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UPCOMING EVENTS

- **March 4th:**
Chapter Meeting (11:30 a.m. Lunch) at Tulsa Country Club
- **March 10th:**
Board of Governors (4:00 p.m.) at McNellie's South City

President's Message

Welcome!

The new normal is beginning. Will we ever return to the normal we had two months ago before the Coronavirus? Where will this highly contagious virus take us? We have experienced short-term changes in every aspect of our daily lives. What does the long term look like in your mind? Will it be common practice now to wear a mask during flu season in the United States? Will we start implementing social distancing then too? Will businesses require you to wear a facemask and check your temperature prior to entering buildings? Where do we cross the line with fear of something we cannot necessarily control? We know two things about COVID-19. First, it is highly contagious. Second, there are currently no vaccines to help prevent the spread.

Will we as professionals in HVAC industry have to start making infection control considerations in the design and implementation of building operating systems outside of the typical hospital realm? ASHRAE leadership has approved two statements regarding the transmission of SARS-CoV-2 and the operation of HVAC systems during the COVID-19 pandemic and issued an ASHRAE Position Document on Infectious Aerosols. The full document released on April 14, 2020 is found at this link <https://www.ashrae.org/technical-resources/resources>.

Statement #1: Transmission of SARS-CoV-2 through the air is sufficiently likely that airborne exposure to the virus should be controlled. Changes to building operations, including the operation of heating, ventilating, and air-conditioning systems, can reduce airborne exposures.

Statement #2: Ventilation and filtration provided by heating, ventilating, and air-conditioning systems, can reduce airborne concentration of SARS-CoV-2 and thus the risk of transmission through the air. Unconditioned spaces can cause thermal stress to people that may be directly life threatening and that may also lower resistance to infection. In general,

(continued)



Duane Harman
Chapter President



President's Message, continued

disabling of heating, ventilating, and air-conditioning systems is not a recommended measure to reduce the transmission of the virus.

Per an excerpt from the Position Document, "Even the most robust HVAC systems cannot control all airflows and completely prevent dissemination of an infectious aerosol or disease transmission by droplets or aerosols. An HVAC system's impact will depend on source location, strength of the source, distribution of the released aerosol, droplet size, air distribution, temperature, relative humidity, and filtration."

The real point here is can we make a difference with HVAC system designs and help reduce the spread of contagious viruses in the future. Think about the places that instill the immediate fear of catching the dreaded COVID-19, like a commercial airliner, cruise ship, classrooms, churches, auditoriums, restaurants, stores, movie theatres, etc. Did you know that modern planes today have 50% outside air, HEPA filters, and 15-30 air changes per hour? Just ignore the fact that you are packed in there like sardines in a can, and the outside air at 30,000 is extremely cold and dry. If you sit next to an infected/contagious person, unfortunately, your risk goes up, but the HVAC system is designed to limit the potential of spreading the virus throughout the whole plane. Remember from the excerpt above, the design "can reduce airborne exposures," but this does not eliminate them.

COVID-19 has brought many items to the forefront for the people of the United States to consider as we move forward. A novel virus can create a pandemic as the population has no natural built immunity to the new virus. We will see changes in the future to help reduce risk of airborne exposures through HVAC systems. This change will not stop the next pandemic if we have to isolate to flatten the curve, but it will help slow the spread of the virus and help when it is time to resume normal activities. At times, I question why we do not already do so in places like classrooms. If we could reduce the spread of the flu virus each year in classrooms, how much time and money could be saved? Modern technologies available today like UV lights, laminar/passive air distribution systems, and higher levels of filtration can help reduce virus spread. Most of the time, these technologies never make into the HVAC design due to higher upfront cost, operating cost, and increased maintenance considerations.

Moving on to the chapter related items. We do not plan to have regular chapter meetings until the golf outing in September. We are considering rescheduling the annual shooting event to June or July. The BOG met online this month. We are preparing for the online CRC that will take place the last week of May and first week of June.

(continued...)



President’s Message, continued

We will email ballots out to elect our new officers for the next chapter year. As my unintended second Presidency comes to an end, I want to thank the chapter members for their effort and support to make the NEOK Chapter one of the better chapters in the Society. We have a great group of officers in the ranks, and our chapter will be successful over the next four years. Please remember to be active in NEOK ASHRAE and support our future. Volunteer now for a position, or really consider saying yes when asked in the future. Your chapter needs you, the members, to be successful!

