



Central Oklahoma Chapter

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2012-2013 EDITION

Sou'Wester

Monthly Newsletter of the Central Oklahoma Chapter



**Chapter President
Dusty Stoabs, P.E.**

Greetings ASHRAE Members, Associates, Affiliates, and Students! ASHRAE is a building technology society with more than 50,000 members focusing on building systems, energy efficiency, indoor air quality and sustainability within the industry. Today's ASHRAE members work to advance the arts and sciences of heating, ventilating, air conditioning and refrigerating to serve humanity and promote a sustainable world. However, the sustainability of the society itself comes through educating, encouraging and supporting today's students who will become ASHRAE members and the industry leaders of tomorrow. One way ASHRAE supports top students is through various scholarship programs.

ASHRAE Society awards numerous scholarships including the "Willis H. Carrier Scholarship", "Reuben Trane Scholarship", "Frank M. Coda Scholarship", and the "Lynn G Bellenger Scholarship", as well as many others.

President's Message continued on Page 2

UPCOMING EVENTS

March Meeting

March 6th at 50 Penn Place in 3rd floor retail space

11:30am Lunch (\$20 at the door)

12:00pm Presentation by Dr Andrey Livchak with Halton on Kitchen Ventilation.

1:00pm Wrap-Up

Chapters Regional Conference (CRC)

April 18-20 at Hyatt on Lady Bird Lake in Austin, TX

LAST MONTH'S PRESENTATION

Stephen Zitin, CEO of Bioclimatic Air Systems, spoke about different types of cleaning technologies. He touched on the benefits and limitations of each technology. In addition, Stephen explained ASHRAE Standard 145.1 and 145.2, going into depth about which technologies meet the rigorous requirements of the Standard.

PRESIDENT'S MESSAGE

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In addition to the Society scholarship program, some universities award scholarships in the name of ASHRAE. Oklahoma State University's School of Mechanical and Aerospace Engineering awards both the "ASHRAE Central Oklahoma Chapter Scholarship" and the "Denham/ASHRAE Scholarship".

In 2012, the Central Oklahoma Chapter funded a new endowed scholarship through the Oklahoma City Community Foundation. Contributions to our fundraising campaigns, such as our annual golf tournament, go to support Research Promotion and our scholarship program.

For information about the Society's Scholarship Program, please visit www.ashrae.org/scholarship. For information on the new Central Oklahoma Chapter scholarship, go to <http://www.occf.org/scholarships/ashrae.html>.

I'm pleased to report that **Gaizka Lasa**, a student at the University of Oklahoma, and **Mei Yung Wong**, a student at Oklahoma State University, have been selected by the ASHRAE Scholarship Trustees at the Society's 2013 Winter Conference to receive the Region VIII Scholarship for \$3,000 and the David C J Peters Scholarship for \$5,000 respectively, for the 2013-2014 academic year.

Dusty Stoabs, PE
ASHRAE Central Oklahoma Chapter President

ASHRAE MEMBERSHIP UPDATE

It is hard to believe that we are approaching Spring of 2013. This year has flown by, and I have thoroughly enjoyed getting to know many of our newest members. Year to-date, we have added thirteen new members. They are:

Kader Taha (FSB)
Tony Landers (ClimateMaster),
Keaton Mullenix (EEI)
Jamie Ball (EMCS)
Tom Laird (TAFB)
Will Davis (MEP)
Levi Graves
Rebel Smith (FSB)
Craig Johnston
Neil Waggoner (Ross Engineering)
Mike Biebesheimer (Alvine)
Phillip Condreay (CH Guernsey)
Ed Nichols (Ross Engineering).

Please join me in welcoming these new members to the chapter. Please make a special effort to seek these newest members out at our March 6th meeting.

Should you have any associate that would like to learn more about ASHRAE and our local chapter, please contact me.

Sincerely,

Tim Jones
Membership Chairman

President Obama and Rep. Lipinski Issue Statements in Support of EWeek

This week is National Engineers Week (EWeek) – a time when the many contributions that engineers make to society are celebrated throughout the United States. Sponsored by the National Engineers Week Foundation, EWeek runs from February 17 to 23, and involves a number of events designed to inspire interest in and encourage K-12 students to pursue a career in engineering. For a complete list of programs, and ways to get involved in the Foundation's year-round events, visit <http://bit.ly/XP7e5u>.

