

**HISTORY
of the
CENTRAL OKLAHOMA CHAPTER
of
ASHRAE**

**Years:
2011-2016**



History of the Central Oklahoma Chapter of ASHRAE, Years: 2011-2016

Publication Date: February 28, 2020

Dusty Stoabs, PE

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Central Oklahoma – An ASHRAE PAOE *Premier* Chapter



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*Banner photos on Page 3:
Awards banners including PAOE
Premier patches and ribbons
going back to the inception of
the PAOE program in 1970. The
long red ribbon in the center of
the first banner is the first PAOE
ribbon ever awarded (1970-71).
The PAOE award changed from
a ribbon to a hexagon patch in
1977-78.*



FOREWORD

Our chapter history is documented in two books prior to this one. *"History Recalled"*, covering the first 60 years of chapter history, 1935 to 1995, and *"History of the Central Oklahoma Chapter of ASHRAE, 1995-2011"* covering the next decade. *History Recalled* was compiled by Chapter Historian, Bobbie J. Vermillion and William J. "Bill" Collins, Jr., both now deceased, and was published as part of the Society's Centennial anniversary. *History of the Central Oklahoma Chapter of ASHRAE, 1995-2011* was written by Chapter Historian, Alan Loeffler, and the late Dr. Faye C. McQuiston. This book picks up where that 2nd book left off and covers the next five years.

We also have two biographies that contain a wealth of chapter history. *"The Life and Times of William J. Collins, Jr."* was authored by Dr. Faye C. McQuiston and published in 2010. *"The Life and Times of Louis C. Nettleship, Refrigeration Engineer"* was authored by yours truly and published in 2016. Bill Collins was the first member ever inducted into the Central Oklahoma Chapter Hall of Fame. Louis Nettleship was the second, so it was fitting that those two have been honored with books documenting their life's work. Incidentally, Dr. Faye C. McQuiston and Bobbie J. Vermillion, along with Harry E. Rountree, were inducted together as part of the 3rd class.

Known today as the Central Oklahoma Chapter of ASHRAE, the Chapter was originally chartered by Frank Loeffler, Sr. on October 4, 1935 as the "Oklahoma Chapter of the American Society of Heating and Ventilating Engineers" (ASHVE) which was based on the original name for ASHRAE when it was founded in 1895. ASHVE, as a national Society, changed their name to ASHAE in 1954, and then to ASHRAE in 1959 when ASHAE merged with the American Society of Refrigerating Engineers (ASRE).

The Oklahoma Chapter was rechartered in 1965 as the Central Oklahoma Chapter of ASHRAE to help distinguish it from the Northeastern Oklahoma Chapter which serves Tulsa, Oklahoma and surrounding area. The Northeastern Oklahoma Chapter was actually chartered back in 1948, but it took 17 years for the Oklahoma Chapter name overlap to be rectified. When the Oklahoma Chapter was originally chartered, we were the 20th chapter of ASHVE, and were the first chapter in the southwest, now known as Region VIII.

In 1954, when the Society was divided into regions, our chapter agreed to act as the "guinea pig" and host a trial regional meeting (the type of meeting that today is called the Chapters Regional Conference, or CRC). The meeting was held at the Skirvin hotel on April 14-16, 1955 and attendance numbered 240 from 18 states including the District of Columbia and Canada. Representatives attended from more than half of the Society's chapters. In hosting this meeting in Oklahoma City, we started a new concept in Society operations.

In 1959-60 we were the first chapter reach its quota in funding the United Engineering Center building at 345 E. 47th Street in New York City, the new home for ASHRAE Society at the time.

In 1967-68, chapter member William J. Collins, Jr. originated the Region VIII Golden Gavel Award, an award that has meant so much to the growth of Region VIII. Ours was the first chapter to win the Golden Gavel. In 1970-71, Society President Frank Bridgers was so impressed with the Golden Gavel concept and its success that he instituted a similar award for the Society, known as the Presidential Award of Excellence (PAOE). Our chapter earned that PAOE award in 1970-71 and has earned it every year since, allowing the Central Oklahoma Chapter to be referred to as a "Premier" chapter since PAOE inception.

In October, 1972, Ms. Carolyn Rae Crawford joined our chapter, the first female member of the Central Oklahoma Chapter, and in 1984 she became our first female Chapter President. She was also the first female chapter president in all of Region VIII.

In 1975-76, chapter member William J. Collins, Jr. served as Society President. As of the writing of this Foreword, he is the only member of our chapter to serve as Society President.

The Region VIII Chapters Regional Conference for the 1994-95 year in Oklahoma City was intentionally selected by chapter leaders to coincide with the chapter's 60th Anniversary as well as the Society's 100th (Centennial) anniversary. All was properly planned when the terrorist bombing of the Alfred P. Murrah Federal Building occurred a few days before the conference. The welcome party was held from the top of the Liberty Bank Building in downtown Oklahoma City and the remains of the Murrah building could be clearly seen during the evening. That CRC was very successful in spite of that tragedy.

Speaking of successful CRC's, on Saturday, April 25, 2015, in Fort Worth, Texas, in front of ASHRAE members who traveled in from Texas, Oklahoma, Arkansas, Louisiana, and the country of Mexico, Mr. Joe Sanders, President of the Central Oklahoma Chapter, and all the Central Oklahoma Chapter member present, were presented with the prestigious Golden Gavel; an annual award given to the best overall Chapter in the Region based on an exhaustive set of criteria including membership, donations, programs, activities, communications, and more. An award that has eluded the Central Oklahoma Chapter for the previous 22 years, going back to Chapter President B.H. Prasad in 1993.

Prior to 1993, the Central Oklahoma Chapter won this award, on average, every 2 years with the longest stretch without winning of only 6 years. The longest winning streak was from 1986 to 1991 when the chapter won the award five straight years in a row.

The Golden Gavel judging committee is taught not only to look at categorical performance taking into account chapter size, but to look for improvement over previous years. The award committee in Fort Worth must have certainly recognized that the Central Oklahoma Chapter experienced a tremendous year from every perspective. There were statistical year-over-year improvements in meeting attendance, research donations, regular membership, and student membership. You can read about the chapter's accomplishments that year in this book under Chapter Year 2014-15. The chapter's fiscal year runs from July 1st to June 30th. That is why, in this book, each year is often listed as a hyphenated two year period.

