



Pile of Bones

Published by the Regina Chapter of the American Society of Heating, Refrigerating and Air Conditioning Engineers

President's Message

by Heric Holmes

Happy New Year!

This month's meeting will be the presidential visit with Lynn Bellenger. Lynn's presidential theme is, Modeling a Sustainable World. Lynn will also have a brief meeting at 5:00pm with the members of YEA. Any member aged 35 or younger is welcome to attend. These will be held on January 11th.

Thanks to everyone who attended the Christmas party. The party was at Casino Regina and featured a night of entertainment with the Blues Brothers Revue. Trevor did a great job organizing it. Everyone appeared to have a good time. It was also nice to see so many members and significant others out.

Towards the end of the month many of us are headed to the ASHRAE Winter Conference in Las Vegas. It's not too late to register!

In February we will have the pleasure of listening to Tim McGinn present on European Technologies. This meeting is on Wednesday, February 9th.

This year will be very exciting and I hope to see everyone at the ASHRAE meetings this year.

Program for January

ASHRAE Society Presidential Visit – Lynn Bellenger, from Pathfinder Engineers and Architects LLP in Rochester, N.Y., will present on "Modeling a Sustainable World", wherein powerful modeling tools can be used to enable us to create and refine our vision of a building to help optimize building performance. She will also discuss the challenges and necessity of implementing integrated design in daily practice.

Meeting Notice

Tuesday, January 11, 2011
ASHRAE Presidential Visit!

Hotel Saskatchewan - Radisson Plaza
2125 Victoria Ave. Regina, SK

5:00 pm - YEA Meeting with Lynn

5:15 pm - Cocktails

5:45 pm - **ASHRAE President:**

Lynn Bellenger

Modeling a Sustainable World

6:45 pm - Dinner

7:30 pm - Chapter Meeting

Upcoming Events

January 28-Feb 3, 2011 - ASHRAE Winter
Conference in Las Vegas
www.ashrae.org/lasvegas

February 9, 2011 - Next Chapter Meeting

February 26, 2011 - John Ross Curling Event
in Saskatoon

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<http://regina.ashraechapters.org/>



2010/2011 MEETING & EVENT SCHEDULE

September 15, 2010

Tech. Talk: Ed Niznik of Refrigerative Supply Ltd.

Speakers: Garry Wasyliw, Manager of Building Standards & Brian Woronoski, Manager of Mechanical Review from the City of Regina

October 14, 2010

Distinguished Lecturer: Tom Watson - ASHRAE

Overview & Updates

November 10, 2010

Panel Discussion on "Commissioning for High Performance Buildings"

November 25, 2010

Christmas Social Event: Casino Regina Show Lounge (Featuring the Original Blues Brothers Revue & Learn to Gamble)

January 11, 2011

Presidential Visit - Lynn Bellenger

February 9, 2011

Distinguished Lecturer: Tim McGinn – European Technologies and their applications in North America

March 9, 2011

Tentative Tour: Loblaw's Facility

April 13, 2011

Student Night

April 21, 2011 -

ASHRAE Society Satellite Webcast
Ground Source Heat Pump Systems –
Putting the Earth to Work for You

May 11, 2011

Tech Talk: TBD

Speaker: TBD

June 2011

ASHRAE Research Golf Tournament
Date TBD



COMMITTEE CHAIR REPORTS

President Elect & CTTC

by Jason Danyliw

I hope you all had a wonderful Holiday season, and a Happy New Year!

Last month's meeting was the Christmas Social Event that was held at the Casino Regina Show Lounge. The evening comprised of dinner, entertainment by the Original Blues Brothers Revue, along with a learn to gamble session afterwards. It was very well attended, and a great evening of entertainment! Thank you to all those that attended, and I believe a great time was had by all.

