kristinl@aaon.com



## GGAC

By Garen Ewbank

Recently, four chapter members participated in the September OUBCC meeting to pursue updated building energy codes. We really hit a nerve and many have joined in to help. Now we have a tremendous group working on this.

Also, hot off the press is the ACEEE 2019 scorecard for energy efficiency codes, and Oklahoma is nowhere near Gov. Stitt’s push to be in the Top 10. You can read more [online at ACEEE](#).

About the report, from ACEEE:

The 13th edition of the ACEEE State Energy Efficiency Scorecard is a progress report on state policies and programs that save energy while producing environmental and economic benefits. We use data vetted by state energy officials to rank states in six categories—utility programs, transportation, building energy codes, combined heat and power, state initiatives, and appliance standards.



**Garen Ewbank**  
405.826.8156  
[gewbank@geotctest.com](mailto:gewbank@geotctest.com)

## HONORS & AWARDS

By Mike Beda

Take a couple of minutes to go on line at [www.ASHRAE.org](http://www.ASHRAE.org) and review the website. From the ASHRAE Insights and the Journal, you know we are gearing up for the Winter Meeting and Expo in Orlando. The website has or will have details about all the upcoming meeting and events (show times, meeting schedules, social events, learning and certification programs, etc.). I hope you plan to attend.

While you are at the site, look through the Honors & Awards section and see what is going on there. You may not be eligible for an award yet, but you may know someone who may qualify. If you think of someone, contact me and we can review the criteria and then approach the prospective member to ask if we can put their name forward.



**Mike Beda**  
918.706.8309  
[mikebeda1945@yahoo.com](mailto:mikebeda1945@yahoo.com)



HISTORY

By Gene Redford

Chapter History 1990's

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
- 1998-99 Gene Redford
- 1999-00 Keith Browne

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.

This article was originally published 10 years ago, in the November 2009 issue of the Oil Capital Air.



Gene Redford
918.346.0444
glredbird@yahoo.com



## STUDENT ACTIVITIES

By Jacob Koch

Jacob Koch here with a Student Activities update. On Monday, October 28, 2019, I gave a presentation at 4:30 PM on the OSU-Tulsa in the HRC building. I discussed the HVAC industry, the importance of ASHRAE, and the scholarships offered through ASHRAE. If anyone would like to contribute presentations like these, then contact me at 918-836-0271.

A reminder that there are three scholarships available through NEOK ASHRAE. NEOK college student scholarships are given to two Tulsa area college students each year. Both students will be selected from applications received from either the University of Tulsa, Oklahoma State University-Tulsa, or Oklahoma State University-Okmulgee. The scholarship amounts are \$800 each for two recipients. Also there is a \$1000 scholarship in the name of Tulsa engineer Jack E. Tumilty (Jack E. Tumilty Scholarship) to a Tulsa metropolitan area graduating high school senior who will be entering the study of mechanical engineering at a college of their choice in the fall. The scholarships are awarded yearly at the April NEOK ASHRAE chapter meeting. I will be handing out flyers promoting these scholarships at colleges and high school. If anyone knows any students that would be a good candidate for the scholarships, then direct them to the NEOK ASHRAE website.



**Jacob Koch**  
918.836.0271  
[Jacob.Koch@LeeandBrowne.com](mailto:Jacob.Koch@LeeandBrowne.com)

## MEMBERSHIP PROMOTION

By Eric Mulliniks

Is your ASHRAE membership current? If you aren't sure when you need to renew your membership, you can log in anytime to [www.ASHRAE.org](http://www.ASHRAE.org) to review your membership status, renewal period, contact preferences, and biographical information. If you have never made an account at [www.ASHRAE.org](http://www.ASHRAE.org) or have forgotten your password, they make it very easy to gain access using your primary email address. By keeping your membership current, you are helping support ASHRAE's work on critical industry standards and research as well as our local chapter activities. Thank you!

**Eric Mulliniks**  
918.382.6432  
[ericm@aaon.com](mailto:ericm@aaon.com)





Tulsa, Oklahoma

Newsletter of the NEOK Chapter of ASHRAE Region VIII

www.ashrae.org | www.ashrae-neok.org

Vol. LX | Issue 3

Nov. 2019

YEA

By Jason Blair

Thank you to all who participated in this year's YEA Linde Oktoberfest Night. We had a great turnout for our first event of the year from our ASHRAE chapter. Be on the lookout for information regarding future YEA events.