We hope you enjoy reading about our chapter history and, if you were there, perhaps it will bring back some memories.

Dusty Stoabs, PE
Central Oklahoma Chapter Historian



Chapter Year 2011-12



Bryan Garcia, Chapter President 2011-12

The chapter made a lot of changes this year. The meeting location changed to 50 Penn Place from The Centre to provide a more intimate setting and improved food quality. Average attendance increased 40% to 80 people and the chapter saw an addition of 21 new members! This was also a sign of success of the Chapter Technology Transfer Committees' (CTTC) effort to put on great programs.

The chapter had great involvement by two student chapters with members from OU and OSU regularly attending chapter meetings, at no cost to the student. The chapter also provided financial assistance to both universities by sending students to the ASHRAE Winter Conference in Chicago. The students that went on the trip reported back to the chapter on what they learned at the conference.

There were ASHRAE events at each university as well. OSU held a lecture series in which chapter members were invited. OU served as a site for the annual ASHRAE webinar with the chapter providing lunch. A tour of the newly constructed Central Energy Plant at the University of Oklahoma was also included for those in attendance.

The chapter made great strides to get the "Young Engineers in ASHRAE" (YEA) more involved. There were three separate YEA events this year and an increase in YEA members serving as committee chairs and even Board of Governors. The chapter sponsored Daniel Brazeale to the spring YEA Conference in which he participated and came back ready to get more involved, speaking very highly of his experience.

The chapter meetings played out as follows:

September: The annual golf tournament was held at Coffee Creek Golf Course with approximately \$10,000 in proceeds being split evenly between ASHRAE Research and Scholarships.

Highlights of 2011-12

- Successful ASHRAE Golf Tournament that raised money for ASHRAE Research Promotion and Scholarships
- New meeting location
- Supported students attending the Winter Conference from both OU and OSU
- Three YEA social events
- Sponsored a YEA to centralized training
- Created a new website, Twitter and Facebook
- 40% increase in meeting attendance
- 21 new members
- New endowed scholarship fund approved

October: The first regular chapter meeting of the year was held in a new location at 50 Penn Place. The speaker was Alan Niles of Water Furnace speaking on "Commercial Ground Loop Heat Pumps Systems: Design and Economics." Edwin Lee, PhD student at OSU, received a \$2000 scholarship from the chapter.

November: James Roller from Chesapeake Energy spoke on "An Energy Alternate", the use of CNG in transportation, especially in commercial vehicles.

December: Gary Meshberg spoke on "Lighting Requirements of ASHRAE 90.1 2010 and Demand Response & Digital Networked Lighting Control Systems".

January, 2012: Distinguished Lecturer (DL), William Bahnfleth, shared a talk on Primary Chilled Water Flow.

February: Kevin Cash of TROX USA spoke on "Chilled Beams" and proper application of this new technology.

March: Jeff Jordan, of Optimum Energy Solutions, spoke on "The Building Commissioning Process and Its Effect on Best Practices in the Construction Industry". Jeff surveyed the whole process and justified the need of the commissioning agent from the start to finish of a project. The chapter meeting was jointly sponsored with NEBB.



ASHRAE Society President, Ronald E. Jarnagin (center), among Oklahoma State University students at the 2012 ASHRAE Winter Conference and AHR Expo in Chicago, IL. Mr. Aruna Abhayagoonawardhana, chapter representative for Student Activities and Publicity, is to Mr. Jarnagin's right

April: Enrique Munoz, Commercial Applications Engineer with TACO, spoke on "Single Pipe Systems". He discussed how energy savings could be achieved in certain applications (example: chilled beams) by using single pipe systems.

The chapter conducted a raffle at each monthly meeting by selling tickets at the registration table. Prizes were donated by members and ASHRAE Research Promotion (RP) benefited from the proceeds collected.

The new meeting room at 50 Penn Place brought with it new meeting dates and a new room set up. Starting this year, the chapter meetings moved from the second Wednesday of the month to the first Wednesday. Also, the chapter had the tradition of having a head table at the front of the room where the officers and guest speakers would sit. It was a long table and everyone sat on one side facing the membership. In the center of the head table was a lectern. Starting with the meetings at 50 Penn Place, the head table disappeared and only a lectern remained.

The Student Activity Committee was active this year joining with IEEE, OSPE, ASCE and SAME to recognize National Engineers Week. Future City is a high school student team competition to design a portion of a future city. Members of ASHRAE served as judges and the student activity chairman was the media coordinator for the Oklahoma Region. The chapter president was one of the volunteer judges. ASHRAE's committees and other members provided expertise in the HVAC field to an HVAC college course at the Oklahoma Christian University.

In February, the chapter worked with the National Environmental Balancing Bureau, Oklahoma Chapter to co-host an eight hour seminar devoted to testing and balancing HVAC systems.

The chapter changed their website host provider and updated the design. The old website had not been kept up-to-date and was languishing with outdated information and dates.

This year, the chapter also started a Twitter feed and a Facebook page to provide alternative communication paths to the members.

At the May Board of Governors meeting, member John Semtner presented documentation from the Oklahoma City Community Foundation including a Permanent Scholarship Fund Agreement for consideration by the Board. The program was voted on and approved and authorization was given to form the new endowed scholarship fund. Its funding process was to begin by transferring existing chapter funds earmarked for scholarships.

For the upcoming 2012-13 chapter year, there needed to be a change in the chapter officer line up. The 2011-12 Chapter Secretary needed to withdraw from the chairs for personal reasons, leaving a hole in the 2012-13 President-Elect position that needed to be filled immediately. The nominating committee went to work and identified David Royal as a suitable candidate to step in to the 2012-13 President-Elect position and to follow through as Chapter President for the 2013-14 year. The chapter voted David in along with the rest of the slate of officers. David was suited for the job. He had moved to the Central Oklahoma Chapter from the Nebraska Chapter, where he had already moved through the chairs and served as Chapter President in Nebraska during the 1987-88 chapter year.