President Obama recently issued a statement supporting EWeek, which reads:

"I send greetings to all those observing Engineers Week 2013.

"If there is one idea that sets our country apart from every other nation, it is the idea that in America, success does not depend on where you were born or what your last name is. Success depends on the ideas you can dream up, the possibilities you can envision, and the hard work you are willing to do to make them real."

"Initiatives like National Engineers Week help instill this belief in our next generation of doers and makers. By sparking young people's interest in science, technology, engineering, and mathematics, these efforts will keep the American spirit of curiosity and innovation alive for years to come."

"As you celebrate the ways engineering improves our lives, I wish you all the best for an enjoyable week."

Similarly, U.S. Representative Daniel Lipinski (IL-3), who is one of the few Members of Congress with an engineering degree, also issued a statement in support of EWeek:

"Engineering is problem solving, and we need engineers to help solve many of the problems that our nation and our world face today," Lipinski said. "Engineers are working to bring us cheaper and cleaner energy. They are making us safer on the roads and in the air. And they are helping to design and produce other life-saving devices. Engineers play a tremendously important part in our society."

"Surveys have shown that teenagers are more likely to consider a degree in engineering after learning about what engineers do," continued Lipinski. "Although just 4 percent of the country's work force is composed of engineers and scientists, they create the jobs for the other 96 percent. We owe it to our children and ourselves to get them interested in science, technology, engineering and math. That's why calling attention to this fascinating field and career opportunities during National Engineers Week is so important."

To view the full statement visit <http://1.usa.gov/XP8ISw>.

Representative Lipinski, along with a bipartisan group of 12 other Members, plan to introduce a resolution in support of National Engineers Week when Congress returns from its recess next week.

ASHRAE is a long-time supporter of EWeek, serving on the Foundation's Engineers Week Committee, and as a past co-chair of the Week.

Grassroots Government Activities Report: From EWeek to Engineering Licensure

ASHRAE members across the U.S. are getting excited about and engaged in grassroots activities as the standing Grassroots Government Activities Committee (GGAC) prepares to come online in earnest after ASHRAE's 2013 Annual Meeting in Denver. Here are a few examples:

- ◆ Several ASHRAE members and chapters worked with policymakers in their communities to encourage the issuance of proclamations and resolutions in recognition of [EWeek](#). The cities of Seattle, Tulsa, Lexington (Kentucky), and Houston, and the states of Arkansas, Kentucky, and Texas – to name just a handful – issued these measures.
- ◆ The ASHRAE Utah Chapter is attempting to engage state legislators to ensure that state building and energy code cycles are not extended from three to six (or more) years. There are several negative ramifications of such policies being enacted. For example, a delay in code adoption cycles would likely bring about:
 - ◆ A time lag for the introduction of new safety, energy efficiency, and construction requirements.
 - ◆ A loss of choice for consumers in that builders would be less likely to install the most up-to-date, efficient, and highest-performance equipment and technologies.
 - ◆ Higher building insurance costs due to buildings not being up-to-date as far as codes are concerned.
 - ◆ Government waste as new government buildings will not include the most up-to-date long-term cost-saving practices.
- ◆ Chapters and members in Arizona, Kentucky, Tennessee, and West Virginia are in the process of ascertaining how they can persuade state legislators and the executive branches within those states to include ASHRAE members in discussions about high-performance, energy-efficient K-12 school buildings – including the possible appointment of ASHRAE members to state advisory panels on the subject.
- ◆ In Vermont and West Virginia, threats to PE licensure vis-à-vis "master's-or-equivalent (MOE)"/"bachelor's-plus-30 (BS+30)" proposals are vigorously opposed by the Champlain Valley Chapter and Mountaineer Section, respectively. ASHRAE is working with the [Licensing That Works Coalition](#), a consortium of engineering societies representing more than 300,000 engineers in the U.S., to ensure that such measures are not enacted in any state.