This month, we have the privilege of having an ASHRAE Society Presidential visit. Lynn Bellenger (P.E., Fellow ASHRAE, Pathfinder Engineers and Architects LLP in Rochester, N.Y.) will present on "Modeling a Sustainable World". She will discuss the use of powerful modeling tools, such as energy simulation, daylight analysis, CFD and BIM software, to enable us to create and refine our vision of a building – its appearance, systems, operation and performance. These tools can not only be used for new buildings, but

also in retrofit opportunities to help those involved to optimize building performance. She will also discuss the biggest challenge, which is implementing integrated design in daily practice, and allowing for all designers on a project to collaborate from the beginning to help optimize building performance.

About Lynn Bellenger:

- Lynn G. Bellenger, P.E., Fellow ASHRAE, is a partner with Pathfinder Engineers and Architects LLP in Rochester, N.Y.
- Lynn is ASHRAE certified as a Building Energy Modeling Professional and a High Performance Building Design Professional
- She is the first female president in the ASHRAE Society's 116 year history
- As ASHRAE's president, Lynn directs the Society's Board of Directors and over-see's the Executive Committee
- Lynn formerly served as president-elect, treasurer and vice president with ASHRAE
- Lynn is a recipient of the Exceptional Service Award, the Distinguished Service Award, two first-place ASHRAE Technology Awards and the

Lincoln Bouillon Membership Award

- She received a Bachelor of Science in mathematics from Principia College and a Master of Science in environmental science from Rutgers University

We look forward to seeing you all at the upcoming meeting to welcome Lynn, to hear a very interesting presentation, and to also show our continued support for the Regina ASHRAE Chapter.

We have the great opportunity to have Tim McGinn, ASHRAE Distinguished Lecturer, visit us for our February meeting, and he will be speaking on European Technologies and their Application in North America. More details will follow in next month's newsletter.

There is currently one meeting that presentations are not yet confirmed, and this is the May meeting. If anyone has a suggestion for the May meeting program (or any other comments pertaining to the programs), please feel free to contact me at jason@skhvac.com.

Vice President & Newsletter

by Alana Yip

Just a reminder that the next YEA (Young Engineers in ASHRAE) Leadership Weekend is April 1-3, 2011 in Denver. If anyone is interested in attending, please let me know at alana.yip@sasktel.sk.ca. To attend, you need to be 35 years of age or younger and an ASHRAE member. You do not need to be an engineer. It's a great opportunity to meet other young people in the industry and learn about becoming a leader in our workplaces and within ASHRAE. The registration deadline hasn't been announced yet, but you should express your interest to me before February 1st, 2011.

As well, for those going to the Winter Conference, the YEA Hospitality Suite is held on Sunday, January 30th from 4-7 pm.

Historian

by Jerry Boulanger

The Saskatoon Chapter has booked ice for **Saturday, February 26th** to hold the John Ross curling competition. Our Chapter has rarely missed sending a rink to defend our honour at this event. It's always a good time.

Please let me know if you are interested in making the trip. We travel to Saskatoon in the morning and return

that evening. There is no cost and you do not need to be an experienced curler.

If you are interested in participating please contact me – 352-0656 or jclan@sasktel.net.

Student Activities

by Janel Walter

It's time for handbooks! The engineering students are taking their mechanical systems class now and are in need of handbooks! A reminder to all chapter members if you have any old ASHRAE handbooks, can you please bring them to January's meeting, so we can donate them to the University of Regina. If you have handbooks to donate and cannot bring them to the meeting, please contact me at jwalter@hdaeng.com to make arrangements to get them to the University.

ASHRAE HVAC&R Industry eNewsletter

If you wish to subscribe to the ASHRAE HVAC&R Industry eNewsletter, e-mail subscribe-enews@ashrae.org with "Subscribe this address to The HVAC Industry eNewsletter" in the e-mail subject line.

ASHRAE HVAC&R Industry eNewsletter

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ASHRAE Learning Institute

The ASHRAE Learning Institute is offering on-line courses. There are 2 ways to register:

1. Internet : <http://www.ashrae.org/onlinecourses>

2. Phone: Call toll-free at 1-800-527-4723

NOTE: You may register up to 24 hours prior to an online seminar. Courses are in Eastern Time Zone.