Bryan Garcia was actually originally elected to chapter Secretary for year 2004-05. After moving through the chairs, Bryan would have been president in year 2006-07, however, circumstances caused Bryan to withdraw.

Harry Rountree ended up being elected President-Elect in 2005-06 to replace Bryan. Harry then served as President in 2006-07. That was Harry's second term as chapter president. His first go-round was all the way back in 1969-70, when he and the chapter won the Golden Gavel!

Bryan Garcia returned and was elected Secretary again for year 2009-10 and followed on through the chairs becoming President in 2011-12. Good thing, as the Central Oklahoma Chapter, under his leadership, had an outstanding year in 2011-12 improving in many areas over the previous year.

President Bryan Garcia reflected on his experience: *"It has been a blessing to serve as President this past year with the leaders I serve with. Everyone has stepped up and helped in areas to make sure we have had a successful year. It is because of all of us working together that we have been successful."*

Chapter Year 2011-12

OFFICERS:

President	Bryan Garcia
President Elect	Dusty Stoabs
Secretary	Brian Determan
Treasurer	Shaun Sexton

BOARD OF GOVERNORS:

Board of Governors	Jim Stengle
Board of Governors	Mark Furgason
Board of Governors	Tim Jones
Board of Governors	Trapper Wilson

COMMITTEE CHAIRS:

Attendance	Jenny Haltom
Governmental Affairs	David Royal
Historian	Alan Loeffler
Membership Promotion	Tim Jones
Newsletter	Bryan Garcia
Refrigeration	Don Carter
Research Promotion	David Royal
Roster	Dusty Stoabs
Scholarship	Grant Flurry
Special Events	Bob Carson
Student Activities	Tom Hughes
Technology Transfer	Don Carter
Webmaster	Bryan Garcia



Chapter Year 2012-13



Dusty Stoabs, Chapter President 2012-13

The chapter kicked off the year with the traditional fall golf outing. The event was very successful with twenty-seven companies contributing to ASHRAE Research and the scholarship foundation fund.

The chapter president made it a point to leverage technology to improve communications. The chapter continued to use the eVite online invitation program to send out invitations and track RSVP's for the monthly meetings. Every month, the eVite distribution list was updated with names and email addresses to ensure that every new member got an invitation to the meeting. The eVite invitations always included the presentation topic, speaker name, bio, meeting time and location, cost and forms of payment accepted. A great feature of using eVite was that every invitee could see everyone else's RSVP and know who planned on attending. Two days prior to the event, everyone who hadn't responded to the eVite received a reminder message. Then, on the day of the meeting, everyone who RSVP'd for the event got a reminder message sent to them.

In addition to the eVite going out to all members, each month an iContact message from the Chapter President went out with announcements and a link to the newsletter. This process ensured that Chapter members always received complete and updated information on all Chapter activities.

The chapter had a new eNewsletter Editor this year. The new editor stepped into this role taking over for last year's chapter president who ended up having to edit the newsletter himself. The new editor did an excellent job giving the Sou'Wester a new look and making sure the newsletter was published every month starting in September. A total of eight newsletters were published this year.

To provide the best chapter programs, the CTTC committee kicked off the year with a topical online SurveyMonkey survey to gauge the interest of the members on different topics. Once the SurveyMonkey results were tabulated, the committee reserved the best speakers they could get for the most requested subjects.

Highlights of 2012-13

- The chapter hosted a bus trip to the AHR Expo and Winter Conference in Dallas.
- 23 students went to the Winter Conference and the chapter and the region covered \$1,000 of their expenses.
- The Region VIII Scholarship and the David C. J. Peters Scholarship were awarded to chapter student members.
- The chapter held a refrigeration tour and hosted the ASHRAE webcast at two locations.
- Chapter meeting invitations were organized and RSVP's were tracked online.
- The Chapter produced a quality newsletter every month.
- Informative iContact updates were sent out every month.

The following is a list of the programs. Interesting topics, great food, and PDH certificates lead to an average attendance of 70 people per meeting.

October: Cooling Tower Fundamentals; Brandon Rees with Cooling Tower Depot.

November: Extreme Event Engineering – Understanding IBC Seismic/Wind Requirements; Lawrence Turner with Vibro-Acoustics.

December: Air Measurement Technologies; Bob Sousa with Air Monitor Corporation.

January: Underfloor Air Distribution, Displacement Ventilation, and Chilled Beams; Julian Rimmer with Price.

February: Air Filtration Technologies; Stephen Zitin with Bioclimatic Air Systems.

March: Demand Ventilation in Kitchens Applications; Dr. Andrey Livchak with Halton.

April: ASHRAE 90.1 Compliance; Chris Mathis (Distinguished Lecturer) with Mathis Consulting.

May: Optimizing Efficiency of Condensing Boiler Systems; Joel Southwell with Synex Controls.



*Matt Mitchell
Oklahoma State University Student Chapter President*

Incidentally, the chapter increased the cost of the monthly meeting from \$18 to \$20 this year.

In January, 2013, the AHR Expo and ASHRAE Winter Conference took place at the Dallas Convention Center. That huge, combined event isn't held in Dallas very often, so, due to the convenience of it being so close, the chapter organized a bus trip to go. This was a repeat of the same bus trip the chapter took the previous time the expo/conference was in Dallas in 2007. The 2013 trip was a success with many members who would not normally go to the expo/conference getting the opportunity to go. The bus trip provided a unique atmosphere for visiting and comradery. The bus left OKC from the FSB parking lot at 6:00 AM, stopped in Norman at the Lloyd Noble Center, then arrived in Dallas with 56 members on board at 10 AM. There was a continental breakfast provided on the bus. After the event, the bus then departed Dallas at 6 PM and there was a box dinner on the bus on the way back. It was a long day but a great experience.