Duane Harman



Duane Harman
2019-2020 Chapter President
DuaneH@aaon.com

CHAPTER TECHNOLOGY TRANSFER

By Matthew Simmons

As the 2019-2020 ASHRAE year comes to a close with the unfortunate cancelation of our last couple of meetings and speakers, I look forward to our next ASHRAE year season and hopefully some return to normalcy. I would like to thank everyone who helped me with my first year as CTT chair and a special thanks to all of our chapter members, guest, and speakers who took time to attend our chapter meetings to help promote our industry and share some knowledge about it. Let me know if anyone is missing any PDH certificates for this year’s presentations and I will be sure to get them to you. Thanks again.



Matthew Simmons
918.417.9953
msimmons@eda-fki-engineers.com



GGAC

By Garen Ewbank

As we close our chapter year, the pandemic and our society’s response serve as reminders of the importance of well informed policy making. Thank you to all our members who worked toward informing public officials and improving public policies through our efforts related to building energy codes and our annual day on the hill. We will build upon this momentum next chapter year.



Garen Ewbank
405.826.8156
gewbank@geotctest.com

MEMBERSHIP PROMOTION

By Eric Mulliniks

Thank you to everyone who has renewed their membership lately!

If you don’t know when your membership renews please take a moment to login to www.ashrae.org and check your membership status and renewal date, and while you are there check your bio to make sure all the information is correct and up to date.

Eric Mulliniks
918.382.6432
ericm@aaon.com

REFRIGERATION

By Eric Mulliniks

Our planned refrigeration event for this spring has been cancelled due to the pandemic, but we intend to reschedule for next chapter year. Stay tuned for updates!

Eric Mulliniks
918.382.6432
ericm@aaon.com



TREASURER REPORT

By Steve Uerling

Net Worth — As of 4/30/2020

(Includes unrealized gains)
As of 4/20/2020

Account	April 2020
▼ Assets	\$70,818.20
▼ Cash	\$43,332.16
BOK - Checking	\$24,047.47
BOK - Investment-...	\$19,284.69
▼ Savings	\$27,482.48
Jack Tumilty Schol...	\$27,482.48
▼ Investments	\$3.56
NEOK ASHRAE	\$3.56
Liabilities	\$0.00
Net Worth	\$70,818.20

April 2020



Steve Uerling
918.836.0271

steve.uerling@leeandbrowne.com



HONORS & AWARDS

By Mike Beda

The 2020 Region VIII CRC will be a Virtual meeting this year. The Honors and Award presentations will be held on the morning of June 3rd starting at 8:00 am and concluding about 10:00 am. The meeting is free to all members. I hope you can also take time to attend the Regional H&A and Business Sessions on May 27th and 28th.

Our chapter delegate and alternate, Nolan Chance and Duane Harman, will be promoting 2 nominees for the Chapter Service Award. They will be honored at the next CRC if all the paperwork is in order.

We will keep you updated on awards presented this year in the next newsletter.



Mike Beda
918.706.8309
mikebeda1945@yahoo.com

RESEARCH PROMOTION

By Jason Blair

As we increasingly focus on the HVAC industry's role in preventing virus transmission, ASHRAE's cutting-edge research projects are incredibly valuable. Thank you to everyone who has supported our fundraising efforts to support this research. See you at the golf tournament in the fall!



Jason Blair
918.232.7654
jblair@harrisonenergy.com



STUDENT ACTIVITIES

By Jacob Koch

Jacob Koch here with a Student Activities update. NEOK ASHRAE chapter is proud to announce the winner of the Tumility Scholarship is Kevin Inman. He is the son of Jody and Paul Inman. He graduated from Broken Arrow High School and will attend the University of Tulsa in the fall. At TU, he will major in Mechanical Engineering. He is member of National Honor Society, National Technical Honor Society, and Phi Theta Kappa. He enjoys working on air conditioning units and problem solving. Kevin is a great example of the future, which is why NEOK ASHRAE is excited to offer



Jacob Koch
918.836.0271
Jacob.Koch@LeeandBrown.com

YEA

We look forward to hosting social and educational opportunities for all our YEA members in the fall. Have a great summer!

Brian Biggerstaff
918.232.7654

SOCIAL MEDIA

Stay up to date with chapter activities by following our social media. Click the icons below to see our profiles.



