

THE REGISTER

Focus on ASHRAE Technology & Membership Education

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President's Message

Welcome to the 2017-2018 Year! It is truly an honor for me to serve as your Chapter President this year. To be alongside such names as Jenkins, Hoffman, Gartner, Kautch, Cooper, Wentz, Meyersick, Cowman, and Poursharafeddin, just to name a few, is quite humbling. I am joined on the Board of Governors by Shaun Nienhueser (President Elect), Chris Hawk (Secretary), Chris Beatty (Treasurer), Jake Kopocis (1ST Board Member), and Aaron Rasell (2nd Board Member). We are very fortunate to have several of our committee chairs returning and previous co-chairs moving up into the chair position. All these people are supremely talented. I'm fortunate to be able to serve with this team.

The Chapter Regional Conference (CRC) was held in Kansas City, MO the first week of August. **As usual the Nebraska Chapter hauled in many awards.** The Research Promotion Team headed by Chair Dave Kros again had an amazing year. \$23,193.00 was raised for ASHRAE Research! This garnered the RP Team the High Five Award, Bronze Treasury Ribbon, Full Circle

Chevron, and Research Endowment Chevron. Our Chapter received the Special Citation and the Honor Roll awards. Our Chapter President for 2016-17, Jessica Errett, received the Presidential Award of Excellence! Congratulations and thank you for your hard work!

In the 2017 Design Competition, our student chapter team of received a third place in the HVAC System Selection category. Another student chapter team took third place in the Applied Engineering Challenge. More information can be in the Student Updates page. A big thank you to all who helped advise and inform our teams in this process. Congratulations to all!

We are always looking for future leaders in our chapter to serve as chairs, co-chairs, or in support roles for special chapter events. These are great opportunities to join and learn from a committed and dedicated team of highly talented individuals. These roles also give the opportunity to learn leadership skills and make lasting relationships while serving our members. I can't stress

enough the satisfaction you receive from serving. If you would like to be a part of these teams, please contact me at tglewis@oppd.com. If you have shown interest and we haven't found a place for you, PLEASE contact me so we can talk.

I'm really excited about our upcoming year. Your Chapter Technology Transfer Committees for Omaha and Lincoln have already met multiple times in July to plan the meetings for the upcoming year. Please see our program schedule at the end of this issue. Also, please remember to fill out the Program Evaluations after the meetings. I'm personally committed to reading all the comments. We are here to serve you. Let us know your thoughts and any ideas for future meetings you might like to see. You are always welcome to contact me at tglewis@oppd.com or 402-636-3734.

Sincerely,

Tom Lewis,
Nebraska Chapter President

REMINDERS

- Omaha Meeting - Tuesday, Sept 12th
- Lincoln Meeting - Wednesday , Sept 13th

In This Issue

- Meeting Topics 2
- September Calendar 3
- Student Updates 4
- HVAC Design Courses 5
- Grassroots Update 6
- Future meetings 7

September Meetings

OMAHA — Indoor Air Quality *with Sarah Poursharafeddin*

Tuesday, September 12th, 2017 - Anthony's

With over fifteen years of experience in the HVAC industry as a Manufacturer's Representative, Sarah Poursharafeddin has an extensive background in the building design sector, with an emphasis on sustainable and critical environments. Ms. Poursharafeddin has a Master Degree in Business from Bellevue University, and is the owner of Environmental Quality Experts, a rep firm supporting products for both Nebraska and Iowa, and offering air quality testing throughout the country. She is also a Nebraska ASHRAE Chapter member for over ten years, currently serving on the Planning Committee for Society, and working locally to strengthen the Nebraska Chapter's Women in ASHRAE group. Ms. Poursharafeddin previously served two years as Chair for the Board of the USGBC NFC, and she is a LEED-Accredited Professional.

LINCOLN — Thermal Imaging *with Doug Hampton*

Wednesday, September 13th, 2017 - Valentino's

Doug Hampton is a Commissioning Agent holding two credentials, one with the ACG (CxA) and the other with the University of Wisconsin-Madison (QCxP). Is a charter member of the Energy Management Association (EMA) certified as an Energy Management Professional (EMP). Memberships include ASHRAE, Green Omaha Coalition, and LEED Green Associate. Doug is also an ITC certified Level II Thermographer. Doug specializes in building automation controls and optimization, energy audits and assessments, and optimization of complex mechanical systems. Experienced with many building types including Uptime Institute Tier III data centers. He currently works for Trane as an Energy Engineer developing projects and deliverables for Trane's Intelligent Services.

