

President's Message

By Alana Yip

Thank you to everyone who came out to the last meeting during yet another winter storm. Our meeting dates seem to have had some really bad weather and we really appreciate the efforts you make to attend. However, next week the forecast looks great and we will hopefully see temperatures near 0 degrees! Thank you to Devin Abellon for braving the storm, coming from a desert, and presenting to us on Radiant Cooling Energy Transfer Fundamentals. It gave a great overview of the system.

This month we are privileged to have another ASHRAE Distinguished Lecturer present to us. Lily Wang, Ph.D., P.E., will be speaking to us on Improving Sound Performance in Classroom Environments. See Janel's article for more information on this month's topic.

Again we'd like to apologize for the members that did not receive the past couple meeting invites and/or newsletters to get the information on the meeting dates. We tried a different way to send out the emails and recently found out the later half of the email list was not receiving them. We do apologize. Please note that all the meeting dates are noted in the newsletters and Dan aims to send out the invite and newsletter by Wednesday the week prior. If you do not receive anything by that time, feel free to email us at ashraeregina@gmail.com and let us know. We appreciate your membership and want you to be able to attend all the meetings and we apologize for this error and for the meetings you may have missed.

Meeting Notice

Tuesday March 11, 2014

Hotel Saskatchewan

5:00 – Cocktails
5:45 – Speaker: Lily Wang
6:45 – Supper
7:30 – ASHRAE Chapter Meeting

Upcoming Events

April 9, 2014
Student Night; speaker Leslie Jonsson
May 14, 2014
Tour of Centre Square Place

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Pile of Bones

President's Message Continued

We are still working at finalizing the date for next month's meeting, Student Night, with the University and their class/final schedule. It is tentatively set for April 9th and will be confirmed as soon as possible. It will be held at the University Club again. This is a great opportunity to see the design projects these students have done and support them, as they are the future of our industry. (and Society!)

The ASHRAE Webcast, Buildings in Balance : IEQ and Energy Efficiency, is on Thursday, April 17th and will be held in the SaskTel Auditorium. An invite will be sent out before the end of the month, so we can get a number of attendees for lunch. Watch your emails!

A final reminder to those who have not paid their chapter dues yet, please submit payment ASAP. If you need an invoice still, please contact Brad Huber at b.huber@cypressales.com or 306-757-5656.

Stay warm and see you on TUESDAY, March 11th!

CONGRATULATIONS to Shane Wilkes and his wife Lacey on the birth of their new son Grey Curtis Wilkes, born February 1st at 6:30 AM. Grey came in at 6lbs 13oz and 20" long.



Committee Chair Reports

Programs

by Janel Walter



Lily Wang, Ph. D., P.E.

Associate Professor, University of Nebraska

This month, if we are lucky and the weather cooperates, we will be delighted to welcome Dr. Lily Wang to Regina to speak to us on classroom acoustics. Dr. 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 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 from the state of Oregon in 2007.

Acoustics That Make the Grade: Improving Sound Performance in Classrooms

The presentation will review 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 acoustic design in these environments, particularly with regards to the 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.

Research Promotion

by **Carla Spriggs**

The 2014 Annual Conference Sustainability Project has been selected to help fund the Seattle Nativity School

(<http://www.seattlenativity.org/about-us/>). This is a middle school in Seattle, based on a proven model from the 1970's in New York City.

The idea is to take underprivileged young middle school children from homes with single parents, or other disadvantages, bring them to school early each morning and provide a healthy breakfast to start their school day. Lunch is provided, as well as dinner. They are returned home each night with all their homework completed, ready to just relax and spend time with their family. The program goes year round, with some extended vacations around Christmas, a couple weeks in summer, etc. The school is also heavily based on the STEM curriculum.

The school is working from a start-up budget and can only afford to rent space in the basement

of a church built in 1911. The heating and ventilation system is in very poor shape. The goal of the sustainability project in conjunction with the ASHRAE Annual meeting is to raise money to install a new boiler, new ERV's and adding hydronic heat and ventilation.

Contributions can be made on-line at www.ashrae.org/supportpugetsound. Last year, the Rocky Mountain Chapter raised about \$80,000 for their project during the Denver Annual Meeting. Cheques can be made payable to ASHRAE – 2014 Sustainability Project and sent to ASHRAE Headquarters:

ASHRAE RP

Attn: Patricia Adelman

17991 Tullie Circle

Atlanta, GA 30329

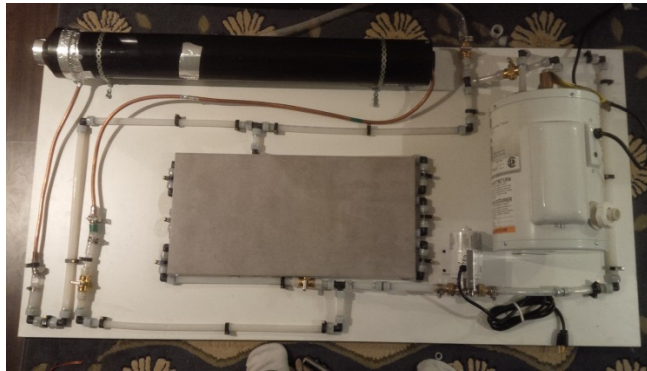
Or you can contact me at 306-525-9815 and I would be please to make sure your donation is submitted.