These activities listed are just a few examples of what the GGAC apparatus – the Society standing committee, Regional Vice Chairs, chapter and section GGAC chairs, and the individual ASHRAE member – can do in bringing about sound public policy that aligns with ASHRAE's policy aims. It's important to point out that these activities are not limited to the boundaries of the U.S., rather all 14 regions, 174 chapters, and 53,000-plus ASHRAE members have the opportunity to get involved – and *should* get involved. ASHRAE is a global society and members are afforded the chance to provide technical expertise to government decision makers in their communities, thus expanding the reach of the Society's mission "to advance the arts and sciences of heating, ventilating, air conditioning and refrigerating to serve humanity and promote a sustainable world."

ASHRAE Learning Institute

2013 Spring Online Course Series

2 WAYS TO REGISTER

Internet: www.ashrae.org/onlinecourses

Phone: Call toll-free at 1-800-527-4723 (US and Canada) or 404-636-8400 (worldwide)

Note: You may register up to 24 hours prior to an online course. Courses are in US Eastern Standard Time.

Basics of High-Performance Building Design

Mon, March 18, 2013 – 1:00 pm to 4:00 pm ET

Air-to-Air Energy Recovery Fundamentals

Wed, March 20, 2013 – 1:00 pm to 4:00 pm ET

Advanced High-Performance Buildings Design

Mon, March 25, 2013 – 1:00 pm to 4:00 pm ET

Air-to-Air Energy Recovery Applications: Best Practices

Wed, March 27, 2013 – 1:00 pm to 4:00 pm ET

Complying with Standard 90.1-2010: Envelope/Lighting

Wed, April 17, 2013 – 1:00 pm to 4:00 pm ET

Humidity Control Troubleshooting

Mon, April 22, 2013 – 1:00 pm to 4:00 pm ET

Combined Heat & Power: Creating Efficiency Through Design & Operations

Wed, April 24, 2013 – 1:00 pm to 4:00 pm ET

Complying with Standard 90.1-2010: HVAC/Mechanical

Mon, April 29, 2012 – 1:00 pm to 4:00 pm ET

The Commissioning Process & Guideline 0

Wed, May 1, 2013 – 1:00 pm to 4:00 pm ET

Fundamental Requirements of Standard 62.1-2010

Wed, April 17, 2013 – 1:00 pm to 4:00 pm ET

* Take 3 or more courses and save 20% off registration!

HVAC Design Training

2 Courses, 5 Days of Intense Instruction

HVAC Design: Level I - Essentials

This training provides intensive, practical education for designers and others involved in delivery of HVAC services. Gain practical skills and knowledge in designing, installing and maintaining HVAC systems that can be put to immediate use. The training provides real-world examples of HVAC systems, including calculations of heating and cooling loads, ventilation and diffuser selection using the newly renovated ASHRAE Headquarters building as a living lab.

HVAC Design: Level II - Applications

Developed by industry-leading professionals, the training course provides participants with advanced level information about designing, installing and maintaining HVAC systems that can be put to immediate use. Participants will gain an in-depth look into Standards 55, 62.1, 90.1, and 189.1 and the Advanced Energy Design Guides, as well as a range of other HVAC topics including: HVAC equipment and systems; energy modeling; designing mechanical spaces; designing a chiller plant; and BAS controls.

Creating Effective, Highly Skilled Engineering Team Members

Gain knowledge to make immediate contributions to design projects

Participate in in-depth, practice-focused training

Learn from industry leaders selected by ASHRAE

Receive free bonus resources valued at over \$200

Visit www.ashrae.org/hvacdesign to register

NEW POSITION - GOVERNMENT ACTIVITIES CHAIR

Society would like us to establish our chapter as a resource for local decision makers for cities and counties in our area. To that end, they have asked us to form a committee to focus on government activities.

How will the Government Activity Chair and his/her committee accomplish that task? Here are some of the Society's suggestions:

- Joint meetings and networking events to educate local officials on ASHRAE core policy concerns that may impact them as well as other organizations as well
- Develop relationships with local policymakers, including them in events, communications
- Encourage active, informed membership by keeping local governments updated on technical issues
- Assist in writing or developing regulations, codes, ordinances or laws or participate in advisory groups, upon Board Of Governors approval and provided such activity does not violate ASHRAE's Code of Conduct.
- Develop relationships with other local chapters of other organizations such as American Institute of Architects, Building Owners and Management Association, International Code Council, National Society of Professional Engineers, US Green Building Council

As President-Elect I'm asking if any of you follow or have an interest in government activities. I don't expect the position to be terribly time consuming, although depending upon how engaged you are it could be.