Matt Petersen
918.282.7731
petersenmatthewe@gmail.com



HISTORY

By Gene Redford

I know many of you know of Jack Tumilty. Since we are awarding another Jack Tumilty Scholarship, I found an article that Chick Morse put together in 1995 that explains why we honor this individual for his work in our industry.

Jack was born in Albuquerque, New Mexico, and grew up in Oklahoma City, Oklahoma. After graduating from high school he entered the University of Oklahoma, and in 1944 volunteered for service in the US Army Air Corps as a candidate for Navigator. At the end of World War II he returned to University of Oklahoma and graduated in 1948 with a Bachelor of Science degree in Mechanical Engineering.

Following graduation he worked for several contractors, architects and consulting engineers in Oklahoma City and Little Rock, Arkansas. In 1951 he joined the firm of Collins Engineering Associates in Oklahoma City and was transferred to Tulsa in 1952. In 1956 he was elected Director of the Tulsa office for Collins Engineering Associates and in 1960 was elected Corporate Vice President with full charge of the Tulsa office.

Tumilty resigned from Collins Engineering in 1974 and established his own firm, Tumilty & Associates, Consulting Engineers. In 1980 he temporarily closed his own firm and joined The Benham Group as Vice President and Director of Mechanical Engineering for the offices west of the Mississippi River. He left Benham Group in 1988 and re-established his own firm.

Jack joined (ASHVE) in 1949, just after our chapter was chartered in 1948. He has served the Northeastern Oklahoma Chapter and the Society in many capacities. He served the chapter in all elected offices and was President of the Chapter in 1959-60. While serving as Secretary of the chapter he established the Chapter newsletter, "The Oil Capitol Air."

At the Society level he has served as a member of several committees and as a spokesman for the ASHRAE Standard 90.75. In 1974 he was asked by Society to chair the Standard Project Committee, which was formed to write an ASHRAE standard on "Energy Conservation in New Building Design." The project committee had over 125 members and produced a standard, ASHRAE 90.75, in 16 months. He remained as chairman of the project committee until 1982.

ASHRAE awarded him the Distinguished Service Award and the Society Award of Merit. He was elected a Fellow in 1983. He has received the Regional Award of Merit. He was also a life member of ASHRAE.

Continued...

HISTORY (continued)

By Gene Redford

Jack hired me after my discharge from the Army with no degree and gave me a great opportunity to learn in this industry. He and Bill Collins gave me many training assignments through those early years and got me into ASHRAE. Jack and Tom Owens were my two PE's I needed to approve my certification as an Engineering Technician (NICET) in 1961.



A few Past Presidents, from left to right. Back row- Ed Teis, Ron Spencer, (unknown), Jim McKinney, Jack Tumilty, and Chick Morse. Middle row- Bill Boone, Jay Hambrick, and Sid Simon. Front row- Warren Smith, Richard Shoemaker, Neal



Gene Redford
 918.346.0444
glredbird@yahoo.com



MEETING MINUTES

By Keith Averitt

Recording of Minutes

Chapter: Northeastern Oklahoma Chapter 069

Meeting Date: March 10, 2020

Meeting: March 2020 BOG

Compiled By: Keith Averitt

Attendance:

Attendees: Keith Averitt, Ray Gomez, Matt Simmons, Duane Harman, Steve Uerling, Jacob Koch, Pam Dunlap, Matt Peterson, Steve Johnson

The NEOK March BOG Meeting was held at McNellies South. Chapter President Duane Harman called the meeting to order at 4:11 PM.

President: Duane Harman

- Discussed whether or not funds should be deposited every month?
- Should we allow jackpot funds to be included with payments by members?

President Elect: No update

CRC Action/PAOE:

Newsletter:

Treasurer: .

- Steve Uerling provided Net Worth as of 2/29/20
- Discussed option of having permanent treasurer

Secretary: No update

Attendance/Reception: Pam Dunlap

- Attendance for March meeting was 51 with 36 RSVP's
- Austin Whetstone won \$50 RSVP gift card

CTT Chapter Programs: Matt Simmons

- Advised Reece Robinson of Grundfos will be presenting Packaged Pumping Systems at the April meeting

Honors and Awards: Mike Beda

- No update

Membership Promotion: . Erik Mulliniks

- No update

Research Promotion: Vacant

Student Activities: Jacob Koch

- Jacob K asked who receives the student applications for scholarships?
- How do students apply for NEOK Scholarship?
- Should we give out 3 scholarships, or just 1?