Student Activities

by Jared Larson

This past month we went to the U of R for a presentation. After receiving feed back from the students, the former pump / heat transfer model was updated. This year I built the apparatus on a board which could be easily transported and very easy to see for the class. It consisted of a water heater for a boiler, circulator pump, section of radiant floor and a small fan coil. Six volunteers were given instructions to operate their component. This gives the appreciation of

the control system operation. One of the students was in charge of creating the trend data, and another ran the infrared camera which was hooked up to a second projector. This allowed the entire class to observe the heat transfer while watching the trend graph appear. Another interesting lesson learned was to avoid dead heading the pump. In our example they had shut all the valves off near the end of the experiment and eventually tripped the pump overload.



Heating apparatus

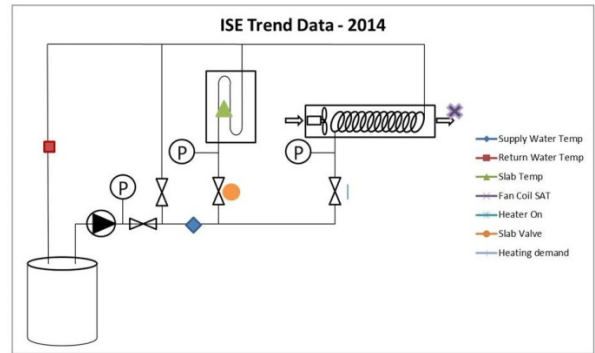


“Control system”



Slick presentation

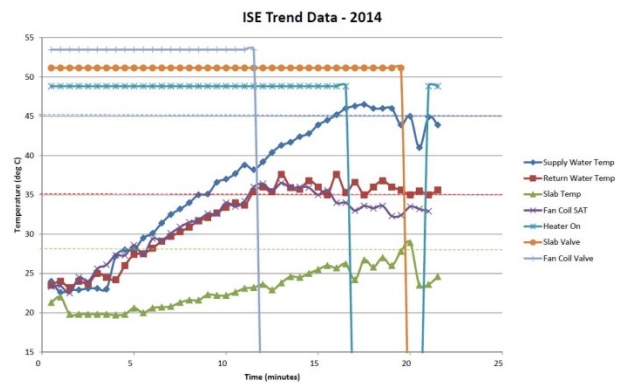
Sample Data - Analysis



Schematic



Thermal image of heating loop



Results

Ways and Means

by Wayne Tkatch

As hard as it is to think about golf with the snow and harsh winter, it is inevitable that spring and summer will be here. As such, it is time again to start thinking about the upcoming ASHRAE Research Promotion Golf Tournament. We will be doing a joint golf tournament again this year with the Mechanical Contractors' Association (MCA), and the tournament will be held on Thursday June 12, 2014 at the Deer Valley Golf Course. The tournament will involve an 18 hole Texas scramble format, with teams of 4 players, and the proceeds will be split between MCA and ASHRAE Research.

The tournament sold out last year with great success, and everyone who attended had a great time at the tournament. So please make sure you plan to attend, and definitely sign up early as you can this tournament will again sell out fast this year with this including both ASHRAE and MCA. The tournament limit will be 144 golfers, and you can sign up as a team or individually. More details on the tournament will be coming out shortly with the registration forms, but please pencil this date on your calendars as we would like all of our ASHRAE members to attend. We will also be looking for golf prize donations of any amount and type from any ASHRAE or industry members. So please consider this and contact myself, Jason Danyliw or Heric Holmes if you have any prizes that you would like to donate. We can make arrangements to pick them up, and any prizes are appreciated.

Looking forward to seeing all our members out for another fun tournament this year!

Brought to you by the ASHRAE Chapter Technology Transfer Committee



Buildings in Balance: *IEQ and Energy Efficiency*

April 17, 2014 | 11:00AM - 2:00 PM CST @ the SaskTel Auditorium
Lunch provided by HDA Engineering
Registration details to follow in coming weeks

Presenters



2013-14 ASHRAE President
William P. "Bill" Bahnfleth, Ph.D.,
P.E., Fellow ASHRAE, ASME Fellow



James W. Bochat, LEED-AP, NEBB Cx,
NEBB TAB



Tim McGinn, PEng., LEED



Jerry M. Sipes, Ph.D, P.E.

This webcast will feature industry experts who will identify the link between energy efficiency and Indoor Environmental Quality (IEQ) through the integrated design process. Viewers will be able to recognize the importance of the four cornerstones of IEQ and how system selection can benefit both energy efficiency and IEQ.

EARN PDHs!

Attend this FREE webcast program and you may be awarded three Professional Development Hours (PDHs) or three AIA Learning Units (LUs).

www.ashrae.org/ieqwebcast

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