Let me know if you'd at least be willing to be the Chapter liaison with Society's Government Activities Department on issues which affect our local city, county and state legislators.

David Royal
Central Oklahoma Chapter
2013/2014 President-Elect
David.royal@abscompanies.com

COK CHAPTER MEETING MINUTES

Last Meeting held February 6, 2013 at 50 Penn Place

President Dusty Stoabs called the meeting to order at 11:50 pm.

19 students from the OSU student chapter and 5 students from the OU student chapter attended the ASHRAE Society's semi-annual meeting held recently in Dallas. Matt Mitchell, OSU student chapter president, delivered a short report on their experiences in Dallas. Sabah Al-awawi, OU student chapter president, followed with a short report on the OU student's impressions of their trip as well.

David Royal, Research Promotion Chairman, recognized the \$500+ contributors to ASHRAE Research for the 2011/2012 Fiscal Year. Commemorative coins were presented to those in attendance after the meeting. David will be distributing the remaining coins to those contributors not in attendance over the next few weeks.

This month's speaker, Stephen Zitin of Bioclimatic Air Systems, delivered a very informative presentation on air purification systems for indoor air quality, odor/air pollution control and corrosion protection.

Dusty reported that the president of nominating committee, Tino Mendez, has the nominated, received consent from and presented the names of the following slate of officers and Board of Governors members to the Secretary for consideration for election to office for the 2013/2014 FY:

Officers:

President-elect: Joe Sanders

Secretary: John Semtner

Treasurer: Shawn Sexton

Board Members:

Grant Flurry – Past President

Tim Jones - President

Mark Furgason Jason Keyes Brian Sauer

Dan Brazeale Stephanie Thomas

Michael Wilson Rick Marsh

Dusty asked for additional nominations from the floor. Hearing none, David Royal made a motion to close nominations. The motion was seconded. The vote passed by the majority of the members. Dusty will also serve on the BOG next year as Board Member Ex-Officio.

Daniel Brazeale announced that the next YEA membership meeting will be held February 22nd at the Barron's hockey game. He encouraged all under 35 year old members to consider attending.

There being no other new business, President Dusty Stoabs adjourned the meeting at 12:45 pm.

Impact of an ASHRAE Student Chapter - Part Two

Sitting Down and Taking With Our Most Senior Chapter Past President

There are always insights gained from talking to experienced seniors. In last month's history section of our newsletter Harry told about the role of the student chapter of ASHRAE in his life as an engineering student. Recently Harry Rountree shared some of his experiences from his 60 years working in our industry in Oklahoma.

In the spring of 1950, Harry hitch-hiked from Stillwater to Oklahoma City, so that he could investigate job opportunities. He was graduating from Oklahoma A&M (name soon after changed to Oklahoma State University) in Mechanical Engineering. He looked for "Carnahan and Thompson Engineering" in the phone book and was soon in the downtown office building where they were located. Since it was Saturday, there was a reduced crew working. (Yes, Saturdays were work days.) Harry talked to some staff, leaving his contact information. While exiting the building, he noticed Bill Collins' firm on the building directory. When Harry inquired in Collins' office, he discovered that the boss was not in that day. Harry soon received an invitation to work at Carnahan and Thompson. Years later, Bill Collins joked with Harry about his absence from the office that day and not being able to meet him. He said, "Harry, that Saturday was the luckiest day of life for both of us!"



Harry and Norma Rountree

Harry's first project was working on a remodel of the First Baptist Church building in Oklahoma City. He ran the loads on the structure and did the drafting for the plans. Harry's first 7 years in engineering were mainly spent at Carnahan and Thompson, along with short assignments with Manhattan Construction, M.W. Kellogg and Phillips Petroleum. After Harry got his engineering license, he was given the opportunity to have his own engineering firm. For over 27 years, Harry was a principal in Davis, Robinson and Rountree, later changed to Davis and Rountree. After shutting down his own firm in 1984, Harry worked for another 25 years, working at The Benham Group plus working by himself on many projects.

When he looks back over his career, he can point to over 1,000 projects with which he was involved, about half being with Southwestern Bell Telephone.