Please reach out to [jblair@harrisonenergy.com](mailto:jblair@harrisonenergy.com) to find out how to get involved with your YEA chapter!



Our NEOK ASHRAE YEA group at Oktoberfest 2019



Jason Blair  
918.232.7654  
[jblair@harrisonenergy.com](mailto:jblair@harrisonenergy.com)

Mark your calendars now for CRC!  
April 23-25, 2020 in Houston, Texas



ASHRAE® REGION VIII



MEETING MINUTES

By Keith Averitt

Recording of Minutes

Chapter: Northeastern Oklahoma Chapter 069

Meeting Date: September 19, 2019

Meeting: September 2019 BOG

Attendance:

Compiled By: Keith Averitt

Attendees: Jason Blair, Matt Simmons, Pam Dunlap, Steve Johnson, Erik Mulliniks, Claire Farr, Chad Smith, Ray Gomez, Nolan Chance, Steve Uerling, Kristin Long, Duane Harman, Dan Owens, Matt Peterson, Keith Averitt

The NEOK March BOG Meeting was held at McNellies South. Chapter President Duane Harman called the meeting to order at 4:03 PM.

President: Duane Harman

- Need MBOs
Looking to setup Basecamp àNolan know how to access it
Trouble accessing Google Drive
Need to get officers to BOK to sign up on account
Accounting for last year almost complete
Current books are being worked on by Claire
Articles for newsletter are due by 9/25
Need headshots
Discussed ASHRAE golf outing and distribution of funds. 2 teams haven't paid, Steve U will send list out to those who haven't paid yet
Discussed moving golf start time next year up to 10:00am
New budget has been increased from \$3 to \$ per member
Need to get budget set before next meeting.
Per Chad Smith, Duane will lookup and update CIQ's. He will send to Vicky Grant and she will update
Chad Smith gave update on Paul Oman – he is going much better

President Elect: No update

CRC Action/PAOE: No update

Newsletter: No update

Treasurer: .No update

Secretary: No update



MEETING MINUTES

By Keith Averitt

**Attendance/Reception:** Pam Dunlap

- Discussed contractor attendance at meetings, and how to improve
- \$50 gift card draw for those registered lunches - Steve U to get bulk QT cards for the year. Motion: Steve Johnson, Seconded: Dan Owens

**CTT Chapter Programs:** No update

**Honors and Awards:** No update

**Membership Promotion:** . Erik Mulliniks

- 198 current members
- 5 members currently in grace period
- Presented growth goal of 2% (4 people)
- Duane H gave ASHRAE presentation to 34 OSU-Tulsa engineering students during AAON tour

**Research Promotion:** No update

**Student Activities:** No update

**Special Events:** No update

**Sustainability:** No update

**Electronic Communication:**

- Matt P has passwords for NEOK Ashrae website and is looking into a different website hosting company
- Need to get calendar items on website
- Switching over to Basecamp

**YEA:** Jason Blair

- Jason B. is planning an Octoberfest event in conjunction with ASPE, and is looking for corporate sponsors
- Jason B. said he is planning on quarterly events

**K-STEM:** No update

**GGAC:** No update

**New Business:** Matt Simmons:

All spots filled for 2019-2020 speaking engagements, but looking for 5/20 spot to fill  
 All meetings will be held at Tulsa Country Club  
 Need to remind TCC to have American flag present for all chapter meetings  
 Need to have sign up list for PDHs

Meeting was adjourned at 5:25 pm.



**Keith Averitt**  
 918-624-1005  
[kaveritt@eei-ok.com](mailto:kaveritt@eei-ok.com)



# NEOK Season Pass Order Form

<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







# 2019/2020 Chapter Volunteers

## Officers

President	Duane Harman	918-382-6173	<a href="mailto:duaneh@aaon.com">duaneh@aaon.com</a>
President Elect	Claire Farr	918-279-6450	<a href="mailto:cfarr@es2ok.com">cfarr@es2ok.com</a>
Treasurer	Steve Uerling	918-836-0271	<a href="mailto:steve.uerling@leeandbrowne.com">steve.uerling@leeandbrowne.com</a>
Secretary	Keith Averitt	918-624-1005	<a href="mailto:kaveritt@eei-ok.com">kaveritt@eei-ok.com</a>