For more information or to register for either meeting visit our website www.neashrae.org



Connect with NE ASHRAE

Want to stay connected to what Nebraska ASHRAE is doing? Use the links to the left or look for us on social media today!

You can also join our emailing list by emailing admin@neashrae.org

September 2017

Sun	Mon	Tue	Wed	Thu	Fri	Sat
					1	2
3	4 	5	6	7	8  Comments of DOE Prelim. Review of ASHRAE 90.1 -2016 Review Due	9
10	11	12 12:00pm Omaha Meeting	13 11:30am Lincoln Meeting	14	15	16
17	18	19	20	21	22 	23
HVAC Design: Level I, Denver			HVAC Design: Level II, Den.			
24	25	26	27	28	29	30

STUDENT UPDATES

Needs and Recognitions within the Student Chapters

LOOKING FOR:

UNO ASHRAE Holding Lunch-and-Learns for Students: **Speakers Needed**

The UNO Student ASHRAE Branch is planning student-level lunch and learns and is looking for speakers! If you have a topic that you feel would be student-appropriate, and have a 30 minute presentation you would like to give over the lunch hour, please contact:

Jim Butler

Jonathan Ingram

Student Activities Chair -or- UNO ASHRAE President
jbutler406@hotmail.com jingram@unomaha.edu

The first planned event will be during the second week of September.

ASHRAE Participating in STEM event for Middle School Girls: **Volunteers Needed**

Nebraska ASHRAE will be sponsoring a demonstration/activity booth at an event put together by the local section of the Society of Women Engineers. The **Wow! That's Engineering** event includes speakers, followed by lunch for the students and activity demonstrations from various groups.

The event will be hosted Saturday, September 30, and will be targeted to girls in 6th through 10th grade.

If you are interested in volunteering, please contact:

Jim Butler,
Student Activities Chair
jbutler406@hotmail.com

2017 Design Competition Results

3 HVAC System Selection - Dustin Hill, Nicholas Jensen, Sean McMahon, Kaleb Rodenhausen

Students won 3rd place. Students were tasked with designing and selecting a mechanical heating and cooling system. Three different systems were sized and selected for the building by the students and evaluated using both life-cycle cost and initial budget considerations. Students submitted their designs as a 15 minute visual presentation along with a 30 page technical report.

3 Applied Engineering Challenge
Joshua Smrcina, Trevor Steinkruger

Students won 3rd place. Students were tasked with the design of a retrofit evaporative cooled system that would reduce the energy consumption of a typical residential air conditioning system in a 1,600 sq. ft. residence in Atlanta, GA, using harvested and/or reclaimed water. Students were judged based on long term sustainable impact of the project along with financial considerations, creativity, and the clarity of the report document. Students submitted a 25 page technical report.

Special thank you to Rick Hollendieck (Sys-Kool), Jim Ellis (Commercial Air Management), Chuck Cole (Control Temp), and Rob Harper (Mechanical Sales for helping in the equipment selection discussion. And to Joe Hazel (HDR), Dan Karnes (Leo A Daly), and David Yuill (UNL) for acting as advisors to the teams.

Level I & II Training Offered Register for Both and Save

HVAC Design: Level I Essentials

When: September 18 - 20, 2017 | Denver, CO

Cost: \$1,264 (ASHRAE Member: \$1,009); Enroll 3 or more participants from the same company at the same time and SAVE!

ASHRAE's HVAC Design: Level I Essentials provides intensive, practical training for HVAC designers and others involved in the delivery of HVAC services. In three days, gain practical skills and knowledge in designing and maintaining HVAC systems that can be put to immediate use.

- Fundamentals
- Heating/Cooling Load Calculation
- System Selections
- HVAC System and Components
- Cooling System
- Basic Design of Hydronic Systems
- Basic Design of Air Systems
- Control/BAS

HVAC Design: Level II Applications

When: September 21 - 22, 2017 | Denver, CO

Cost: \$854 (ASHRAE Member: \$699); Enroll 3 or more participants from the same company at the same time and SAVE!

ASHRAE's HVAC Design: Level II Applications provides instruction on HVAC system designs for experienced HVAC designers and those who complete the HVAC Design: Level I Essentials training. In two days, gain an in-depth look into Standards 55, 62.1, 90.1, 189.1 and the Advanced Energy Design Guides. Training will focus on a range of topics including: HVAC equipment and systems, energy modeling, designing a chiller plant, and BAS controls.