Harry uses telephone buildings he was familiar with to point out how the use of buildings can change, thus altering heating, cooling and ventilation requirements. When he first did his design work on the buildings in the 1950's, the main requirement was human comfort. "There were 100 women telephone operators on the 13th floor of the phone building at 3rd and Broadway. There was only heating, plus open windows and pedestal mounted fans for ventilation in the office for comfort." Mechanical cooling came later. Then came the automatic switching equipment, complete with vacuum tubes and electronics which generated lots of heat. The need for operator comfort diminished, and equipment cooling requirements increased. Later still came the compact switching equipment with reduced space requirements. Then the telephone buildings had excess space to deal with. Technology changes over the years have made the HVAC engineer adapt also.

Most ASHRAE chapter members realize that Harry is in a small distinguished club, "The Two Timers" – those who have served as chapter president twice. Harry first served at president in the 1969-70 year (he received the Golden Gavel Award), then later, in 2006-07 when a need for leadership developed. Harry has served his industry and our Central Oklahoma Chapter for over 60 years (he reminds us that he was a student member before he came to OKC). Among the many ASHRAE honors he has received are ASHRAE Fellow, Distinguished Service Award, Award of Merit, and he is a Life Member. Harry was honored by being named to the Central Oklahoma Chapter Hall of Fame in 1994. He is one of the giants of our profession, and we acknowledge him as such.

Alan Loeffler, chapter Historian

BOARD OF GOVERNORS MEETING MINUTES

The Board of Governors held their last meeting on January 21, 2013.

Chapter Officers Present:

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

Board of Governors Present:

Grant Flurry John Semtner Brian Sauer
Daniel Brazeale Mark Furgason

Absent:

Jason Keyes Tim Jones Brian Garcia

Members Present:

Alan Loeffler Tony Clark Brooke Enochs

New Business and Committee Reports:

Meeting called to order by Dusty Stoabs at 12:11 P.M.

Meeting minutes from December BOG presented and approved.

Treasury – Shaun Sexton

Audit committee sent comments the prior week to Shaun
\$28,746 in bank, total assests show \$22,785; Shaun is looking into the discrepancy

John Semtner announced that he has been in contact with local professional organizations to inform them of our bus trip down to the AHR Expo. At the time there were 17 empty seats which would cost the chapter about \$700.00.

Dusty Stoabs said that Aruna was requesting that the chapter help pay for five OU students to make the trip to the ASHRAE meeting in Dallas. David Royal made a motion to contribute \$500. Motion Passed

The CRC is April 18-20th in Austin, TX at the Grand Hyatt.

Shaun Sexton volunteered to give the invocation at the February chapter meeting.

Research Promotion – David Royal would like for the next chapter meeting to be a donor recognition luncheon.

CTTC – Daniel Brazeale - February meeting is set and ready to go, April 18th webinar will be shown at three separate locations to help earn 300 PAOE points.

Newsletters – Tony Clark asked that all articles be turned in by Wednesday the 23rd.

No other new business.

Dusty Stoabs adjourned the meeting at 12:54.

BOARD OF GOVERNORS CONTACT INFORMATION

Officer Name	Role	Company	Phone	Email
Dusty Stoabs, P.E.	President	Frankfurt Short Bruza	(405)840.2931	dstoabs@fsb-ae.com
Joe Sanders	Secretary	RB Akins Company	(405)947.6502	jsanders@rbakins.com
Shaun Sexton	Treasurer	050 Engineering Company	(405)236.2030	ssexton@050engineering.com
Alan Loeffler	Historian	Federal Corporation	(405)239.7301	aloeffler@federalcorp.com
Alejandro Garcia	Chapter Delegate Honors and Awards	The Benham Companies	(405)478.5353	alejandro.garcia@saic.com
Bryan Garcia, P.E.	Webmaster Chapter Alternate	Trane Company	(405)717.7614	bdgarcia@trane.com
Daniel Brazeale	YEA Coordinator Board of Governors Tech Transfer Chair	Engineered Equipment	(405)525.7722	dbrazeale@eei-ok.com
Timothy Jones	Member Promotions Board of Governors	Engineered Equipment	(405)525.7722	tjones@eei-ok.com
Brooke Enochs	Student Activities Chair	Tinsley-Mullens Engineers	(405)463.6570	benochs@tmecorp.com
Tony Clark	Newsletter Editor	Tinsley-Mullens Engineers	(405)463.6570	tclark@tmecorp.com
Brian Sauer	Tech Energy & Gov. Board of Governors	Garver	(405)329.2555	basauer@garverusa.com
David Royal	Research Promotions President Elect	Automated Building Systems	(405)245.5409	david.royal@abscompanies.com
Grant Flurry	Board of Governors	Federal Corporation	(405)239.7320	gflurry@federalcorp.com
Jason Keyes	Board of Governors	Siemens	(405)615.6690	jason.keyes@siemens.com
John Semtner	Board of Governors	Architectural Design Group	(405)808.5894	jsemtner@adgokc.com
Mark Furgason	Board of Governors	Automated Building Systems	(405)948.1794	mark.furgason@abscompanies.com