ASHRAE Brings Hot Topics to AHR Expo Attendees

ATLANTA – Guidance on industry hot topics is being provided from ASHRAE through two free sessions at the AHR Expo® in Las Vegas, Nev.

A Practical Guide for Reducing Air Leakage in HVAC Air Systems takes place Monday, Jan. 31, 2:15-3:45 p.m., while an update on Standard 90.1 – 2010 Update: How It Affects You takes place on Tuesday, Feb. 1, 2:15-3:45 p.m. The two sessions offer Show attendees 1.5 PDHs each for a total of 3.

Monday's session focuses on the fact that excessive air leakage in HVAC systems is known to be a significant source of energy waste. This session identifies the current standards, guidelines and project specification that influence air leakage and highlights the roles and responsibilities of the engineer, contractor and manufacturer to assure they meet our common goal of reducing air leakage in HVAC systems.

The Tuesday session provides an update on ANSI/ASHRAE/IESNA Standard 90.1-2010, Energy Standard for Buildings Except Low-Rise Residential Buildings. With well over 100 addenda incorporated since the 2007 edition, this session highlights some of the major changes in 2010 standard.

Both sessions are held in Room N256 of the Las Vegas Convention Center. No ticket or badge is required for admittance.

The 2011 ASHRAE Winter Conference is held in conjunction with the Expo and runs Jan. 29-Feb. 2 at the Las Vegas Hilton. Additional courses and sessions are offered through the Conference's Technical Program and the ASHRAE Learning Institute. More information can be found at www.ashrae.org/lasvegas.

ASHRAE Applauds Signing of Federal Buildings Personnel Training Law of 2010

ATLANTA – Federal legislation signed into law this week will provide training for federal building personnel in the areas of building operations and maintenance, energy management, safety and design functions.

On Tuesday, Dec. 14, President Obama signed the Federal Buildings Personnel Training Act. The Act was introduced in April by Reps. Russ Carnahan (D-Mo.) and Judy Biggert (R-Ill.) and Sen. Tom Carper (D-De.) and Susan Collins (R-Me.). It was supported by more than 33 leading organizations involved in the

design, construction, operation and maintenance of buildings, including ASHRAE.

The legislation will help provide federal workers with the necessary training to construct and maintain environmentally sound buildings. Federal workers will be able to be trained in a series of core competencies relating to building operations, maintenance, energy management, and safety and future performance. Workers can take courses and be able to obtain licenses and certification for their efforts.

"This law is a significant advancement for the design, construction, operation and maintenance of our nation's federal buildings," Lynn G. Bellenger, ASHRAE president, said. "ASHRAE applauds the federal government for demonstrating what can be accomplished in building and maintaining energy efficient buildings with excellent indoor environmental quality."

ASHRAE: Standard 189.1 Adopted as Part of Army Sustainability Policy

ATLANTA – ASHRAE leaders recently met with U.S. Army officials regarding a new sustainable design and development policy that incorporates requirements of the green building standard developed by the Society, USGBC and IES.

The U.S. Army has made it a matter of policy to promote sustainability and improve green building standards for its facilities. On Oct. 27, 2010, Katherine Hammack, assistant secretary of the Army for installations, energy and the environment (IE&E), issued a policy memorandum that incorporates ANSI/ASHRAE/USGBC/IES Standard 189.1-2009, *Standard for the Design of High-Performance, Green Buildings Except Low-Rise Residential Buildings*.

The Army's policy sets a new approach to the design and construction of efficient military construction projects and major renovations by using Standard 189.1 as the baseline. The policy requires that facility construction projects follow specified requirements and guidance in the standard. These requirements address siting, energy efficiency, cool roofs, metering, storm water management and indoor and outdoor water consumption.

