

THE REGISTER

Focus on ASHRAE Technology & Membership Education



President's Message

Dear Nebraska ASHRAE Members:

ASHRAE has joined the STEM Education Coalition in promoting the importance of science, technology, and engineering and math (STEM) education. With a projected shortage of engineers due to Baby Boomers beginning to retire and the number of engineering graduates leveling off, the coalition is working in the area of public policy to inform our local, state, and federal elected officials how important STEM education is to increasing the number of engineers the United States produces to keep the U.S. competitive in the global marketplace. For those members who have the opportunity to work with students to promote STEM education and careers in engineering, ASHRAE has provided a resource guide for K-12th grade as well as additional resources at www.ashrae.org/ashraek12 for your use. These resources include suggested classroom projects, career videos and materials for teacher use.

The holidays are here already even though the weather doesn't seem very winterlike! I would like to wish you and your family a happy and safe holiday season.

We welcome any suggestions and ideas on ways we can improve our chapter so our members can get the most benefit out of their ASHRAE membership. If any member has any questions, ideas, or would like to volunteer with any of our committees, feel free to contact me at rmeyersick@schemmer.com or contact any of our board members or committee chairs.

Happy Holidays!

Renee Meyersick

Nebraska ASHRAE President 2012-2013

www.neashrae.org

REGISTER TODAY for the 2013 ASHRAE Winter Conference and AHR Expo at the Sheraton in Dallas, Texas on January 26-30, 2013 at www.ashrae.org/Dallas.

December 2012
Volume 54, Issue 4

Chapter Officers:

President

Renee Meyersick

President Elect

Sarah Poursharafeddin

Secretary

Jeff Backemeyer

Treasurer

Tyler Glesne

1st Board Member

Jessica Errett

2nd Board Member

Tom Lewis

Board Ex-Officio

Kim Cowman

Next Month:

- Articles for next month are due by **Dec. 31, 2012**
- Please send to:
Nick Decker
LEO A DALY
nrdecker@leoadaly.com



American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

A N I N T E R N A T I O N A L O R G A N I Z A T I O N



**Chapter
Chairpersons:**

**Membership
Promotion**

Jake Kapocis
Chris Hawk

Research Promotion

Shaun Nienhueser
Matt Sargent

Student Activities

Scott Murray

**Chapter Technology
Transfer & Omaha
Programs**

Jake Schanzmeyer
Dustin Brand

Lincoln Programs

Mike Barry

E-Commerce

Eric Granzow

Historian

Jim Ellis

Reception

Nick Mandel

UNO Student Chapter

Lily Wang

**UNL Student Chapter
& Chapter Website**

Tim Wentz

Special Events

Rob Harper

Newsletter

Nick Decker
Ben Schmitt

Librarian

Bill Wieseler

Annual E-Week Banquet

SAVE THE DATE!

**ANNUAL E-WEEK BANQUET
THURSDAY, FEBRUARY 21, 2013**

Sponsored by the Engineer's Roundtable
0.1 Continuing Education Units (CEU) or
1.0 Professional Development Hours (PDH) available

Banquet Location:

Strategic Air and Space Museum
28210 West Park Highway
Ashland, NE 68003

6:00 PM – Social Hour (Cash Bar)

7:00 PM – Banquet & Speaker

**LOOK FOR THE SIGN-UP FLYER WITH
ADDITIONAL INFORMATION SOON!**

Engineers Roundtable website:

<http://engineerroundtable.org/>



American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.



ASHRAE Learning Institute Courses

ASHRAE Learning Institute

Seminars & Courses at ASHRAE's Winter Conference and AHR Expo in Dallas, TX

2 WAYS TO REGISTER

Internet: www.ashrae.org/dallascourses

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

Full Day Professional Development Seminar

\$485/\$395 ASHRAE Member -- Earn 6 PDH/6 CEU or 6 AIA LU credits

The Commissioning Process in New & Existing Buildings

Saturday, Jan 26 – 8:00 a.m. to 3:00 p.m.

Complying with Standard 90.1-2010

Tuesday, Jan 29 – 9:00 a.m. to 4:00 p.m.

Data Center Energy Efficiency

Saturday, Jan 26 – 8:00 a.m. to 3:00 p.m.

Energy Modeling Best Practices and Applications: HVAC/Thermal

Tuesday, Jan 29 – 9:00 a.m. to 4:00 p.m.

Healthcare Facilities: Best Practice Design & Applications

Saturday, Jan 26 – 8:00 a.m. to 3:00 p.m.

Half Day Short Courses

\$159/\$119 ASHRAE Member -- Earn 3 PDH/3 CEU or 3 AIA LU credits

Air-to-Air Energy Recovery Fundamentals

Sunday, Jan 27 – 2:00 p.m. to 5:00 p.m.

Commissioning Process & Guideline 0

Monday, Jan 28 – 2:45 p.m. to 5:45 p.m.

Humidity Control: Applications, Control Levels and Mold Avoidance

Sunday, Jan 27 – 2:00 p.m. to 5:00 p.m.