- Sustainability/Green/LEED/ HPB/NZEB
- Standard 55
- Standard 62.1
- Building Systems: Education Facility
- System Applications: Chiller/Boiler, Air Handlers, VAV Terminals
- Life Cycle Cost
- Building Systems: Multi-story Office Building
- Water-to-Water GSHP Option 1 Chilled Beam with DOAS
- Water-to-Water GSHP Option 2 UFAD

GRASSROOTS GOVERNMENT ADVOCACY

DOE Welcomes Comment on its Preliminary Energy Savings Analysis of Standard 90.1-2016

On July 25, the U.S. Department of Energy (DOE) announced the availability of a Preliminary Energy Savings Analysis of ANSI/ASHRAE/IES Standard 90.1-2016 (Preliminary Analysis). A copy of the Preliminary Analysis is available [here](#).

DOE is accepting written comments, with a deadline of **September 8, 2017**. [Click here](#) for more information about the analysis and process for comment submission.

North Carolina Updates Hospital Facilities Guidelines

The legislature in North Carolina recently passed Senate Bill 42, An Act Directing the Medical Care Commission to Adopt the Recommendations of the American Society of Health Care Engineering's Facility Guidelines Institute. This bill does the following:

Directs the Medical Care Commission to repeal a suite of rules that regulate licensing of hospitals pertaining to physical plant, general requirements, and construction requirements (Hospital Facilities Rules) within 120 days of the act becoming law.

Directs the Commission to replace those particular rules with temporary (and subsequently permanent)

rules by incorporating, by reference, all the applicable standards, rules, and requirements of the most current edition of the American Society for Healthcare Engineering's Facility Guidelines Institute Guidelines for Design and Construction of Hospitals and Outpatient Facilities (Guidelines).

Provides that the rules adopted to replace the Hospital Facilities Rules with the Guidelines would be exempt from the provisions of the Administrative Procedure Act (Act) under Chapter 150B of the General Statutes that require the preparation of fiscal notes.

Provides that until the Hospital Facilities Rules are repealed and re-

placed by the Guidelines, the Hospital Facilities Rules would not be subject to the statutory periodic rules review required by the Act.

This act became effective upon ratification and applies (even retroactively) to any licensee or prospective applicant who seeks to make specified types of alterations or additions to its hospital facilities or to construct new hospital facilities who submits plans and specifications to the Department of Health and Human Services pursuant to the Hospital Licensure Act on or after January 1, 2016.

MORE ARTICLES

To find a full list of updates visit www.ashrae.org/government-affairs/government-affairs-updates or subscribe to receive information on activities within Congress and Federal agencies from the ASHRAE Washington office.

SUBSCRIBE

Future meetings

(Topics subject to change)

Omaha

Oct 10th	Refrigerant (ASHRAE Std. 15)	Anthony's
Nov 14th	Data Center Design	Anthony's
Dec 12th	Ethics	Anthony's
Jan 9th	ASHRAE 20/20	Anthony's
Feb 13th	DL	Anthony's
Mar 13th	Dust Collection and Vehicle Exhaust	Anthony's
Apr 10th	Humidification	Anthony's
May 8th	Leadership	Anthony's
June 12th	Golf Outing	

Lincoln

Oct 11th	Refrigerant (ASHRAE Std. 15)	Valentino's
Nov 15th	Critical Room Control	Valentino's
Dec 13th	Commissioning Round Table	Valentino's
Jan 10th	ASHRAE 20/20	Valentino's
Feb 14th	Design Project Showcase	Valentino's
Mar 14th	Dust Collection & Vehicle Exhaust	Valentino's
Apr 11th	Humidification	Valentino's
May 9th	TOUR - UNL City Campus	UNL
June 12th	Golf Outing	

Chapter Chairpersons

Membership Promotion

Philip Prest
Sara Robbins

Research Promotion

David Kros
Nick Mandel

Student Activities

Jim Butler
Brianna Brass
Milena Palahanska-Mavrov

Webmaster

Eric Granzow

Omaha Technology Transfer

Meagan Gibbs
Aaron Rasell

Lincoln Technology Transfer

Will Morris
Abby Visty

Grassroots

Tyler Glesne

Historian

Jim Ellis

Newsletter

Sara Robbins

Reception (OMA)

John Nebbia
Callen Schwank

Faculty Advisors

David Yuill
Josephine Lau
Tim Wentz

Special Events

Kyle Heberly
Aaron Rasell

Chapter Officers

President

Tom Lewis

President Elect

Shaun Nienhueser

Secretary

Chris Hawk

Treasurer

Chris Beaty

1st Board Member

Jake Kopocis

2nd Board Member

Aaron Rasell

Board Ex-Officio

Jessica Errett

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