This year, the long-standing student chapter at Oklahoma State University continued to thrive. They consistently maintained a strong presence at chapter meetings and took 19 students to Dallas for the Winter Conference! The student chapter at the University of Oklahoma showed great improvement in student leadership this year by attending chapter meetings and taking 4 students to the Winter Conference. The chapter was pleased to, once again, help finance students to the Winter Conference. The Chapter and Region VIII together provided \$1,000 to split between OU and OSU to help cover travel and registration expenses. The student chapter president from each school reported to the chapter at the subsequent chapter meeting about their experience.

The chapter was honored to have two outside scholarships awarded to students within the chapter. Gaizka Lasa, a student at the University of Oklahoma, and Mei Yung (Amy) Wong, a student at Oklahoma State University, were selected at the Winter Conference to receive the

Region VIII Scholarship for \$3,000 and the David C. J. Peters Scholarship for \$5,000 respectively.

Outside of the monthly programs and the trip to Dallas, the chapter hosted two additional technical events. They toured a local brewery and learned how refrigeration is used during the brewing process. Additionally, they hosted the ASHRAE annual webcast in two locations; University of Oklahoma and the local Trane office. The subject of the webcast this year was Dedicated Outdoor Air Systems.

Back in 2008, Chapter President Grant Flurry enlisted Dusty Stoabs to head up a project to replace the chapter paper roster with an electronic version online. Grant had learned that the Northeastern Oklahoma Chapter had already successfully done this. Dusty then hired the computer programmer who had worked with the Northeastern Oklahoma Chapter to create the new Central Oklahoma Chapter Directory. It contained the member directory as well as company listings for product reps, consulting engineers, contractors and utility companies, plus student chapter listings and a products directory.

This online directory was updated electronically from the Society's member database and the company and product listings were updated by each company themselves via a unique log in for every company. These features relieved a chapter member from the extremely laborious task of updating the roster manually once a year. The online Chapter Directory operated successfully for four years.

Unfortunately, in chapter year 2011-12, the chapter switched website hosts and created a new and improved website, but inadvertently deleted the Chapter Directory program and the entire database. It was gone forever. All hope was not lost however, as the chapter would soon "reboot" the website and the online directory with a new version of each utilizing the "StarChapter" website service.

President Dusty Stoabs reflected on his experience: *"Every chapter success is a direct result of the efforts put forth by the volunteers we have in leadership positions. Having a high number of returning committee chairs gives the chapter much needed and valuable experience."*



*ASHRAE members showing off their Research Promotion contribution award coins.
Left to Right: Daniel Brazeale, Dusty Stoabs, David Royal, John Harrod, Alejandro Garcia*

Chapter Year 2012-13

OFFICERS:

President	Dusty Stoabs
President Elect	David Royal
Secretary	Joe Sanders
Treasurer	Shaun Sexton

BOARD OF GOVERNORS:

Board of Governors	Brian Sauer
Board of Governors	Daniel Brazeale
Board of Governors	Grant Flurry
Board of Governors	Jason Keyes
Board of Governors	John Semtner
Board of Governors	Mark Furgason
Board of Governors	Timothy Jones

COMMITTEE CHAIRS:

Historian	Alan Loeffler
Honors & Awards	Alejandro Garcia
Membership Promotion	Tim Jones
Newsletter	Tony Clark
Research Promotion	David Royal
Student Activities	Brooke Enochs
Technology Transfer	Daniel Brazeale
Webmaster	Bryan Garcia
YEA	Daniel Brazeale



Chapter Year 2013-14



David Royal, Chapter President 2013-14

The year kicked off, again, with another successful golf outing with past president, Bryan Garcia, organizing the event at the Kickingbird Golf Course in Edmond, Oklahoma. Twenty-five companies contributed toward ASHRAE research and scholarships.

The chapter leadership implemented the new “StarChapter” subscription based website service and blog and the chapter president was diligent in posting regular updates throughout the year. New members were sent a welcome email and a link to the website with instructions on establishing a password for access to the member’s section which included the membership roster.

The highlight of the year’s programs was having Dr. Lily Wang, professor at the University of Nebraska and an ASHRAE Distinguished Lecturer, come speak on Improving Sound Performance in Classrooms.

The full slate of meeting presentation topics was as follows:

November: BIM Storm OKC, presented by the Frankfurt, Short, Bruza BIM Team.

December: Insuring Energy Efficient and Healthy Buildings—Effective Control of Outside air, presented by Peter Hmelyar with Aircuity.

January: HVAC Acoustics Strategies for Indoor and Outdoor Applications, presented by Brandon Wallace with BRD Noise and Vibration Control.

February: Single Zone VAV, presented by Brett Smith with AAON.

March: Liquid Desiccant AC Technology by Trevor Wende with Advantix Systems.

April: Acoustics that Make the Grade, Improving Sound Performance in Classroom Environments, presented by Lily Wang, University of Nebraska.

May: Recent Mechanical Code Changes, presented by Jerry King with City of OKC.

Highlights of 2013-14

- Successful golf outing with 25 companies contributing to research and scholarships
- New “StarChapter” subscription based website service with blog and roster
- ASHRAE distinguished lecturer presentation
- Society webcast hosted in three locations
- Numerous YEA events. YEA in leadership roles
- Future City, Engineer for a Day, and Math Counts participation
- Scanned old photos and documents and published the files on the new website
- Successfully resolved a significant IRS issue involving improperly filled 990 forms from years 2008-09, 2009-10 & 2010-11

The chapter hosted the ASHRAE Society webcast in three locations this year: Trane's office, R.B Akins Company, and Automated Building Systems.

YEA had numerous events this year including happy hour's, bowling, and paintball. The YEA Chair, Michael Wilson, attended the YEA Leadership Weekend in September in Atlanta, GA. Michael stated that was a great learning opportunity to help develop his leadership skills and generate ideas for YEA events.

Several members of the chapter participated in Future City and Math Counts competitions. Also, several companies sponsored "Engineer for a Day" activities and attended the Joint Engineering Societies banquet held on February 20th.

The Chapter awarded \$250 to an OSU student to help offset her expenses from attending the Winter Conference and AHR Expo in New York.

The chapter's Historical Committee sorted and scanned approximately one hundred old photos and documents and published these files on the new website under the History tab. The History tab was designated to be the source for past CRC reports, interviews, and other miscellaneous history documents, making this easily accessible to anyone.

