# TABLE OF CONTENTS

## INTRODUCTION  
2

## CHAPTER PROBLEMS  
4

## CHAPTER INNOVATIONS AND SUGGESTIONS  
5

## CRC SUMMARY FORM  
8

## CRC SUMMARY FORM BACKGROUND  
9

1. **MEMBERSHIP PROMOTION**  
9  
2. **STUDENT ACTIVITIES**  
10  
3. **YOUNG ENGINEERS IN ASHRAE**  
10  
4. **CHAPTER TECHNOLOGY TRANSFER AND ATTENDANCE**  
11  
5. **RESEARCH PROMOTION/FUNDRAISING**  
13  
6. **CHAPTER HISTORY**  
14  
7. **SOCIAL MEDIA**  
15  
8. **REFRIGERATION**  
16  
9. **HONORS AND AWARDS**  
17  
10. **SUSTAINABILITY**  
17  
11. **GRASSROOTS GOVERNMENT AFFAIRS**  
18  
12. **FINANCES**  
19

## LIST OF APPENDICIES  
20

- **SAMPLE NEWSLETTER**  
13  
- **SAMPLE EMAIL UPDATE**  
23  
- **COMMITTEE CHAIRS MBO’s**  
26  
- **CHAPTER ROSTER**
INTRODUCTION

This year as president, I gave a nod to one of the “giants” of the Central Oklahoma Chapter and dedicated my presidency to Bob Vermillion. He was the kind of member who tirelessly gave of himself, but always had fun doing it. I tried to utilize the lessons of our chapter’s past and have maintained the chapter’s strong growth with a focus on suitability and membership.

Bob Vermillion (left) presenting a famous duck to solicit research contributions – 1972

In a recent ASHRAE Board of Directors survey, more efficient use of volunteer time ranked as one of the most important issues facing the Society. We focused the details of volunteers’ time this year and stressed the committee chairmen are not the entire committee. When selecting this year’s chairmen, a lot of focus was put on committees that could do the groundwork and not having an individual member champion the task.

An easy statistic on this year’s success is our chapter’s membership numbers. We have 33 new members (10% increase over prior year) and 24 of them are under 35 (YEA members). We also only have half the number of delinquent members from last year and the highest number of chapter dues paying members in recent memory (60% increase over prior year). Our membership chair got his committee organized early and managed our membership diligently throughout the year.

Maybe more important than membership numbers, is our meeting attendance is up 6% over prior year and 33% over the year before. The first CTTC planning meeting we held this year was a month prior to even our BOG yearly planning meeting. This allowed the CTTC to secure commitments and to provide a structure to the year. The anchor of the schedule was two well placed distinguished lectures. We identified two institutions (Oklahoma Gas & Electric
and Oklahoma State University) that were formerly foundations of our chapter, but in recent years we barely had contact. We focused attention on holding meetings around those two institutions.

Spouses night photos featuring a local comedian and our OG&E speaker

We reached out to OG&E to see if they were willing to present to our chapter. An impressive dialog ensued. OG&E had previously removed support for their employees’ memberships in community organizations. After five years, they recognized their loss of community engagement and identified they needed to reach out to the community. A few of our members were invited to their community outreach event. It resulted in contact with several organizations, a few new members, and OG&E agreed to present at our annual spouses’ night.

OSU was a feeder institution for HVAC engineers in our chapter. Annually, the thermodynamics class tours the old central plant on campus and many of our members had seen the plant over its long history. This year a project was underway to move the plant and a few of our membership were involved in the new design. We identified this as a great opportunity for our membership to learn about the new project and tour the plant one last time. We could not have believed how much of a success event would turn into. We had over 45 members and 40 students attend the event, including our District Regional Chair, Bill Klock. This was one of those milestone events where students first learn about ASHRAE and it impacts them for a long time to come. More about this event below.

We held many more events this year outside of our chapter meetings than we had in the past. This allowed for some of the younger membership to take some leadership roles in planning for: YEA, Sustainability, technical webcasts, leadership training, and GGAC events. Our chapter’s commitment to sending two YEA members to the annual training is paying off and I am proud to be one of the examples of that. Two of those events turned into impactful events for me. Our sustainability chairman put on two volunteer days this year in line with our past years. We volunteered with Rebuilding Together to help a widowed 90-year-old named Joyce Hunter clean and paint her house. Those of us that helped could not believe the conditions this elderly woman was living in. We removed mice and roach infested furniture, cleaned the place, painted the walls, and had a local contractor install a new heating unit and electric entry into her house. Helping this woman out will always be etched into my memory.
Our second sustainability day was a river cleanup day. A few of us collected trash along the Oklahoma River and then planned to tour the new pump house for the whitewater facility just constructed as a YEA tour. It was a beautiful spring day with lots of racers on the river and a great group of guys helped clean. Afterwards, we walked the new white water facility as they were training their first guides. We toured the pump house with six pumps moving 6,000 gallons per minute each. It was an impressive sight and we will be proud to show it off next year at the 2017 Region VIII CRC.