Board of Governors at Sportsman's Club on October 29, 2012.

AREA JOB OPPORTUNITIES



Frankfurt-Short-Bruza, an established multi-disciplined firm has immediate openings for self-motivated, detail oriented, confident and accountable individuals to fill the positions of Project Mechanical Engineer & Plumbing Designer. FSB offers an excellent salary & benefits package and a unique work environment where each individual is encouraged to make positive contributions to each other, our clients and communities. Please visit our website at www.fsb-ae.com for more company information.

Project Mechanical Engineer

Minimum three years HVAC design experience; Engineering Intern (EIT) or Professional Engineer (PE) licensure; CAD proficiency; Availability to travel for jobsite inspections and client meetings; Good verbal and written communication skills, Self-starter with ability to coordinate with in-house disciplines; Ability to manage in-house Plumbing and Fire Protection designers; Desire to serve as a project lead Mechanical Engineer.

Plumbing Designer

Minimum three years continuous and recent design experience in a similar role; Have a high school diploma or general equivalency degree; Be physically able and willing to climb ladders and maneuver crawl spaces; Possess design knowledge and proficiency to allow the successful execution of the above job responsibilities; Be proficient with engineering software used to perform job responsibilities; Be proficient with Autodesk AutoCAD and/or Revit MEP. If you are an individual who would like to join a progressive company that offers a positive working environment, send your resume and salary history to employment@fsb-ae.com. Salary is commensurate with experience and professional licensure.

FSB is an Equal Opportunity/Affirmative Action Employer.

High Impact Management, LLC (HIM), a growing Oklahoma City based company providing reliable, resourceful and responsive construction management solutions to federal, public and private sector clients is recruiting for the following positions:

Mechanical Engineer with HVAC experience to perform professional building/facility and mechanical engineering project duties in support of **HIM's** projects within an OKC military installation or complex.

- BS degree in the area of Mechanical Engineering along with P.E. license is desirable.
- Five (5) plus years HVAC experience or equivalent combination of education and experience.
- Primary responsibility is for building and facility mechanical engineering planning and design formulation work for multi-phase new construction, renovation, and improvement projects.
- Assist Project Managers (PM) in the production of the building mechanical portion of the Statement of Work, Design Analysis, Conceptual Drawings, Technical Requirements and ROM (Rough Order of Magnitude) and Feasibility Cost Estimates.

Building Electrical Engineer to perform professional building/facility and building electrical engineering project duties in support of **HIM's** projects within an OKC military installation or complex.

- BS degree in the area of Electrical Engineering along with P.E. license is desirable.
- Five (5) plus years experience or equivalent combination of education and experience.
- Primary responsibility for building and facility electrical planning and design work for substantial multi-phase, limited-design new construction, renovation, and improvement projects for a variety of real property facilities.
- Verify that programming, building electrical design requirements, and funding coordination is complete for each phase of a project in order to ultimately deliver a complete project, ready to advertise for construction contract award.
- Provide technical assistance and solutions to customers requesting building and facility electrical engineering expertise.

Both **Mechanical/Electrical Engineer** will work in conjunction with other engineers, engineering technicians, engineering project managers, and engineering inspectors and receive functional management from the design engineering lead, division managers, and assignments by the assigned engineering project managers. If interested, please email resume to HR@HIMOKC.COM