Alan Loeffler, the chapter Historian, presented "History Notes" during three different chapter

meetings this year, with some interesting show and tell "artifacts" from the chapter archive.

The Board of Governors recognized that there were quite a few YEA members becoming involved in committee positions and began to make a concerted effort to encourage those YEA to commit to move through the chairs (Secretary, President-Elect, President and Board Member Ex-Officio).

In spite of some very good programs, however, the attendance this year dropped off from the previous year. The average attendance at chapter meetings was only 49 and it was sporadic with a low of 37 and a high of only 61.

Another challenge this year was the receipt of several letters from the IRS stating that the chapter owed thousands of dollars in penalties and interest for incorrect tax returns for the years 2008-09, 2009-10 & 2010-11. After a significant effort of communicating with IRS and hiring a tax attorney to file corrected returns, President David Royal was successful in getting all the penalties and interest charges dropped.

Mr. Royal commented on the effort and commitment required to be Chapter President: *"The Chapter has quite a few members involved in leadership positions, so the future looks promising, but we need to develop procedures that will make taking on the presidency less daunting."*



YEA Paintball Event

Chapter Year 2013-14

OFFICERS:

President	David Royal
President Elect	Joe Sanders
Secretary	John Semtner
Treasurer	Shaun Sexton

BOARD OF GOVERNORS:

Board of Governors	Brian Sauer
Board of Governors	Daniel Brazeale
Board of Governors	Dusty Stoabs
Board of Governors	Grant Flurry
Board of Governors	Jason Keyes
Board of Governors	John Semtner
Board of Governors	Mark Furgason
Board of Governors	Michael Wilson
Board of Governors	Rick Marsh
Board of Governors	Stephanie Thomas
Board of Governors	Timothy Jones

COMMITTEE CHAIRS:

Historian	Alan Loeffler
Honors & Awards	Alejandro Garcia
Membership Promotion	Timothy Jones
Newsletter	Bryan Garcia
Research Promotion	Adam Shupe
Special Events	Bryan Garcia
Student Activities	Caleb Spradlin
Technology Transfer	Daniel Brazeale
Webmaster	David Royal
YEA	Michael Wilson





Chapter Year 2014-15



Joe Sanders, Chapter President 2014-15

The leadership of President Joe Sanders and President-Elect, John Semtner, along with all the Board of Governors and committee chairs, catapulted this year to one of the most successful chapter years seen in decades.

Chapter leadership began planning the year early by holding individual goal setting sessions with committee chairs starting in February, five months before this chapter year officially started. A survey was sent out to the membership asking what type of topics everyone wanted to see. Once the programs were finalized, "Save the Date" postcards were physically mailed to every member before the first chapter meeting listing the dates, topics, and speaker's names for each meeting of the year. This early planning and high level of organization caused meeting attendance to immediately increase. Additionally, new members were personally contacted before each meeting to encourage their attendance. The chapter saw an overall year over year increase in meeting attendance of over 25%. Chapter membership itself increased significantly in both new members and new student members.

Highlights of 2014-15

- Meeting topics and speakers determined before the year began
- Save the Date post cards sent out before the first meeting
- Program topics centered around legislation, codes, commissioning, ethics, and energy and very little emphasis on products
- Joint meetings with AIA and PHCC
- Increased YEA involvement
- Held PE examination study sessions
- Published a printed roster for the first time in many years
- Held the first Day on the Hill at the State level by any ASHRAE chapter in Society
- Appointed the chapter's first Sustainability Chair and committee
- Appointed the chapter's first Social Media Chair
- Created a new cloud storage account for chapter documents
- Revitalized the chapter's Honors and Awards program
- Inducted two people into the Chapter Hall of Fame
- Increased meeting attendance, membership and contributions
- Won the Golden Gavel Award for the first time in 22 years

The list of programs for the year was as follows:

October: Oklahoma Secretary of Energy and Environment, Michael Teague, gave a great presentation of his office's responsibilities including energy production, water resources, earthquakes, and energy codes. The meeting not only provided much needed information from his office but also opened a line of communication for helping shape future policy. The presentation was concluded with a great question and answer session discussing Oklahoma energy codes and

what might be needed to get them updated. This meeting was also a joint meeting with the American Institute of Architects.

November: Retro-Commissioning of Health Care Facilities; Ed Tinsley with TME gave an excellent presentation with great advice for control strategies that would apply to any facility, not just health care.

December: Professional Ethics; Bruce Pitts, Director of Enforcement for the Oklahoma State Board of Licensure for Professional Engineers and Land Surveyors, presented on professional ethics and had a very clever take on the subject by comparing the State licensing laws on ethics to the ASHRAE Code of Conduct. This resulted in many members realizing that ASHRAE actually has an ethics policy that all members are obligated to.

January: VRF Regulations, Codes, and Standards; Keith Reihl presented on refrigeration requirements and where the future of refrigerants might be headed.

February: ASHRAE bEQ Building Labeling Program; DL Ross Montgomery, an ASHRAE Distinguished Lecturer, spoke on the bEQ program, something that many members did not clearly understand prior to this meeting.

March: Kitchen System Basics: A very special evening meeting that took place at the Francis Tuttle School of Culinary Arts' District 21 restaurant. This year the chapter re-instituted "Spouse's Night", which had been abandoned several years earlier. The event was promoted very well and sold out all 80 available tickets! The members and their spouses were first treated with a tour of the school's teaching kitchens led by Halton Hood's rep Shane Armstrong. After that, another tour of the facility's mechanical penthouse was given by the Temtrol rep Carl Cressey. The event also served as the Chapter's annual Refrigeration Tour since it included the systems for refrigerators and freezers. After the tours, everyone enjoyed a fabulous dinner prepared and served by culinary students.

April: HVLS Fans & ASHRAE 55; Jason Hornsby, with MacroAir, spoke on the application of High-Velocity Low-Speed fans and options to consider. Jason discussed how you can actually reduce AC tonnage and run-time and better disperse conditioned air in a building space.