(continued...)



MEETING MINUTES (continued)

By Keith Averitt

- Need to discuss with Keith Browne to see if he still wants to administer Tumilty Scholarship. Duane H will get with Keith Browne to discuss.

Special Events: No update

Sustainability: No update

Publicity/Social Media: Matt Peterson

- No update

Webmaster/ECC: Matt Petersen

- Updated link to join ASHRAE

YEA: Jason Blair

- No update

K-STEM: No update

GGAC: Garen Ewbank

New Business:

Duane Harman:

- Dan Owen made motion to let auction proceed as is, with sitting President donating however much he or she decides for the lamp. Steve Uerling seconded the motion. Motion passed.
- Dan O suggested chapter meetings having attendees get lunch immediately after checking in to speed up meetings, and to open line starting at 11:45am.
- Pam Dunlap will be our representative for Women In Engineering

Meeting was adjourned at 5:35 pm.

Recording of Minutes

Chapter: Northeastern Oklahoma Chapter 069

Meeting: May 2020 BOG

Attendance:

Meeting Date: May 15, 2020

Compiled By: Keith Averitt

Attendees: Keith Averitt, Brian Biggerstaff, Duane Harman, Steve Uerling, Pam Dunlap, Claire Farr, Nolan Chance, Erik Mulliniks, Chad Smith, Mike Beda, Jacob Koch

T
he NEOK March BOG Meeting was held at Virtual Webex.. Chapter President Duane Harman called the meeting to order at 1:35 PM.

President: Duane Harman

- Social Distancing was practiced during this meeting
- Discussed virtual CRC in May

(continued...)



MEETING MINUTES (continued)

By Keith Averitt

President Elect: No update

CRC Action/PAOE:

Newsletter:

- Discussed needing newsletter for April, Claire will get this out next week
- Will mention that everything has been completed to meet our goals

Treasurer: .

- Needs to update forecast to actual
- Needs RP to advise how much to move from bank account into RP. Need to know before June 15, 2020

Secretary: Will update minutes

Attendance/Reception:

CTT Chapter Programs:

Honors and Awards:

Membership Promotion:

Research Promotion: No update

Student Activities:

- Kevin Inman from University of Tulsa will be awarded the Tumilty Scholarship
- Kevin Inman filled out wrong scholarship application. He should qualify for Tumilty scholarship
- Chad to reach out to him.
- We have no applicants for Society Scholarship
- Dan suggests we take \$1600 for HS Scholarship and put that into Tumilty Endowment and give (2) \$1000 scholarships if candidates are worthy. Committee to decide how scholarships are distributed
- Decision to be made at next BOG

Special Events:

- Discussed moving shooting event to June/July

Sustainability: No update

Publicity/Social Media:

Webmaster/ECC:

YEA: No update

K-STEM:.No update

GGAC:

New Business:

Duane Harman: Nolan to reach out to Chairs for PAOE Points

Dan: Is ASHRAE Society giving lenience on point due to meeting restrictions

Meeting was adjourned at ___2:30___ pm.



Keith Averitt
918-624-1005
kaveritt@eei-ok.com



Tulsa, Oklahoma

Newsletter of the NEOK Chapter of ASHRAE Region VIII

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

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VIRTUAL CRC



May 27 - June 3, 2020

- Region Business Meetings
- Chapter Leadership Workshops
- Address from President-Elect Chuck Gullede
- Honors & Awards Breakfast



REGISTER AT ASHRAE.ORG

[Click here to register for the virtual CRC](#)



2020 Virtual Conference ▶

[Click here to register for the 2020 Virtual Conference](#)



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*	\$
Total Paid:				\$

* 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 Calendar of Events

Important Dates

September 11, 2019
 September 19, 2019
 October 2, 2019
 October 10, 2019
 November 6, 2019
 November 19, 2019
 December 4, 2019
 December 10, 2019
 January 15, 2020
 January 21, 2020
 February 13, 2019
 February 18, 2020
 February 1-5, 2020
 March 4, 2020
 March 10, 2020
 April 1, 2020
 April 7, 2020
 May 6, 2020
 May 15, 2020
 May 27-June 3, 2020
 June 22-July 2, 2020