Before the inception of the Grassroots Government Affairs committee, our chapter has been actively engaged with our local officials through various mechanisms, but rarely officially representing our chapter. Currently we have 3 members serving in various capacities on the Oklahoma Uniform Building Code Commission. The OUBCC is the state body governing building codes. Last year we began a discussion with the Oklahoma Secretary of Energy regarding the lack of a clear and universal state energy code. Through these efforts we got the language simplified to clearly state that we are under the 2006 International Conservation Code. The issue with that code is many fold. Foremost the equipment efficiencies allowed is no longer purchasable. Another issue with our state being on this code is the fact all states agreed to have 90% of all projects comply or exceed ASHRAE 90.1-2007 by 2017. Oklahoma and 11 other states have no plan in place to meet that.

This year we reached out to a significant number of groups and didn’t achieve any measurable results. We had the executive director of the OUBCC, Billy Pope, speak at a chapter meeting. He discussed adopting the 2015 series of codes, but the OUBCC does not have the authority to adopt a state energy code. We had a representative attend the Oklahoma City workshops on sustainability. Oklahoma City (and Tulsa) comply with the IECC 2009 codes already, but Oklahoma City is not enforcing the energy code in any way. Our recommendations were to force engineers to self-enforce the codes and to have the city tie the adoption of the energy code to that of the building code. Those recommendations are still being reviewed.

The Central Oklahoma and Northeast Oklahoma Chapters held a joint Day on the Hill for a second year. We met with legislatures and their staff. We had great photo opportunities, but once again no actionable movement was seen.
from this effort. After that event I personally called the Chairman of the Board of the OUBCC and had a candid discussion on the history of the Energy Code. The year they attempted to pass an energy code, the attorney general held they didn’t have the authority to do so. His understanding was that officials saw the Energy Code as a “tax” on new business and it should be up to the municipality or business owner to invest in energy efficiency. We need to change this outlook and that will take a large coalition of organizations. I wrote a letter to the State Secretary of Energy asking him if the state has plans to comply with our federal requirement. He did not respond to my request.

Annually, we kick off our year with our golf tournament. It brings everyone together and collectively raises money for Research Promotion and Scholarships. This year we had to turn away golfers and raised more money than ever. It was a huge success and great way to start the year. After that event we slowly collect sponsorship money and begin to talk to people about research promotion. We once again raised Full Circle before the end of the year and then we raised money to support our spouses’ night. No one has the money to give right after the holidays. We pushed for in March and launched our first sporting clay tournament. We brought in over $5,000 in proceeds to RP from non-traditional sources. We saw it as a huge success, but afterwards we turned our attention to the RP calling committee. We recognized we were behind the ball on hitting up the corporate sponsors, who many were going through ownership transitions. Due to this fact and their internal accounting procedures, we have over $17,000 in donations that will not be in before the CRC. The Research Promotion chair was in his first year and it may go unnoticed at CRC that his committee has secured around $46,000 in research promotion dollars, which is 8% better than last year and 42% better than five years ago. In fact, it will be the best year since Bob Vermillion (mentioned above) passed away.

CHAPTER INNOVATIONS AND SUGGESTIONS

We have over $165,000 in endowments between three scholarships our chapter awards annually. The two older of the scholarships are at OSU, which we added to for the first time in recent memory. We wanted to make that addition more significant, but we were presented with an opportunity we couldn’t pass up. The newest endowment was opened at the Oklahoma City Community Foundation, to help award scholarships to students across the state. They offered a 50% match up to $10,000. We utilized our golf tournament contribution and a scholarship rainy day account to add a total of $15,000 to our endowment. These three scholarships along with sponsoring two engineering competitions (Future City & Capitol Hill Engineering Academy Shark Tank) are unique ways we are engaging our students.

This year we focused on some infrastructure items that helped in our chapter’s success. We sent two meeting reminders out prior to each meeting (newsletter and a registration announcement). That in addition, we increased the meeting cost, but gave a discount back to the old amount if you registered early. These items helped limit cost and plan better for our meeting. We were very diligent to not overload e-mails with more than these two emails monthly.