“After nearly four years of peer review and collaboration with various members of industry, we are extremely pleased that the Army has taken up the initiative to incorporate the standard into its day-to-day practices,” Lynn G. Bellenger, ASHRAE president, said. “The Army is clearly committed to taking the lead within the military to incorporate innovative practices proven by the private sector. Their willingness to adopt this standard speaks volumes about its value and efficacy.”

The net effect of the Army’s sustainable design initiative is likely to be immense. The policy applies to all construction and renovation of new buildings and structures in the U.S. territories, permanent overseas Active Army installations, Army Reserve Centers, Army National Guard facilities and Armed Forces Reserve Centers. The footprint of the existing Army buildings and structures worldwide covers more than 954 million square feet.

“We are committed to sustainable design and development but our commitment extends far beyond construction and renovation savings,” Hammack said. “We are on a path to integrating energy and sustainability considerations into our fundamental way of thinking as we progress toward net-zero energy, water and waste in buildings and installations.”

ASHRAE leadership and Army officials discussed how the Society could continue development and stringency of Standard 189.1 to provide guidance toward net-zero buildings. Additionally discussed were how ASHRAE can help fulfill the Army’s training needs regarding the standard and how 189.1 fits in to Army’s long-term plans to make their facilities more sustainable.

Standard 189.1, published earlier this year by ASHRAE in conjunction with the Illuminating Engineering Society of North America (IES) and the U.S. Green Building Council (USGBC), provides a long-needed green building foundation for those who strive to design, build and operate green buildings.

Standard 189.1 also serves as jurisdictional compliance option to the International Green Construction Code authored by the International Code Council, ASTM International and the American Institute of Architects.



ASHRAE Learning Institute

Seminars & Courses at ASHRAE's Winter Conference in Las Vegas, NV

2 WAYS TO REGISTER

Internet: www.ashrae.org/lasvegascourses

Phone: Call 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 29 – 8:00 a.m. to 3:00 p.m.

Healthcare Facilities: Best Practice Design and Application

Saturday, Jan 29 – 8:00 a.m. to 3:00 p.m.

Complying with ASHRAE/IES Standard 90.1-2010

Saturday, Jan 29 – 8:00 a.m. to 3:00 p.m.



Implementing Energy Management in New and Existing Buildings: A Sustainable Activity

Saturday, Jan 29 – 8:00 a.m. to 3:00 p.m.

Integrated Building Design

Saturday, Jan 29 – 8:00 a.m. to 3:00 p.m.

Energy Modeling Best Practices and Applications: HVAC/Thermal

Tuesday, Feb 1 – 9:00 a.m. - Noon, 2:00 p.m. - 5:00 p.m.

Half Day Short Courses

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

Fundamental Requirements of ASHRAE Standard 62.1-2010

Saturday, Jan 29 – 8:00 a.m. to 11:00 a.m.



Understanding Air-to-Air Energy Recovery Technologies and Applications

Sunday, Jan 30 – 2:00 p.m. to 5:00 p.m.

Using Standard 90.1 to Meet LEED Requirements

Sunday, Jan 30 – 2:00 p.m. to 5:00 p.m.

Determining Energy Savings from Performance Contracting and LEED Projects: M&V

Monday, Jan 31 – 2:30 p.m. to 5:30 p.m.

Understanding & Designing Dedicated Outdoor Air Systems (DOAS)

Tuesday, Feb 1 – 9:00 a.m. to Noon

Successful Solar Applications for Commercial & Industrial Facilities

Tuesday, Feb 1 – 9:00 a.m. to Noon

District Cooling & Heating Systems: Central Plants

Tuesday, Feb 1 – 2:00 p.m. to 5:00 p.m.

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

Saturday, Jan 29 – Noon to 3:00 p.m.



Chilled Beam Technology for Excellent Indoor Climate in an Energy Efficient Manner

Sunday, Jan 30 – 2:00 p.m. to 5:00 p.m.