Evaluating the Performance of LEED®-Certified Buildings

Monday, Jan 28 – 2:45 p.m. to 5:45 p.m.

Air-to-Air Energy Recovery Applications: Best Practices - **NEW**

Monday, Jan 28 – 8:30 a.m. to 11:30 a.m.

Optimization of HVAC Systems & Components: Techniques & Real-World Examples - **NEW**

Tuesday, Jan 29 – 9:00 a.m. to 12:00 p.m.

Application of Standard 62.1-2010: Multiple Spaces Equations & Spreadsheet

Monday, Jan 28 – 8:30 a.m. to 11:30 a.m.

Energy Management in New and Existing Buildings

Tuesday, Jan 29 – 9:00 a.m. to 12:00 p.m.

Combined Heat & Power: Design through Operations – **NEW**

Monday, Jan 28 – 8:30 a.m. to 11:30 a.m.

Avoiding IAQ Problems

Tuesday, Jan 29 – 9:00 a.m. to 12:00 p.m.

Understanding Standard 189.1-2011 for High-Performance Green Buildings

Monday, Jan 28 – 2:45 p.m. to 5:45 p.m.

Designing Toward Net Zero Energy Commercial Buildings

Tuesday, Jan 29 – 1:00 p.m. to 4:00 p.m.

Understanding & Designing Dedicated Outdoor Air Systems

Tuesday, Jan 29 – 1:00 p.m. to 4:00 p.m.

Introduction to Ultraviolet Germicidal Irradiation (UVGI) Systems – **NEW**

Monday, Jan 28 – 2:45 p.m. to 5:45 p.m.

Laboratory Design: The Basics and Beyond – **NEW**

Tuesday, Jan 29 – 1:00 p.m. to 4:00 p.m.



American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.



2011-2012 Research Investors, Nebraska Chapter ASHRAE

Thank you for your generous investment supporting ASHRAE's *research program*. It is through financial leadership and support like yours that this program remains a successful and viable endeavor for its members, the public, and the HVAC&R industry.

Organizations

\$1,000-\$2,499

Midwest Insulation Contractors -
Nebraska
Alvine Engineering

\$500-\$999

Canelli Engineering Inc.
DLR Group
Farris Engineering Inc.
KRS Engineering
Mechanical Sales Inc.
Sys-Kool
Trane

\$250-\$499

Aircad Inc
Control Services
Data Power Technology Corp.
Engineered Controls Inc
HDR Architecture Inc.
Johnson Controls Inc.
Lotemp Equipment
Morrissey Engineering Inc.
Specified Design Consultants Inc
Verne Simmonds Company

\$150-\$249

Air Side Concepts Inc.
H & S Plumbing
Hutchenson Engineering Products Inc.
Mechanical Contractors Association
Specialized Engineering Solutions

Every dollar contributed toward ASHRAE *Research* is spent on research projects. At any given time, there are 80 or more projects being conducted under the Society's guiding support. When projects are completed, their findings are then made available to the public and HVAC&R industry through various ASHRAE publications.

Again, thank you for your financial support and industry leadership. We appreciate your continued support of ASHRAE Research and look forward to your financial contribution this year.

Individuals

\$100-249

David Coziahr
David Yuill
Dr. Lily Wang
Gary Cooper
James Roubal
Jeff Backemeyer
Joe Hazel
John Mascarello
Kimberly Cowman
Mark Morris
Matthew Sargent
Patrick Keaiy
Renee Meyersick
Shaun Nienhueser
Sarah Poursharafeddin
Timothy Wentz
Thomas Lewis



American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.



Second Annual AEI/ASHRAE Conference



Second Annual AEI/ASHRAE Expo 2013-Omaha, NE

MARCH 6, 2013

[Vendor and attendee registration is open](#)

[Early vendor registration ends January 10th](#)

To register and attend any of the sessions [click here](#).

The event is sponsored by the Nebraska Chapters of AEI and ASHRAE and will be held at Embassy Suites Omaha-La Vista Conference Center.

The **AEI/ASHRAE Expo** is a one day event. The event consists of a 20 technical sessions on different building systems, technologies and applications. In addition to the technical presentations throughout the day, there will be a large central exposition with product representatives showing products and services for a wide variety of building materials and technologies. Continuing education credits are available to session attendees.

For those not attending technical sessions, the expo floor will be available to free of charge

For more information you can visit the website at www.aei-ashraexpo.org or email us at info@aei-ashraexpo.org



American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.



