



Pile of Bones

Published by the Regina Chapter of ASHRAE

President's Message

by Jason Danyliw

Thank you to ASHRAE Distinguished Lecturer Peter Simmonds for joining us last month, and providing a very interesting presentation on High Performance Buildings and Occupant Comfort.

This month's meeting is Student Night, so please plan to attend to support our students and witness some very interesting U of R 4th year engineering project presentations. We will also be presenting and voting on the budget for the next operating ASHRAE year (2012/2013). So please try to attend so you can have a say where your Chapter dues get spent.

The 2012 Spring ASHRAE Region XI Chapter Regional Conference (CRC) will be held this May in Winnipeg, Manitoba. With that quickly approaching, we are looking for any project presentation entries for technology awards, along with any motions to be presented during the business meetings. Please contact Carla Spriggs or myself with a project entry and/or motion to be presented, and we will arrange for that to happen.

Just a reminder that the next ASHRAE webcast is scheduled for April 19, 2012, where the topic will be "Dedicated Outdoor Air Systems – Balancing Energy and IEQ". This free webcast will be held at the SaskTel Auditorium from 11:00 – 2:00 p.m., with HDA Engineering covering lunch. Further details are included later in the newsletter.

Hope you can all make it to the meeting!

Meeting Notice

Wednesday, April 4, 2012
Student Night

Hotel Saskatchewan - Radisson Plaza

2125 Victoria Avenue, Regina, SK

5:15 pm - Cocktails

5:45 pm - **Student Night**

6:45 pm - Dinner Buffet

7:30 pm - ASHRAE Chapter Meeting

Upcoming Events

April 19 - ASHRAE Webcast: Dedicated Outdoor Air Systems

May 8 - Next Chapter Meeting/Building Tour

May 24 - ASHRAE Research Golf Tournament

May 31 - Variable Speed Pumping Seminar

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2011/2012 MEETING & EVENT SCHEDULE

September 14, 2011

*Speaker: Mr. Kevin Korecki;
Air to Air Recovery Technologies and Applications*

October 12, 2011

*Distinguished Lecturer: Dennis Knight;
Building Information Modeling (BIM) for the
Mechanical Disciplines*

November 9, 2011

*Distinguished Lecturer: Paul L. Pieper;
Meeting and Exceeding High Performance
Standards, Codes and Guidelines*

December 2011: November 25th

Christmas Social Event: Dinner and CSI Regina

January 10, 2012

Presidential Visit - Ron Jarnagin

January 21 - 25, 2012

*ASHRAE Winter Conference & AHR Expo
in Chicago, IL*

February 15, 2012

*Speaker: John Dipple
Contract Law & Emails*

February 25, 2012

*John Ross Curling Event in Edmonton, AB
<http://region11.ashraeregions.org/John%20Ross%202012%20NAC.PDF>*

March 14, 2012

*Distinguished Lecturer: Peter Simmonds; High
Performance Buildings and Occupant Comfort*

April 4, 2012

Student Night

April 19, 2012

ASHRAE Webcast : Dedicated Outdoor Air Systems

May 8, 2012

Building Tour; Co-Operators Centre

May 24, 2012

ASHRAE Research Golf Tournament



COMMITTEE CHAIR REPORTS

Student Activities and YEA Chair

by Janel Walter

This month's meeting we are excited to welcome three groups of students from the U of R to present their fourth year projects to us. They have been working on these for over a year and are excited to see their projects come to a close. This is the final assignment determining graduation and all students have been anticipating this moment since they began their journey years ago.

Project Day at the University will be held March 31st and the public is welcome and encouraged to attend. If you are interested in attending please visit the U of R webpage for more information. <http://www.urengineering.ca/announcements/project-day-2012-is-on-march-31-youre-invited>

We have invited a few to present one more time and share with us what they have accomplished. This year we have Johann Kriek and Daniel Hladky presenting their project on Automated Zoned Heating Management System, Sherron Campbell and Sylvia Dziak presenting Cold Climate Alternative Energy for a Northern Mine and our third presenter is to be announced.

Join us April 4th to support our local engineering students and reward them for their hard work on their final project!

President Elect & Programs Chair

by Carla Spriggs

This month we are pleased to welcome our students from the University of Regina to present their final projects. Please come out and support our students. We will also be voting for next year's budget and board members. If anyone is interested in a position on the board please let me know so we can put your name forward during voting. Please send an email to cspriggs@hdaeng.com if you have any interest. We also have committees with the board, so if you do not feel that you can give the board a lot of your time then it would be great if you could help out on one of these committees.

Next month we will be moving the meeting to Tuesday, May 8th, instead of the Wednesday. We will be touring the Co-Operators Centre at Regina Exhibition Park. The tour will be led by Tom Atkins from Stantec. Stantec completed the mechanical design for the project. We will be having a supper meeting at the Queensbury facility after the tour is completed. More details will be forthcoming in late April. Please make sure that you RSVP for this event as we will want to know if we require more than one group on the tour.

Please join us on April the 4th at the Hotel Saskatchewan for the student presentations.

Past President & Research Chair

by Heric Holmes

The annual research drive has started. Our chapter has emailed most of you in the last week in order to start our donation drive. I look forward to hearing from most of you in the next few weeks. If you haven't donated before or have not been contacted yet, and would like to donate, you can contact me at h.holmes@mac-eng.ca or 586-7972 and I will help you. You can also donate at <http://ASHRAE.org/donate>. Thank you in advance!