In years past our YEA events have operated on a shoestring budget. This year we offered sponsorship opportunities for different events for only $200. That budget made a huge difference in the quality of the YEA events. We held various events including Mini Golf, Bowling, TopGolf, whitewater facility tour, and brewery tour. We held the brewery tour along with our local ASPE chapter.
This year our Student Activities committee focused on getting our name back on campuses. We had a group head down to Norman and speak at OU on ASHRAE and it resulted in many students attending both meetings and YEA events. We sponsored students from both OU and OSU to attend the Winter Meeting. Smaller institutions information sessions resulted in them wanting to start a new student chapter, but no outreach was as large as the resources we put forth towards Oklahoma State University. We began the year offering career fair training and even taught part of a thermodynamics class. The student chapter at OSU had been one of our strongest historically, but they went through a lot of transition as their advisor transferred to another institution and brought the chapter president and vice president along with him. We made sure to be supportive and involved as a new advisor was identified and the chapter was being re-organized.

The OSU refrigeration tour mentioned above was perfectly timed as an opportunity to have our chapter meeting in Stillwater. The new advisor, Professor Bach, spoke as well as a team of Seniors working on an ASHRAE research project. That investment will lay for good communication for years to come with Professor Bach. A shining star on this event was the opportunity to honor one of our more famous members. Professor Faye McQuiston was honored by society with the Lou Flagg award for his historical writings on Bill Collins. McQuiston helped author one of the most widely distributed text books on HVAC and taught at OSU for years. The Region VIII DRC, Bill Klock, was present to honor Lou with this award. Faye spoke of his fondness of ASHRAE and OSU. We donated $1,000 to the a scholarship that Faye helped found. We highly recommend for chapters with local research institutions to strengthen that bond and utilize their chapter history to strengthen that bond.
# 2015-2016 SPRING CRC
## CHAPTER SUMMARY REPORT

<table>
<thead>
<tr>
<th>Region</th>
<th>Region VIII</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRC Location</td>
<td>Tyler TX</td>
</tr>
<tr>
<td>Chapter</td>
<td>Central Oklahoma</td>
</tr>
<tr>
<td>Chapter Number</td>
<td>068</td>
</tr>
</tbody>
</table>

### 1. Membership Promotion

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Area-Assigned Members (AAM)</td>
<td>286</td>
<td>260</td>
</tr>
<tr>
<td>Number of Chapter Dues Paying Members (CDPM)</td>
<td>194</td>
<td>121</td>
</tr>
<tr>
<td>Number of New Members to Date (AAM)</td>
<td>33</td>
<td>34</td>
</tr>
<tr>
<td>Number of Members Delinquent to Date (AAM)</td>
<td>15</td>
<td>22</td>
</tr>
</tbody>
</table>

### 2. Student Activities

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of New Student Members</td>
<td>17</td>
<td>22</td>
</tr>
<tr>
<td>Number of Active Student Branches</td>
<td>2</td>
<td>2</td>
</tr>
</tbody>
</table>

### 3. Chapter Technology Transfer

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Regular Monthly Meetings with Tech Program</td>
<td>9 (8 to Date)</td>
<td>8</td>
</tr>
<tr>
<td>Monthly Meeting Attendance (Total/Average)</td>
<td>575/72</td>
<td>543/68</td>
</tr>
<tr>
<td>Number of Seminars, Ali Courses, Tours or Other Technical Programs Outside Regular Monthly Meeting</td>
<td>5</td>
<td>6</td>
</tr>
<tr>
<td>Number of Technical Programs on Refrigeration Technology</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>Number of Social Events Separate from a Technical Program (I.E. Golf, Member’s Night Out, Etc.)</td>
<td>12</td>
<td>8</td>
</tr>
<tr>
<td>Number of Technology Award Submittals to Chapter/Region</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

### 4. Research Promotion/Fundraising

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Chapter Goal</td>
<td>$42,000.00</td>
<td>$38,000.00</td>
</tr>
<tr>
<td>Total Dollars Contributed</td>
<td>$20,005 (4/22/16) Over $46,000 (Committed)</td>
<td>$42,729</td>
</tr>
</tbody>
</table>

### 5. Grassroots Government Advocacy:

- **See Below**
- **List the Chapter Goals and Grassroots Advocacy of the Past Year (Use Separate Page)**
- **Information that may be included:** Holding combined chapter meetings with other organizations to discuss HVAC&R, visiting elected/appointed officials, holding a “Day on the Hill,” inviting elected/appointed officials to speak at chapter meetings
- **Seeking proclamations from governors, mayors and other elected officials for national engineers week (E-Week)**
- **See Below**
- **Soliciting nominations for the government advocacy**