Omaha Meeting – Tuesday, December 11, 2012

- Location:** Anthony's Steakhouse, 7220 F Street, Omaha, NE 68127
Check-in: 11:30 a.m. (Please arrive early to facilitate serving meals)
Lunch: To be served prior to 12:00 p.m.
Menu: Club Sirloin [\\$21.00](#)
Chicken Cordon Bleu [\\$16.00](#)
Grilled Salmon [\\$16.00](#)
Topic: Improving Sound Performance in Classroom Environments
Speaker: Dr. Lily Wang, PE, Associate Professor University of Nebraska-Lincoln

[Pre-registration for this meeting would be GREATLY APPRECIATED!!!](#)

Reservation required by Friday, December 7, 2012: Nick Mandel, Specialized Engineering
nmandel@specializedeng.com

Omaha Featured December ASHRAE Speaker

Dr. Lily Wang is an Associate Professor and Program Coordinator of the Architectural Engineering Program within the Durham School of Architectural Engineering and Construction at the University of Nebraska – Lincoln. She received her BS in Civil Engineering from Princeton University and her PhD in Acoustics from Penn State University. Her research focuses on a variety of room acoustic and noise control topics, including human perception and performance in noise, indoor noise criteria, room acoustics computer modeling, and classroom acoustics. She with her students has published over 20 peer-reviewed papers on these topics and presented over 60 papers, primarily at ASHRAE and Acoustical Society of America (ASA) conferences. Dr. Wang is a member of ASHRAE, a Fellow of the Acoustical Society of America, and Board-Certified by the Institute of Noise Control Engineering. She is a recipient of the ASHRAE Ralph G. Nevins Physiology and Human Environment Award and the ASHRAE Distinguished Service Award, having been active in Technical Committees 2.06 Sound and Vibration Control and 2.01 Physiology and Human Environment. She has also received a number of Distinguished Teaching Awards at the University of Nebraska – Lincoln, a National Science Foundation CAREER Award, and the R. Bruce Lindsay Award from the Acoustical Society of America. She obtained her Professional Engineers (PE) license in Acoustics from the state of Oregon in 2007.

Topic: Acoustics That Make the Grade: Improving Sound Performance in Classroom Environments

Good acoustics in classroom environments is essential in helping students to hear and learn what is being taught. Younger students, in particular, require more stringent acoustic conditions than adults do, as their hearing systems are not as well-developed. This presentation will review the importance of classroom acoustics and discuss recent research about the effects of classroom acoustics on speech intelligibility and student achievement. The current ANSI Standard S12.60 on classroom acoustics is presented, followed by general guidelines for how to design for good acoustics in these environments, particularly with regards to the heating, ventilation and air-conditioning (HVAC) systems. A specific case study is presented with audio samples to demonstrate the impact of appropriate HVAC system design towards achieving acceptable classroom acoustics.

Future Omaha Chapter Meetings

Jan. 8 th	ASHRAE Distinguished Lecturer – TBD	11:45 @ Anthony's
Feb. 12 th	UNMC Roundtable Discussion with Ken Hansen	11:45 @ Anthony's
Mar. 12 th	ASHRAE Distinguished Lecturer – TBD	11:45 @ Anthony's
Apr. 9 th	UNO Student Chapter Meeting	11:45 @ Anthony's
May 14 th	Facility Tour – TBD	TBD
June	ASHRAE Golf Outing	TBD



American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.



Lincoln Meeting – Wednesday, December 12, 2012

Location: Valentino's, 35th & Holdrege, Lincoln
Check-in: Noon (Please arrive early to facilitate serving meals)
Lunch: To be served prior to 12:00 p.m.
Menu: Buffet **\$13.00** Please note new price!
Topic: What is IPLV
Speaker: Jonathan Spreeman, Trane Direct Sales Engineer

Pre-registration for this meeting would be GREATLY APPRECIATED!!!

Reservation required by Monday, Dec. 10, 2012: Mike Barry, Black Hills Corp
mike.barry@blackhillscorp.com

Lincoln Featured December ASHRAE Speaker

Jonathan began his career with Trane in 2004 after graduating from Bradley University. His first responsibilities were to provide support to customers using Trane's energy analysis program TRACE 700. In 2006 Jonathan joined the Trane chiller group supporting the sales field with product and application support of chillers and chilled water systems. He supported the screw and scroll water and air cooled chiller group along with the centrifugal chiller group. From 2008 to 2011 Jonathan supported advanced applications of applied systems including chillers, air handlers, and building controls to help customers optimize HVAC systems for energy efficiency, and sustainability. Jonathan is now a sales engineer for the Trane Sales office in Omaha & Lincoln.

Topic: What is IPLV

Integrated Part Load Value (IPLV) is part of ASHRAE 90.1 and is used in many different ways, from specifications to code compliance to utility rebates. This presentation will cover what is IPLV, how to apply it, and discuss how if IPLV can be used in place energy analysis.

Future Lincoln Chapter Meetings

Jan. 9 th	ASHRAE 90.1 2010 Update	Noon @ Valentino's
Feb. 13 th	TBD	Noon @ Valentino's
Mar. 13 th	ASHRAE Distinguished Lecturer	Noon @ Valentino's
Apr. 10 th	Acoustics That Make the Grade	Noon @ Valentino's
May 8 th	Energy Code	Noon @ Valentino's
June	ASHRAE Golf Outing	TBD

- Articles for next month are due by **Dec. 31, 2012**
 - Please send to:
Nick Decker
LEO A DALY
nrdecker@leoadaly.com
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ASHRAE, founded in 1894, is an international organization of 51,000 persons. ASHRAE fulfills its mission of advancing heating, ventilation, air conditioning and refrigeration to serve humanity and promote a sustainable world through research, standards writing, publishing and continuing education.



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