May: Psychrometrics; Bruce Albertson led a discussion on Applied Psychrometrics and used the meeting room as the example of how to determine the moisture and temperature load and what actual supply air conditions are needed to achieve the desired room conditions.



ASHRAE chapter meeting at 50 Penn Place

Outside of the regular monthly programs the chapter also: 1) held a joint meeting with PHCC with Oklahoma City Chief Mechanical Inspector, Jerry King, 2) toured the Viola central plant which serves a large portion of downtown Oklahoma City, and 3) toured the new Central Boathouse that uses a VRF system to maintain office space, a workout facility, art gallery, and performing arts space.

Stemming from the efforts of last year's Board of Governors, President Joe Sanders brought in an insurgence of youth involvement into chapter activities with eight of his committee chairs being YEA. The chapter was even able to sponsor two of those members to attend Society-level YEA Leadership Weekends where they received valuable leadership training that they could use in ASHRAE and in their professional careers.

The chapter sponsored its first ever series of PE examination study sessions where chapter PE's volunteered their time to help prepare younger engineer intern members for the upcoming test. The sessions were a success and they had a 100% pass rate for all who studied in the group.

Through the established chapter scholarship endowments, the chapter was able to award four scholarships to college students totaling \$6,900.

Another mainstay from years long past that was brought back this year was the printed roster. The chapter had shifted to an online version through the new website but many members weren't used to looking for it there and never accessed it. While printing a roster is by no means innovative, the chapter took this as an opportunity to raise funds for the upcoming CRC in Oklahoma City by including advertising in the roster. Leadership thought they might be able to raise around \$1,500, which would offset the cost of printing and still put about \$1,000 in the CRC fund, but they actually were able to raise \$3,800.

On February 11th, 2015, the Central Oklahoma Chapter, in conjunction with the Northeastern Oklahoma Chapter, successfully completed the first ever "Day on the Hill" by any ASHRAE chapter at the state level. Members from the two Chapters spent several hours visiting offices of the

state's 150 legislators, providing information about ASHRAE and raising awareness of the work of the Society. In the subsequent weeks, follow up contacts were made to legislators thanking them for their time.

The chapter appointed its first Sustainability Chair this year and the inaugural year for the Sustainability Committee was a great success. The committee met monthly in order to identify community service sustainability events. The committee ultimately sponsored two events with non-profit organizations, Rebuilding Together and the Oklahoma City Boathouse Foundation. The first activity was an Oklahoma River Boathouse district cleanup and recycling event. Members spent the day collecting trash and recyclables from the riverfront and grounds. All recyclables were taken to a recycling center. The participants were then provided a tour of the new Chesapeake UCO Central Boathouse. The tour highlighted the variable refrigerant flow equipment unique to its air distribution.



Joe Sanders receiving the Jack Thompson Award from DRC Bill Klock

The second event was conducted in conjunction with Rebuilding Together to make improvements to the home of a physically handicapped individual. Chapter membership spent the day painting and weather proofing the interior rooms of the house. Additionally, local mechanical contractor, Trade Mechanical, installed a new accessible shower.

The chapter's biggest fundraiser, the annual golf tournament, was once again a tremendous success. Leadership was able to attract more sponsors this year and increase the sponsorship level of a few supporters. Annually, the tournament is the main funding source for increasing scholarship endowments and funding ASHRAE research. The chapter increased contributions significantly over the previous year as well as increasing the total number of individual contributors.

This year the chapter separated the social media and the webmaster responsibilities. While they had done a good job keeping the website current the past year, the social media accounts were not. By establishing an official Social Media Chair, they were able to post pictures and updates on a much more regular basis and were able to reach the YEA members with much greater success. As of this year, the chapter had a presence on Facebook, Twitter, LinkedIn, and Instagram.

The chapter also created a Dropbox account for the officers, committee chairs, and board members to serve as an organized central location for electronic documents to be stored indefinitely and with the intent that it would be starting place for future leaders to get the resources they need to be successful. In years past, it was as if the leadership was constantly "reinventing the wheel" with each new chairperson or officer when hard copy documents were not passed down consistently. With the new cloud storage account there was now a place to keep the work of successful predecessors and take some of the stress off of new leaders.

In the years leading up to this one, the chapter was doing a very poor job at seeking out honors and awards that chapter members could earn. So this

year, a new honors and awards chairman, Tino Mendez, was brought in to revitalize efforts and begin to formally recognize members' efforts and achievements.

The chapter honored two of its past presidents by inducting them into the Central Oklahoma Chapter Hall of Fame. The chapter hadn't bestowed this honor on anyone for 15 years. Past DRC John Harrod, and past president (current NE Oklahoma Chapter member) Mike Beda were honored for their service not only to the chapter but for their work at the regional and national levels.

Aruna Abhayagoonawardhana was honored for his service at the Regional level with the Regional Award of Merit and John Harrod with the Society's Exceptional Service Award.

This year marked the passing of chapter past-president (1973-74) C.D. "Bud" Miller. As well as being an ASHRAE Life Member, Bud was twice president of the Sheet Metal Contractors Association of Oklahoma, and he served 5 years on the National Board of Directors for SMACNA.



The prestigious Golden Gavel

As a result of the chapter's exceptional performance in essentially overhauling almost every category this year, Mr. Joe Sanders and the chapter were presented the prestigious Golden Gavel at the 2015 CRC in Fort Worth, Texas. This ended the 22 year drought going back to when the chapter last won the Golden Gavel in 1993 with B.H. Prasad as president. On top of that, Joe personally won the Jack Thompson Award which is given annually at the CRC to the most effective Chapter President in the Region.

When asked if he started out the year with the goal of winning the Golden Gavel, and now that he's done it, was there anyone in particular that he would like to thank, Joe Sanders had this to say:

"My personality is that if there is something to win, I want to win it! But really, my goal was that if I couldn't win the Golden Gavel, I wanted to work as hard as I could to put the Chapter in a position where we could really compete for it during John's (Semtner) year. However, John was actually working as hard as he could so that we could win during my year. That was one of the more significant things; normally a person going through the chairs tends to sit back and just observe during their year as President-Elect. John didn't do that. I probably had the most helpful President-Elect in history.