**Chapter Website:** www.ashraecok.org
<table>
<thead>
<tr>
<th>AWARD AND OBTAINING GOVERNMENT AFFAIRS AWARD ENTRIES INTO REGIONAL COMPETITION</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>NUMBER OF ADVOCACY MEETINGS AND OTHER ACTIVITIES</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>OTHER GRASSROOTS ACTIVITIES NOT MENTIONED ABOVE (USE SEPARATE PAGE)</td>
<td>SEE BELOW</td>
<td></td>
</tr>
</tbody>
</table>

### 6. CHAPTER HISTORY

<table>
<thead>
<tr>
<th>CHAPTER HISTORICAL DISPLAY AT CRC</th>
<th>YES</th>
<th>YES</th>
<th>NO</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHAPTER HISTORY MOVED TO WEB SITE</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
</tr>
</tbody>
</table>

### 7. FINANCES

<table>
<thead>
<tr>
<th>TOTAL FUNDS BALANCE</th>
<th>33,713.82</th>
<th>$27,502.29</th>
<th>$26,591.90</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHAPTER DUES</td>
<td>$40.00</td>
<td>$40.00</td>
<td>$40.00</td>
</tr>
<tr>
<td>MEMBER COST OF MEALS</td>
<td>$25 / $20 EARLY</td>
<td>$20.00</td>
<td>$20.00</td>
</tr>
<tr>
<td>DATE OF LAST CHAPTER AUDIT</td>
<td>MARCH 2016</td>
<td>JULY 2014</td>
<td>JAN 2013</td>
</tr>
</tbody>
</table>

### 5. GGAC

- Meeting where Oklahoma Uniform Building Code Commission spoke
- Oklahoma Day on the Hill
- Oklahoma City Sustainability Workshop
- OG&E Community Outreach event
- Contact with OK Sec. of Energy, OUBCC E.D., OUBCC Board Chair, State Energy Office, OKC Dept. of Sustainability, OKC Dept. of Energy
- Planned BEq review of new OKC police HQ to present at 2017 CRC
CRC SUMMARY FORM BACKGROUND

The preceding pages contain our CRC Summary Form. The following are our committee reports, written by each Committee Chairperson, that are intended to supplement the information contained in the table.

1. MEMBERSHIP PROMOTION

The Central Oklahoma Chapter was able to use the excitement created last year to continue to find new leads on potential members. As my second year as membership promotion chair comes to an end I’m delightfully surprised by the energy and time our chapter has spent to keep things heading in a positive direction. Once again the membership promotion committee has been instrumental in achieving the goals we set at the beginning of the year. I’m excited to say we have signed up 24 new members (year to date). Our delinquency rate has been below 2% for much of the year as we have done a great job following up with delinquent members and encouraging them to renew. While last year we had members fall off due to transition of industries this year was much different. We made a point this year to follow up with those members that weren’t paying local dues to get a better understanding of the reasons why. During this campaign we found out that a couple of our members had passed away. We were able to update societies records while also having a more accurate count on our local membership.

We tailored our activities as a committee to maximize PAOE points and impact. I summarized the activities below:

- We recognized new members at each chapter meeting and in the monthly newsletter. Additionally, new members were contacted before each meeting to encourage their attendance
- Each Committee chair called a non-member and invited him to the upcoming Chapter meeting each month (generated 5 new members).
- Membership Promotion sponsored two YEA Events. At one of the events we toured the COOP Brewery in OKC which included a little tasting session after.
- Membership Promotion sponsored two Chapter Meetings by having a “Bring a Guest” event and “ASHRAE Membership” event where we spoke about the benefits of membership
- The MP committee spend a couple hours each month following up with those members on the delinquent report in order to encourage their involvement with ASHRAE. We made a point to illustrate the community that we’re building and the fun that is being had. This proved to be very successful.
- I went through the roster and encouraged those that qualified to advance to Members. This resulted in 2 Advancements

2. STUDENT ACTIVITIES

ASHRAEcok has had an active year with Student Activities! We have hosted six events on campuses including presentations about engineering and ASHRAE in general, career fair preparation and resume critiques, and applied psychrometrics. We have had eight ASHRAE members, including four YEA members, join us for events on five college campuses around the state. We have had 22 new student members join ASHRAE this year. We were able to reactivate an existing student chapter at a local technical college. And we are very close to forming a new student chapter at a local university. ASHRAEcok sponsored five students to attend the winter conference. The chapter provided $1600 in funds and various chapter members assisted with other incidental expenses like meals.
This year was an active year for scholarships in the Central Oklahoma Chapter of ASHRAE. Our yearly contribution to the Oklahoma City Community Foundation (OCCF) was this year met with a 50% match from the Foundation, allowing our $10,000 contribution to be worth $15,000. Our current allotment for scholarships from this foundation is $3,000 per year that we are able to award in scholarship funds to students. With this contribution we are very near, if not beyond, the threshold for being able to give $4,000 in scholarship funds next year. As a chapter we are excited to see this fund continue to grow and help students. This year we awarded a $2,000 scholarship to Jordan Miller. Jordan is an undergraduate student at the University of Oklahoma.