The Commissioning Process & Guideline 0

Monday, Jan 31 – 2:30 p.m. to 5:30 p.m.

Understanding Standard 189.1-2009 for High-Performance Green Buildings

Monday, Jan 31 – 2:30 p.m. to 5:30 p.m.

Low Temperature Radiant Heating & High Temperature Radiant Cooling Systems

Tuesday, Feb 1 – 9:00 a.m. to Noon

Avoiding IAQ Problems: Using ASHRAE's New IAQ Guide

Tuesday, Feb 1 – 2:00 p.m. to 5:00 p.m.

Designing Toward Net Zero Energy Commercial Buildings

Tuesday, Feb 1 – 2:00 p.m. to 5:00 p.m.



Get web-based training you can trust, anytime, anywhere, and earn PDHs/CEUs in the process.

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ASHRAE Certification Programs

Take advantage of ASHRAE's special pencil & paper administration of our certification examinations on Wednesday Feb. 2, 2011, in conjunction with the 2011 ASHRAE Winter Conference.

- Building Energy Assessment Professional (BEAP)
- Building Energy Modeling Professional (BEMP)
- Commissioning Process Management Professional (CPMP)
- Healthcare Facility Design Professional (HFDP)
- High-Performance Building Design Professional (HBDP)
- Operations & Performance Management Professional (OPMP)

For more info, visit www.ashrae.org/lasvegas/certification

New Publications from ASHRAE

- ☐ *Standard 189.1-2009: Standard for the Design of High-Performance Green Buildings (A Jurisdictional Compliance Option of the IGCC)*
- ☐ *Standard 189.1-2009 User's Manual (A Jurisdictional Compliance Option of the IGCC)*
- ☐ *ASHRAE GreenGuide 3rd Edition – The Design Construction, and Operations of Sustainable Buildings*
- ☐ *ASHRAE Standard 90.1-2010: Energy Standard for Buildings Except Low-Rise Residential Buildings*
- ☐ *ANSI/ASHRAE 55-2010 – Thermal Environmental Conditions for Human Occupancy*
- ☐ *ANSI/ASHRAE 62.2-2010 – Ventilation for Acceptable Indoor Air Quality in Low-Rise Residential Buildings*
- ☐ *ANSI/ASHRAE 62.1-2010 – Ventilation for Acceptable Indoor Air Quality*
- Package:**
 - ☐ *ANSI/ASHRAE 15-2010 – Safety Standard for Refrigeration Systems*
 - ☐ *ANSI/ASHRAE 34-2010 – Designation and Classification of Refrigerants*

Visit www.ashrae.org/bookstore to order

ASHRAE Holds the Sustainability Cards

Join ASHRAE at the 2011 Winter Conference, Jan. 29–Feb. 2, Las Vegas, Nevada



A full-house of professional and personal development activities are offered!

Technical Program—focused on the efficient use of energy, the greening of the industrial base, the real cost of zero-energy design

Register before
November 5 and SAVE!

The early bird fee is \$505
(\$685 non-members)



Virtual Conference—if you can't make it to Las Vegas, don't miss out on the knowledge shared in the technical program with the Virtual Conference

AHR Expo—the ASHRAE co-sponsored AHR Expo takes place Jan. 31–Feb. 2 at the Las Vegas Convention Center. www.ahrexpo.com

ASHRAE Certification—launch of a sixth certification program, targeting building energy assessors. Five existing certification programs also offered

ASHRAE Learning Institute—offers six Professional Development Seminars and 14 Short Courses – includes a new course on building energy modeling and updates to courses covering Standards 62.1 and 90.1

www.ashrae.org/lasvegas



Concurrent with the ASHRAE Winter Conference . . .



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- Special Exhibits and Presentations on new technologies promoting energy efficiency and sustainability
- 2011 AHR Expo Innovation Awards

*Expo **co-sponsored by**
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Las Vegas Convention Center
adjacent to the Hilton.*

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