Standard 90.1-2010 Addenda for Public Review

To: TC 9.9 members

I received the notice below that Data Center addenda AP to ASHRAE 90.1 – 2010 edition is now out for public review.

Addenda AP (highlighted below) proposes PUE as an alternative compliance path to conformance with Chapter 6 of 90.1, the building energy standard. As noted in the public release, this is a significant issue.

I strongly encourage you to take some time to submit public review comments in support of this industry revolutionizing proposal by clicking on the following link and following the “Instructions for Commenter’s” (<http://www.ashrae.org/standards-research--technology/public-review-drafts>) . Login is required using your existing ASHRAE user name and password. If you don’t have one, you will be able to create it. Scroll down until you see this:

BSR/ASHRAE/IES Addendum ap to ANSI/ASHRAE/IES Standard 90.1-2010, Energy Standard for Buildings Except Low-Rise Residential Buildings.

It’s a long list, so make sure you select the correct one.

TC9.9 voting members and leadership believe this addenda is extremely important to our industry as it provides a “non-modeling” compliance path to meeting the Standard. This alternative compliance path will enable those highly innovative data centers to continue innovating and pushing the boundaries of new cooling technology without being bound by prescriptive based regulation. However, TC9.9 voting members and leadership do recognize the aggressive requirements of the PUE values proposed, this was necessary to get this alternative compliance path through the 90.1 committee by demonstrating “equivalency” to the current prescriptive path requirements, which require economizers. Note, the PUE values in 90.1 are DESIGN calculations and may be in the form of a hand calculation or other calculation tools as either a peak or annualized value.

Without an alternative compliance path, many innovative forms of cooling technology will no longer be an option where the 2010 edition of 90.1 is adopted by the States, the IECC, and/or the DOE. The 90.1 white paper on TC9.9’s website (<http://tc99.ashraetcs.org/>) includes additional background information on 90.1 and its applicability to Data Centers.

If you have any questions or need assistance in submitting any comments, please feel free to contact David Quirk or Rick Pavlak from the committee.

I look forward to your continued support of our industry and ways of improving energy efficiency in Data Centers.

Thank you,
Jack Glass
Chair TC9.9

These drafts are scheduled for a 45-day public review from **March 23, 2012 to May 7, 2012**:

1. BSR/ASHRAE/IES Addendum AP to ANSI/ASHRAE/IES Standard 90.1-2010, *Energy Standard for Buildings Except Low-Rise Residential Buildings* (First Public Review Draft)

This addendum proposes a new alternative path (power usage effectiveness- PUE) to allow the use of developing technologies for the data center industries for which there are no energy modeling tools available. This is a significant issue to design professionals in that without a simulation program available to model these systems, they have to receive approval from the Authority Having Jurisdiction (AHJ) for an Exceptional Calculation Method, which in most cases is beyond the AHJ’s knowledge level.

ASHRAE Webcast Highlights Dedicated Outdoor Air Systems



Tim McGinn, P.E., LEED AP
DIALOG
Calgary, AB, Canada

Dr. Stanley Mumma, LEED AP
Pennsylvania State University
University Park, Pennsylvania

John Murphy, LEED AP
Trane Company
LaCrosse, Wisconsin

While conventional HVAC systems mix fresh outdoor air with the return air in one unit, Dedicated Outdoor Air Systems use standard equipment to condition fresh air separately before it enters the building. This departure from the standard configuration is quickly becoming a proven tool for utilizing energy more efficiently, and can provide a cost saving to the consumer. The major benefit of Dedicated Outdoor Air Systems is that they can allow better and more precise humidity and ventilation control as compared to conventional HVAC systems.

ASHRAE's upcoming webcast "**Dedicated Outdoor Air Systems– Balancing Energy and IEQ**" will focus on this method to save energy and money at the same time. The webcast takes place on **April 19, 2012, from 1:00 – 4:00 p.m. EDT**. This **free** webcast is brought to you by the Chapter Technology Transfer Committee and sponsored by **Valent Air Management Systems, Rotor Source, Inc., Engineered Air, and Heat Pipe Technology**.

"Based on growing popularity the chosen topic for the 2012 webcast is Dedicated Outdoor Air Systems," Andy Cochrane, Chair of the CTTC Webcast Ad Hoc Committee, said. "This webcast will describe the role of DOAS in the overall HVAC system, and discuss various DOAS equipment configurations and applications. From understanding DOAS system characteristics, to avoiding pitfalls and challenges unique to DOAS applications, the webcast is a must see for discerning owners and designers alike."

The webcast presenters are:

Tim McGinn, P.E., LEED AP, Principal, DIALOG, Calgary, Alberta, Canada

Stanley Mumma, Ph.D., P.E., Professor Emeritus of Architectural Engineering, Pennsylvania State University, University Park, Pennsylvania

John Murphy, LEED AP, Applications Engineer, Trane, LaCrosse, Wisconsin

This event is on Thursday, April 19th from 11:00 am - 2:00 pm.
It is being held at the SaskTel Auditorium and
lunch will be provided by HDA Engineering.
Please RSVP by Tuesday, April 17th to ashraeregina@gmail.com.
(You will need to bring photo ID for SaskTel Security)

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