Our chapter also has two endowments in partnership with the Oklahoma State University Foundation. The two endowments are the Floyd Denham Scholarship, and the William J. Collins Graduate Research Fellowship. These endowments continue to award OSU students each year. This year the Denham Scholarship was awarded to Dylan Shadoan. The William J. Collins Fellowship was awarded to Andrea Bigi.

This year Faye McQuiston, and ASHRAE Life Member, won the Lou Flagg History award for his article on former ASHRAE President Bill Collins. In honor of this award and Faye McQuiston’s influence in our chapter, $1,000 was donated to OSU in his name.

3. YOUNG ENGINEERS IN ASHRAE

The YEA members of the Central Oklahoma Chapter had an incredible year. We have grown almost 50% with total members and also with the total participation at our monthly events. We have had several events with 20 plus people which we have not done in the past. We had a full year of fun with events including Top Golf, bowling, pool tournaments, putt-putt, and more! We had different technical tours and presentations, several philanthropy activities, along with sending 2 people to the YEA leadership weekend. The YEA Chapter also hosted an event in Stillwater at Oklahoma State University so the student chapter members were able to attend. We also had a joint meeting with the local ASPE YEA equivalent in which we met with other engineers in the industry were not yet involved in ASHRAE. The COK YEA group has some great momentum and look forward to keeping it going over the next several years.
4. CHAPTER TECHNOLOGY TRANSFER AND ATTENDANCE

The Central Oklahoma Chapter Technology Transfer Committee as always strived again this year to provide excellent programs that the members would enjoy and to maintain or raise the average attendance of the monthly meetings. The training at the Fort Worth CRC was very helpful and many ideas discussed in that session used throughout the year by the committee. The first was conducting a survey of the members to see what types of meetings they wanted similar to the previous year. A survey was sent to the members and the results compiled in May 2015. The chapter received 38% more responses this year than the previous year which was a sign more people are getting involved and want to help the chapter continue to improve. This information helped the committee decide what type of programs/speakers to have and what events would be of interest.

Our chapter meetings this year were as follows:

1. **You Can’t Afford Discomfort**  
   **Speaker:** DL Dan Int-Hout  
   **Attendance:** 83  
   **Guests:** 13  
   Distinguished Lecturer, Dan Int-Hout, presented on how energy savings in the wrong areas can lead to occupant discomfort and productivity. Further, he presented strategies for optimizing airflow and the benefits of ventilation and economizer operations. He was very entertaining and received great feedback from the membership.

2. **Oklahoma Uniform Building Code Commission**  
   **Speaker:** Billy Pope  
   **Attendance:** 76  
   **Guests:** 10  
   Billy Pope with the Oklahoma Uniform Building Code Commission spoke to our chapter on the commission and how the code approval process works. It was very useful information and always great to get a local official to speak to the membership.

3. **OG&E Energy Programs**  
   **Speaker:** Paul Weigl  
   **Attendance:** 66  
   **Guests:** 28  
   Paul Weigl, Program Manager with Oklahoma Gas and Electric, participated in our annual Spouse’s Night. He spoke about OG&E’s involvement in various energy related programs and was able to keep the presentation relatable with the spouse’s. He did a fantastic job and we look forward to our continued relationship with them.
4. **SFPE Minimum FP Req’s & Atrium Exhaust**  
   **Speaker:** Brandon Wilkerson  
   **Attendance:** 72  
   **Guests:** 9  
   Brandon Wilkerson with Poole Fire Protection and SFPE facilitated a discussion in this 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.

5. **Demand Control Ventilation Strategies**  
   **Speaker:** Mark McCrea  
   **Attendance:** 75  
   **Guests:** 10  
   Ebtron’s Mark McCrea spoke to the chapter over demand control ventilation strategies and approaches with different technologies. It was very informative the membership and many found the presentation helpful in their designs.