## Board of Governors

BOG	Brian Biggerstaff	918-219-4030	<a href="mailto:bbiggerstaff@eei-ok.com">bbiggerstaff@eei-ok.com</a>
BOG	Dan Owens	918-270-1414	<a href="mailto:owens.d@mcintoshok.com">owens.d@mcintoshok.com</a>
BOG	Ray Gomez	918-584-0102	<a href="mailto:gomez@phillipsgomez.com">gomez@phillipsgomez.com</a>
BOG	Mike Beda	918-706-8309	<a href="mailto:mikebeda1945@yahoo.com">mikebeda1945@yahoo.com</a>
BOG	Steve Johnson	918-935-1266	<a href="mailto:sjohnson@ocem.us.com">sjohnson@ocem.us.com</a>

## Committee Chairs

CRC Delegate	Nolan Chance	918-877-6000	<a href="mailto:nolanc@midwestmachinery.net">nolanc@midwestmachinery.net</a>
CRC Alternate	Duane Harman	918-382-6173	<a href="mailto:duaneh@aaon.com">duaneh@aaon.com</a>
Attendance/Reception	Pam Dunlap	918-587-4747	<a href="mailto:pbdunlap@matrixae.com">pbdunlap@matrixae.com</a>
Audit	Chad Smith	918-665-6600	<a href="mailto:chad@airetechcorp.com">chad@airetechcorp.com</a>
CTT/Programs	Matt Simmons	918-258-6890	<a href="mailto:msimmons@eda-fki-engineers.com">msimmons@eda-fki-engineers.com</a>
GGAC	Garen N. Ewbank	405-826-8156	<a href="mailto:gewbank@geotctest.com">gewbank@geotctest.com</a>
Historian	Gene L. Redford	918-346-0444	<a href="mailto:glredbird@yahoo.com">glredbird@yahoo.com</a>
Honors & Awards	Mike Beda	918-706-8309	<a href="mailto:mikebeda1945@yahoo.com">mikebeda1945@yahoo.com</a>
Invocations	David Lam	918-250-5590	<a href="mailto:david.lam@omnimechanical.net">david.lam@omnimechanical.net</a>
K-12 STEM	Cheyenne Reynolds	918-224-6560	<a href="mailto:creynolds@sapulpaps.org">creynolds@sapulpaps.org</a>
Membership Promotion	Eric Mulliniks	918-382-6432	<a href="mailto:ericm@aaon.com">ericm@aaon.com</a>
Newsletter	Claire Farr	918-279-6450	<a href="mailto:cfarr@es2ok.com">cfarr@es2ok.com</a>
Nominating	Joel Karstetter	918-665-3974	<a href="mailto:jkarstetter@abscompanies.com">jkarstetter@abscompanies.com</a>
Publicity / Social Media	Kristin Long	918-382-6276	<a href="mailto:kristinl@aaon.com">kristinl@aaon.com</a>
Refrigeration	Eric Mulliniks	918-382-6432	<a href="mailto:ericm@aaon.com">ericm@aaon.com</a>
Research Promotion	Kristin Long	918-382-6276	<a href="mailto:kristinl@aaon.com">kristinl@aaon.com</a>
Special Events Co-Chair	Duane Harman	918-382-6173	<a href="mailto:duaneh@aaon.com">duaneh@aaon.com</a>
Special Events Co-Chair	Kristin Long	918-382-6276	<a href="mailto:kristinl@aaon.com">kristinl@aaon.com</a>
Special Events Co-Chair	Ryan Dunkerson	918-430-6793	<a href="mailto:rdunkerson@es2ok.com">rdunkerson@es2ok.com</a>
Student Activities	Jacob Koch	918-836-0271	<a href="mailto:Jacob.Koch@Leeandbrowne.com">Jacob.Koch@Leeandbrowne.com</a>
Sustainability	Stephanie Shaulis	918-858-4942	<a href="mailto:sshaulis@thgenergy.com">sshaulis@thgenergy.com</a>
Webmaster/ECC	Matt Petersen	918-282-7731	<a href="mailto:petersenmatthewe@gmail.com">petersenmatthewe@gmail.com</a>
YEA	Jason Blair	918-232-7654	<a href="mailto:jblair@harrisonenergy.com">jblair@harrisonenergy.com</a>

This newsletter describes the activities of ASHRAE Chapter 069 of the American Society of Heating, Refrigerating, and Air-Conditioning Engineers, Inc. (ASHRAE).

It does not present official positions of the Society nor reflect Society policy.

ASHRAE is not responsible for this content. ©1999 - 2016, ASHRAE Chapter 069 Northeastern Oklahoma