I tried to get it setup so that all I had to do was provide oversight to committee chairs and allow them to do their work; and for 99% of the time, that's exactly how it went. We did, however, have one committee that started getting behind, but we rallied the troops and others stepped in. Members

who weren't even really involved came in to help. If anything surprised me, it was the level of buy-in I got. Jeff Forman and Chris Dolan were two that really stepped in. I don't want to start naming people because I'm sure I'll forget someone. There were many who came in to help when needed. That committee ended up exceeding their goal.

I met with John Harrod and Tino Mendez several times throughout the year. They have a lot of ASHRAE experience at the Regional level. Their advice and confirmation that we were on the right track was very valuable. I had stressed to my committee chairs to stay in constant contact with their RVC, and they did a real good job of doing that. I got started on the CRC report early in the year. Tino told me that the Chapters that impress the judging committee are the ones that do things no other chapters are doing. I tried to highlight those kinds of things in the report, and I had several people review the report before it was final.

I can't remember who's idea it was to have a Spouses Night at District 21 and double that as a Refrigeration tour, but that hit a homerun.

Overall, it wasn't really me, it was everyone involved, especially my committee chairs that allowed us to win this award. It was a team effort.

I really enjoyed my time as Chapter President. I liked working with everyone in our industry and really benefited from the character building and leadership skills. It was a rewarding experience."



ASHRAE members after working with Rebuilding Together to make improvements to a home including painting, weather proofing and installing a new accessible shower

Chapter Year 2014-15

OFFICERS:

President	Joe Sanders
President Elect	John Semtner
Secretary	Mark Furgason
Treasurer	Stephanie Thomas

BOARD OF GOVERNORS:

Board of Governors	Adam Shupe
Board of Governors	Brian Sauer
Board of Governors	Daniel Brazeale
Board of Governors	David Royal
Board of Governors	Dusty Stoabs
Board of Governors	Grant Flurry
Board of Governors	Jason Keyes
Board of Governors	Michael Wilson
Board of Governors	Rick Marsh

COMMITTEE CHAIRS:

Governmental Activities	Byron Huges
Historian	Alan Loeffler
Honors & Awards	Tino Mendez
Membership Promotion	Daniel Brazeale
Newsletter	Damon McClure
Refrigeration	Jason Keyes
Research Promotion	Adam Shupe
Social Media Chair	Madison Schultz
Student Activities	Caleb Spradlin
Technology Transfer	Michael Wilson
Webmaster & Electronic Comm.	David Royal
YEA	Andy Donehue



Chapter Year 2015-16



John Semtner, Chapter President 2015-16

Seamlessly following through from the very active 2014-15 year, President John Semtner and the chapter leadership kept the ball rolling with early planning sessions and lofty targets. A separate CTC planning session was held prior to the Board of Governors early planning meeting. The goals this year were to have a great line up of meetings plus exceptional special events and tours.

The chapter year got a great kick off with the fall golf tournament. It always serves to bring everyone together after the break and to raise money for Research Promotion and scholarships. This year, there was such an interest, they had to turn away golfers as all available spots filled up.

An additional social event/fund raiser was added this year, in March, with the chapter's first sporting clays tournament at Silverleaf Shotgun Sports in Guthrie. The tournament had 18 teams of four persons each. Between the golf tournament, sporting clays, and other smaller fund raising efforts, the chapter increased its RP contribution over last year.

The chapter increased the monthly meeting cost from \$20 to \$25 this year, however, an attendee could still get the \$20 price if they registered early. Offering a discounted early registration price was designed to increase registrations and decrease the number of unregistered walk-ups. Traditionally, the chapter president was responsible for communicating the anticipated number of meeting attendees to the venue caterer a day or two before the meeting. To ensure that enough food was prepared, a multiplier was always applied to the number of registrations to account for walk-ups. If the count was overestimated, however, the chapter would be charged for that number of meals, but the door receipts would be short and the chapter could lose money. Providing an incentive to register early was intended to allow the count multiplier to be reduced and help improve the bottom line.

Highlights of 2015-16

- Early planning meetings to keep up the momentum from Golden Gavel year
- Chapter's first sporting clays tournament
- Two Distinguished Lecturer presentations
- Diverse variety of topics at chapter meetings
- Dr. Faye McQuiston receives the Lou Flagg Award
- OSU power plant tour and presentation on their new central plant
- Two sustainability events
- Riversport Rapids whitewater rafting pumping facility tour
- Second annual Day on the Hill
- Increased number of YEA and Student Activities events
- Substantial contribution to the chapter's endowed scholarship fund
- Establishment of the chapter vice-president position

The slate of chapter meeting presentations for 2015-16 were as follows:

October: Distinguished Lecturer, Dan Int-Hout, Chief Engineer at Krueger, presented on how energy savings in the wrong areas can lead to occupant discomfort and loss of productivity. He presented strategies for optimizing airflow and the benefits of ventilation and economizer operations.

November: Billy Pope with the Oklahoma Uniform Building Code Commission, spoke to the chapter on the commission and how the code approval process works.

December: Paul Weigl, Program Manager with Oklahoma Gas and Electric, participated in the annual Spouse's Night. He spoke about OG&E's involvement in various energy related programs and was able to keep the presentation relatable to the spouses. Spouse's Night was held at Rocky's in Bricktown.

January: Brandon Wilkerson with Poole Fire Protection and SFPE facilitated a discussion in a joint meeting for explaining SFPE's goals for a standard outlining minimum requirements for fire protection design. He also led a technical presentation on special inspections for atrium smoke exhaust.

February: Ebtron's Mark McCrea spoke to the chapter over demand control ventilation strategies and approaches with different technologies.

March: The second Distinguished Lecturer of the year, Barry Benator with Benatech, spoke on negotiation skills and how important it is for both parties to come out as winners. He also presented on the Myers-Briggs Type Indicator and how one can use this knowledge to understand the personality of the person they are negotiating with.

May: Russell Hawkins with Vibro-Acoustics presented on HVAC acoustics basics and troubleshooting.