6. **Win-Win Negotiation Skills**  
   **Speaker:** Barry Benator  
   **Attendance:** 47  
   **Guests:** 5  
   Our 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.

7. **OSU Power Plant Tour & Presentation**  
   **Speaker:** Multiple  
   **Attendance:** 84  
   **Guests:** 41  
   OSU is currently under construction for a new central power plant to replace their aging one. ASHRAE-COK decided to take this opportunity to continue our outreach with the university and have an official chapter meeting on campus. The event is to tour their existing plant and immediately follow with a presentation of the design of the new power plant by FSB. This tour also serves as our refrigeration tour and the chapter looks forward to a future tour of the new power plant to see the differences in technology.

   Additional presentations during this meeting includes a TC presentation by their HVAC professor, senior design project presentation by students, and a very special award given to an HVAC legend, Faye McQuiston for the Lou Flagg Historical Award.

8. **Acoustics 101 (Upcoming May)**  
   **Speaker:** Russell Hawkins  
   **Attendance:** TBD  
   **Guests:** TBD  
   This upcoming presentation will be a back to the basics on acoustics. Russell Hawkins with Vibro-Acoustics will be presenting on HVAC acoustics basics and troubleshooting problems.

   The quality of the program topics and speakers overall this year was great. The average score was 92 out of 100 (at the time of this report) based on topics of presentation, presentation of material, whether information presented was useful, and adherence to ASHRAE’s commercialism policy. As is standard operation, we offered PDH certificates at every technical meeting. The combination of great topics, great food, and PDH certificates lead to an average attendance of over 70 people, which is about 30% of our members and is higher than the average attendance for last year.

   Outside of our regular monthly programs the chapter also:
   1. Second refrigeration tour of the year was at COOP Ale Works brewery as a joint YEA and ASPE event. Over 23 people were in attendance and was very educational.
   2. Will be hosting this year’s ASHRAE Webcast in three locations including Oklahoma State University.
Overall, this ASHRAE year was a great success and the chapter has well exceeded Par for PAOE points. Having two Distinguished Lecturer’s, continuing our annual Spouse’s Night, and having a chapter meeting on the campus of Oklahoma State University really sets this year apart from others. Hopefully next year can expand on this one and provide even higher quality to our members.

5. RESEARCH PROMOTION/FUNDRAISING

The Region VIII Vice Chairman has set a resource promotion goal for this year at $42,000. At the time of this report, this year’s reporting contributions total $18,380. With another $10,000 being processed from our annual Clatemaster donation and over $5,000 from our first annual sporting clays event, our contributions before CRC will total more than $33,000. This is an increase over last year’s total before CRC.

Increasing the number of events for fundraising was an important part of this year’s RP goal. Two events not previously done by our chapter were the sporting clays tournament and raffles at the chapter meetings. The raffles were successful in bringing in $575, while the sporting clays event brought in over $5,000. We had 18 teams participate in the sporting clays event, and plan to double that next year with the excitement we had from this year.

Contributions toward Full Circle and the annual golf fund raiser were successful early in the campaign. A calling campaign was instigated at the end of 2015 to get donations from companies before the end of the year. We then did another calling campaign in early April of 2016 which is still bringing in funds. Although not all the contributions are reporting, the calling campaign has already proven to be successful. Once all contributions are processed, a final calling campaign will be initiated to make one final push towards the goal, which we are optimistic to achieve.

Donor Recognition was also important to our chapter this year. We recognized our key donors at our spouse’s night. The event was successful and our donors were appreciative of the recognition.

Our RP Chairman from 2015 will remain the RP Chairman for 2016, so we are very optimistic about our future fundraising efforts in the Central Oklahoma Chapter.
6. CHAPTER HISTORY

To say that the Historical Committee has just been busy this year wouldn’t do justice to this incredible list of accomplishments. It truly has been a banner year, with over 1000 historical PAOE points achieved:

- Chapter Historian’s MBO’s completed in September.
- Leadership recall interview of last year’s Golden Gavel winning president, Joe Sanders (audio recorded and transcript typed).
- Fellow of Society interview of E.K. Campbell award winning professor, Dr. J.D. Spitler (audio recorded and transcript typed).
- Five (5) informative and substantial research articles all published online and in the chapter newsletter.
- Chapter timeline in Excel of this year’s activities.
- All available electronic files from past 9 chapter presidents uploaded to cloud storage
- Two pallets stacked high with archive boxes going back to the 1960’s examined, page by page, and culled-down to the essentials, organized by year and type of document, ready for scanning to cloud storage (scanning to take place in May-June timeframe)
- Website history page overhauled with numerous added documents (chapter charters, bylaws, history reports covering 1935-2010, history of Bill Collins, chapter archives file contents list, recent CRC reports, research articles, interviews, plus featured historical documents that correspond to the research articles.
- *The Life and Times of Louis C. Nettleship;* a 63 page, 8.5x11 book filled with photos, dates, stories, and humor. Readers can learn keys to being a leader in ASHRAE chapter operations and how life is enriched through strong family ties by studying the life of one of the pillars of the Central Oklahoma chapter. Book also includes an appendix with over 100 pages of historical documents to support the timeline and record of events.
- Chapter historical display at the CRC showcasing the four (4) books the chapter has produced and highlighting this year’s new book on Louis Nettleship.