Meeting

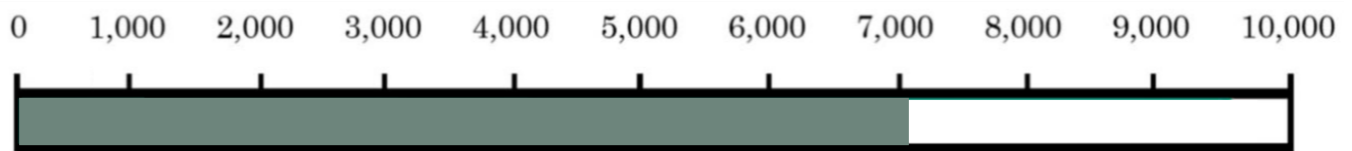
Golf Tournament
 Board of Governors
 Chapter Meeting (Lunch)
 Board of Governors
 Chapter Meeting (Lunch)
 Board of Governors
 Chapter Meeting (Lunch)
 Board of Governors
 Chapter Meeting (Lunch)
 Board of Governors
 Chapter Meeting (Lunch)
 Board of Governors
 Chapter Meeting (Dinner)
 Board of Governors
 ASRHAE Winter Conference
 Chapter Meeting (Lunch)
 Board of Governors
 Chapter Meeting (Lunch)
 Board of Governors
 Chapter Meeting (Lunch)
 Board of Governors
 CRC
 2020 Virtual Conference

Location

LaFortune Golf Course
 McNellie's South City
 Tulsa Country Club
 McNellie's South City
 Tulsa Country Club
 McNellie's South City
 Tulsa Country Club
 McNellie's South City
 Tulsa Country Club
 McNellie's South City
 Orlando, Florida
 Tulsa Country Club
 McNellie's South City
 CANCELLED
 CANCELLED
 CANCELLED
 Online
 Online
 Online

Check back in each subsequent newsletter as new events will be added as they are scheduled.

2019/2020 NEOK PAOE Points





2019/2020 Chapter Volunteers

Officers

President	Duane Harman	918-382-6173	duaneh@aaon.com
President Elect	Claire Farr	918-279-6450	cfarr@es2ok.com
Treasurer	Steve Uerling	918-836-0271	steve.uerling@leeandbrowne.com
Secretary	Keith Averitt	918-624-1005	kaveritt@eei-ok.com

Board of Governors

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

Committee Chairs

CRC Delegate	Nolan Chance	918-877-6000	nolanc@midwestmachinery.net
CRC Alternate	Duane Harman	918-382-6173	duaneh@aaon.com
Attendance/Reception	Pam Dunlap	918-587-4747	pbdunlap@matrixae.com
Audit	Chad Smith	918-665-6600	chad@airetechcorp.com
CTT/Programs	Matt Simmons	918-258-6890	msimmons@eda-fki-engineers.com
GGAC	Garen N. Ewbank	405-826-8156	gewbank@geotctest.com
Historian	Gene L. Redford	918-346-0444	glredbird@yahoo.com
Honors & Awards	Mike Beda	918-706-8309	mikebeda1945@yahoo.com
Invocations	David Lam	918-250-5590	david.lam@omnimechanical.net
K-12 STEM	Cheyenne Reynolds	918-224-6560	creynolds@sapulpaps.org
Membership Promotion	Eric Mulliniks	918-382-6432	ericm@aaon.com
Newsletter	Claire Farr	918-279-6450	cfarr@es2ok.com
Nominating	Joel Karsetter	918-665-3974	jkarsetter@abscompanies.com
Publicity / Social Media	Matt Petersen	918-282-7731	petersenmatthewe@gmail.com
Refrigeration	Eric Mulliniks	918-382-6432	ericm@aaon.com
Research Promotion	Jason Blair	918-232-7654	jblair@harrisonenergy.com
Special Events Co-Chair	Duane Harman	918-382-6173	duaneh@aaon.com
Special Events Co-Chair	Ryan Dunkerson	918-430-6793	rdunkerson@es2ok.com
Student Activities	Jacob Koch	918-836-0271	Jacob.Koch@Leeandbrowne.com
Sustainability	Stephanie Shaulis	918-858-4942	sshaulis@thgenergy.com
Webmaster/ECC	Matt Petersen	918-282-7731	petersenmatthewe@gmail.com
YEA	Brian Biggerstaff	918-624-1005	bbiggerstaff@eei-ok.com

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.

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