ASHRAE Central Oklahoma Board of Governor's Meeting at Junior's during lunchtime

The April chapter meeting went on the road to Stillwater for an outreach with the Oklahoma State University. The event included a tour of the existing power plant and a presentation of the design of the upcoming new central plant. Following that, was a presentation by OSU, including a team of students, on ASHRAE research projects being conducted at the university. Finally, the highlight of the meeting was the presentation of the Lou Flagg award to Dr. Faye McQuiston for his historical work on William J. “Bill” Collins, Jr.. The ASHRAE Region VIII DRC, Bill Klock, was present to help hand out the award. Upon receiving the award, Dr. McQuiston addressed the crowd and spoke from his heart of his fondness for ASHRAE and OSU and the strong bond the chapter and the university have had for decades. The chapter then presented a check for \$1,000 to the William J. Collins Jr. Graduate Research Fellowship that Dr. McQuiston established at the university in 1988.

The combination of great food, great topics, including two DL’s, plus PDH certificates lead to an average attendance of over 70 people.

This year, the regular chapter meetings were also made more entertaining with raffles held each month, with net proceeds going to Research Promotion.

The Sustainability Committee put on two volunteer days, in line with last year’s efforts. The first was conducted through Rebuilding Together to make improvements to a home. Chapter membership spent the day painting and weather proofing the interior rooms of the house. Additionally, Trade Mechanical donated and installed a new HVAC system.

The second sustainability committee activity was a cleanup and recycling event at the Oklahoma River Boathouse District. Many forms of recyclable waste float along the river and end up caught against the shore. The chapter spent the day collecting trash and recyclables from the riverfront as well as the grounds. All recyclables were taken to a recycling center. The Chapter was provided a tour of the new Riversport Rapids whitewater rafting facility by Harrison Orr Mechanical. The tour highlighted the massive pumping systems responsible for creating the rapids.



Dr. Faye McQuiston (center) receiving the Lou Flagg Award from DRC Bill Klock (left) and Chapter President John Semtner at OSU

The Central Oklahoma and Northeastern Oklahoma chapters held a joint “Day on the Hill” for a second year. March 10th, 2016 marked the second annual event where chapter members met with state representatives. This year, the focus was to urge them to give authority to the OUBCC to adopt and implement a modern energy code and to offer ASHRAE as a resource for information about HVAC and energy conservation in commercial building systems.

In years past, chapter YEA events have operated on a shoestring budget. This year, the chapter offered sponsorship opportunities for different events for \$200. That budget made a huge difference in the quality of YEA events. The YEA committee held multiple events including mini golf, bowling, TopGolf, and a brewery tour.

The chapter had an active year with Student Activities as well. They hosted six events on campuses including presentations about engineering and ASHRAE in general, career fair preparation and resume critiques, and applied psychrometrics. Ultimately, they held events on five college campuses around the state.

A few years earlier, the chapter Board of Governors authorized an endowment through the Oklahoma City Community Foundation for scholarships to students in the state. This year, the chapter was able to add an incredible \$15,000 to that endowment.

The Board of Governors voted this year to create a Vice-President officer position which would automatically be filled by the most immediate past-president. The purpose was not only to improve continuity from year-to-year, but to also provide an additional chair position that contributes to the point total calculation of the Chapter Service Award. The Central Oklahoma Chapter has struggled to award Chapter Service Awards to their past presidents at the rate that other chapters in the region were doing. This is because the chapter didn’t have a vice president position and the fact that the chapter prefers to use the same treasurer year after rather than allowing that chair position to be in the normal officer rotation.



ASHRAE members and guests gather for a group photo during a monthly chapter meeting

The chapter Honor & Awards Chairman, Tino Mendez, submitted an application to elevate Life Member, Dr. Jerald Parker to the grade of Fellow. Among his many accomplishments, Dr. Parker was most widely known as the co-author of the textbook "Heating, Ventilating, and Air-Conditioning Analysis and Design" with Dr. Faye McQuiston and Dr. Jeff Spitler. Dr. Parker's family and members of the chapter were intimately involved in the process of putting the application together and were looking forward to a favorable outcome. Dr. Parker's application had the recommendations of three other PhD's and three ASHRAE Fellows and should have been a shoe-in for the award. However, Dr. Parker passed away after the application was submitted, but before it had been reviewed by ASHRAE Society's Honors and Awards Committee. The committee notified the chapter that due to Dr. Parker's death, they rejected the application because, by rule, they do not elevate a member to Fellow posthumously. Seeing this as a tragedy, the chapter put forth a motion at the CRC so that this situation does not repeat in the future.

This year also marked the passing of another Life Member, D. Barton Turkington. Both Dr. Parker and Mr. Turkington were university professors with Barton Turkington at the University of Oklahoma for 40 years and Dr. Parker at Oklahoma State University for 28 years and then Oklahoma Christian University for 27 years after that.

President John Semtner and the chapter leadership orchestrated a highly successful year but, unfortunately, did not repeat as Golden Gavel winners, as the award went to LeAnna Reynolds and the Northeastern Oklahoma Chapter.

When asked to reflect on his years as president-elect and then president of the chapter, John said the following:

"We were riding high, but so are several others in our Region. I tried to continue the momentum that Joe set forth, but didn't push a lot of new policies. We increased membership, attendance, and RP giving from that year, and that continued growth, I'm very proud of. Our event at Oklahoma State University was huge. Honoring Faye McQuiston was special to me and you could tell it meant a lot to him and his former students."



Chapter Year 2015-16

OFFICERS:

President	John Semtner
President Elect	Trapper Wilson
Secretary	Damon McClure
Treasurer	Stephanie Thomas

BOARD OF GOVERNORS:

Board of Governors	Brian Sauer
Board of Governors	Dusty Stoabs
Board of Governors	Jeff Forman
Board of Governors	Joe Sanders
Board of Governors	Rick Marsh

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Social Media Chair	Madison Schultz
Student Activities	Madison Schultz
Technology Transfer	Michael Wilson
Webmaster & Electronic Comm.	David Royal
YEA	Andy Donehue





Central Oklahoma Chapter History Books



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