To track all the effort associated with the above, a daily log has been kept. That log, and a copy of all reports, has been sent to the RVC periodically through the year. Areas for improvement next year:

- Keep the timeline spreadsheet up to date as we go, so that we don’t have to fill it in at the end of the year.

7. SOCIAL MEDIA

ASHRAEcok has maintained its commitment to be more inclusive of younger generations of engineers and to make chapter news and event information more accessible. We are active on Facebook, Instagram, Twitter, and LinkedIn. Posts typically include reminders about ASHRAE meetings and events beforehand, pictures of chapter events afterwards, pictures of ASHRAEers in action on job sites and tours, interesting tidbits from relevant articles, HVAC facts, archived chapter photographs, and reposts from society. Since 01 July 2015, Facebook likes have increased by 67% (up from 26% last year), Instagram followers have doubled from 23 to 46, Twitter followers have increased to 182 followers, our LinkedIn presence was transitioned from a private group to a public “company” and has increased from 15 members to 28. Members are finding it easier to keep track of chapter events, browse thru pictures of ASHRAE events, and keep up to date with chapter news.

Facebook offers valuable insight into the demographics of followers of the ASHRAEcok page. The majority of followers (74%) are male, no surprise there since the majority of ASHRAE members are male. The number has remained constant from last year (75%). There are a few noticeable jumps in page likes.
The most notable of these jumps correlate to Student Activity events. In the days following the SA event in November 2015, there was an increase of five likes. In the days following the SA events in December 2015, there was an increase of eleven likes. While correlation does not prove causality, the majority of the new likes were from students who attend the universities that ASHRAEcok had just visited.

ASHRAEcok will continue to use social media to connect with students, members, and potential members.

Connect with us! @ASHRAEcok #ASHRAEcok

Facebook.com/ASHRAEcok
Instagram.com/ASHRAEcok
Twitter.com/ASHRAEcok
Linkedin.com/companies/ashraecok

8. REFRIGERATION

Each year, one of the more prominent goals of the refrigeration committee is a successful refrigeration tour. 2015-2016 being no different, we were able to conduct not one, but two great tours.

The first was held on 2/18/16 at the COOP Ale Works facility here in Oklahoma City. We were able to develop this as a joint event with ASPE. With 23 people in attendance we had a great turn out, learned a lot about the COOP operation, and of course spent some time in their refrigeration room discussing what commercial refrigeration means to their business.

Our second refrigeration tour of the year was held on 3/6/16 at Oklahoma State University in Stillwater, OK. The university is beginning construction of a new central plant and we were given the opportunity to tour the existing plant and then see a presentation by the university on the new one. We feel this gave our membership a practical setting to see the advances in design from then to now. Following the tour and presentation we enjoyed a meal and a Q&A session on the decisions that went in to the new chilled water plant design. Our regular membership attendees were joined by many of the OSU student members as well. As a whole, the entire group found the experience very educational and insightful.
Although we were fortunate enough to host two great refrigeration tours this year I would like to take a moment to mention some of the challenges we face as a chapter in terms of developing meaningful contacts and connections in commercial refrigeration. The difficulty comes in terms of the quantity of refrigeration locations available in our geographic area and the types of locations available. As I review other chapter refrigeration efforts I see that they may be facing these same challenges as well – Many of the same types of venues are explored in other areas such as breweries. The construction of the new OSU plant provided us a unique opportunity but as we look forward to the coming years, what can we do to expand the options we present to our membership? I believe the first step to answering this question is growing the membership’s involvement in seeking out new and different locations. If we can continue to get our members involved we’ll become more aware of refrigeration opportunities that may not be on everyone’s normal radar.

9. HONORS AND AWARDS

All eligible candidates for the Chapter Service Award, Regional Award of Merit and other Society Honors and Awards have been identified and found to be lacking service points for award recognition at this time. We will keep track of those identified so that as soon as they become eligible, they will be nominated

John Harrod's application for the Exceptional Service Award was approved at the Winter Meeting in Orlando and the award will be presented at the Summer Meeting in St. Louis.

We did submit an application in November 2015 to elevate Dr. Jerald Parker to the Membership Grade of Fellow. Dr. Parker died in early December 2015 and the Honors and Awards Committee notified us that they had found out that Dr. Parker had died and they did not review the application.

At this CRC we are presenting a motion to see that this does not happen again. During the Summer and Fall of 2015 his family and members of the Chapter were intimately involved in the process of submitting the application and looking forward to a favorable outcome, especially after his death. Dr. Parker had three ASHRAE fellows and three PhDs recommending him for the Award.

The Fellow Award, as well as many other Society Awards, are forever and your name will be prominently displayed accordingly as long as ASHRAE exists. That is why it is so important to recognize our members as soon as possible.
ASHRAE Central Oklahoma Chapter established a Sustainability Committee in 2014. The sustainability committee has met monthly since then in order to identify and plan community service sustainability events.

The first of these activities this ASHRAE year was conducted through the organization Rebuilding Together. Rebuilding Together is a non-profit organization with the mission of “Rebuilding lives and neighborhoods keeping homes safe, warm, and dry”. The Sustainability Committee coordinated with Rebuilding Together for several months to identify the best project for the Chapter membership, and on December 12th, 2015 made improvements to the home. Chapter membership spent the day painting and weather proofing the interior rooms of the house. Additionally, local mechanical contractor and ASHRAE member Trade Mechanical donated and installed a new HVAC system.

The second of these activities was the Oklahoma River Boathouse District Cleanup and Recycling event. This area is a prominent destination for tourists and locals alike. It houses the Chesapeake Finish Line Tower, Devon Boathouse, Chesapeake UCO Central Boathouse, and the new Riversport Rapids Whitewater Facility. Many of these facilities are used to train world class rowers of all ages, including many Olympians from around the nation. Many forms of recyclable waste float along the river and end up caught against the shore. The Central Oklahoma ASHRAE chapter spent April 16, 2016 collecting trash and recyclables from the riverfront as well as the grounds. All recyclables were taken to a recycling center. The Chapter was then provided a tour of the new Riversport Rapids Whitewater Facility by Harrison Orr, who is the mechanical contractor and ASHRAE member. The tour highlighted the complex mechanical systems utilized throughout the facility.
11. GRASSROOTS GOVERNMENT AFFAIRS

As we are about to enter our 3rd year in Grassroots Government Activities for our local ASHRAE chapter a few things are important to remember. We have continued on with coordinated efforts with our Northeast Chapter to solidify a uniform energy code across our state. As with anything new a learning curve is forever present. The OUBCC has confirmed that we are presently under IECC 2006. It will be up to the legislatures to update this at the appropriate time but further delays may be costly. Questions about receiving federal funding while not complying to the newer standards have been asked and our goal is to continue to pursue those until answered. In our efforts the doors remain open with Oklahoma Secretary of Energy and Environment Michael Teague.

March 10th 2016 was our second annual “Day on the Hill” where we met with our local Senators and Representatives to urge them to give authority to the OUBCC to adopt and implement a modern energy conservation code and to offer ASHRAE as a source of information for HVAC in commercial building systems. The results may not have an immediate impact but the doors remain open for future discussion.

12. FINANCES

A budget was presented to and approved by the board at our August Board of Governors meeting of $38,525 income and expenses. We are on path to exceed our income expectations to over $51,000 due to strong golf and sporting clay sponsorships. In addition, we invoiced all non-paying local members and generated an additional $680 in income.

Our expenses were within $1,000 of budget, allowing us to make some generous contributions to research and scholarships. We had 2 YEA members attend regional training, but both had sponsoring companies. This unused budget was diverted to students attending the winter meeting. Our scholarship contribution was increased to $10,000 this year to take advantage of a one-time 50% match on one of our endowment.

As of this report our chapter currently has $18,402.57 in our checking account used for day to day operations, $1,981.87 in an account used for our scholarship committee, and $3,398.29 in our CRC 2017 fund.

Any operating funds remaining at the end of the June will be reserved for CRC 2017 operating capital.
Sample Newsletter. Our newsletter editor did an excellent job giving the *Sou’Wester* making sure the newsletter was published every month starting in August, 2015. A total of ten (10) newsletters will be published this year. All editions of this year’s *Sou’Wester* are available on the Chapter website www.ashraecok.org

Sample Star Chapter Meeting Notice: An email update goes out to the membership every month containing Chapter announcements.