



BUFFALO TALES

Newsletter of the Manitoba Chapter

The Manitoba Chapter of the American Society of Heating, Refrigerating and Air Conditioning Engineers was chartered in September 1935. It is the second oldest ASHRAE Chapter in Canada. ASHRAE Manitoba is part of ASHRAE Region XI and covers ASHRAE members in Manitoba and Northwest Ontario.



ASHRAE Supper Meeting
Victoria Inn, 1808 Wellington Avenue
Thursday January 13, 2011

Young Engineers in ASHRAE night

5:00 pm - Cocktails

6:00 pm - Dinner

7:00 pm –Presentation, TBD

Due to some difficulties, the program for our meeting has yet to be finalized. Details will be emailed on Monday of next week.

CONFIRM YOUR ATTENDANCE by January 11, 2011 by emailing Stephen Norsworthy at stephen.norsworthy@snclavalin.com. Indicate any special meal requirements (vegetarian, allergies, etc.)

ASHRAE dinner meetings are open to all. The cost to non members is \$45. The cost for a first time guests accompanied by an ASHRAE Manitoba member is \$25. Pre-registration is required. To pre-register or to get information on the cost of ASHRAE events, e-mail stephen.norsworthy@snclavalin.com or visit www.ashraemanitoba.ca.

Presidents Message – Jesse Sandhu



At the New Year, we often look back and look ahead.

The following quote from Bjarke Ingels, a young (born in 1974) Dane and head of the architectural practice Bjarke Ingels Group, looks both back and ahead at architecture.

"Historically the field of architecture has been dominated by two opposing extremes. On one side an avant-garde full of crazy ideas. Originating from philosophy, mysticism or a fascination of the formal potential of computer visualizations they are often so detached from reality that they fail to become something other than eccentric curiosities. On the other side there are well organized corporate consultants that build predictable and boring boxes of high standard. Architecture seems to be entrenched in two equally unfertile fronts: either naively utopian or petrifyingly pragmatic. We believe that there is a third way wedged in the no-man's land between the diametrical opposites - or in the small but very fertile overlap between the two - a pragmatic utopian architecture that takes on the creation of socially, economically and environmentally perfect places as a practical objective."

He has similarly analyzed the engineering side of architecture, with ideas that would have been considered very radical a few years ago but are beginning to affect our practices. "Engineering without engines - use contemporary technology and computation capacity to make our buildings independent of machinery. Building services are mechanical compensations in buildings that are not designed for human life. We pump air around, illuminate dark spaces electrically, and heat and cool the spaces in order to make them livable. The result is boring boxes with big energy bills. If we moved the qualities out of the machine room and back into architecture's inherent attributes, we'd make more interesting buildings and more sustainable cities."

As you look ahead to the New Year, think about Bjarke Ingels comments and how they might "inform" our industry's future.

Coming Events

ASHRAE Manitoba Supper Meetings for 2011 –February 10 Student Night with **ASHRAE Distinguished Lecturer Tim McGinn** speaking about *European Technologies and their Application in North America*. Other chapter meetings are March 10 and April 14. Mark your calendar so you keep these dates open.

January 29 to February 2, 2011 - ASHRAE Winter Meeting and January 31-February 2 - AHR Expo/Trade Show in Las Vegas, aka Lost Wages. The Winter Conference offers over 200 Professional Development Credits, as well as Continuing Education Units, which can be applied toward a Professional Engineering license. The technical program features more than 90

programs and 300 speakers addressing the efficient use of energy in new and existing buildings, refrigeration updates, applications including data centers, laboratories, healthcare facilities, the real cost of zero-energy design and other topics related to design, standards, codes and professional skills. Nearly all of the technical program sessions will be approved by USGBC



for GBCI CE hours for LEED professionals.

The **Las Vegas Virtual Conference** is included with paid attendees' registrations and is also available to non-attendees. So, even if you can't spare the time to go to Vegas for the conference, you can participate in the conference on-line, for a fee. Complete information is available at www.ashrae.org/lasvegas.

January 31, 2011 - Regional Dinner at the ASHRAE Winter Meeting in Las Vegas - a night out with colleagues from your Chapter and others in your Region or any other Region you decide you want to connect with. All are welcome to participate. Manitoba is in Region XI. For details look for a sign up sheet on a bulletin board in the ASHRAE meeting registration/bookstore area with time, location and cost details. There are often other open group dinners posted on the same bulletin board. If you are alone, these are an easy way to find company for supper. If you have to dine with someone you would rather not, this is a great way of meeting that obligation without enduring the full burden of doing so.

April 20 and 21 – Building for Tomorrow – 2011 Better Buildings Conference - For details contact: tom@bomamanitoba.ca

April 21, 2011- ASHRAE WebCast - Ground Source Heat Pump Systems – Putting the Earth to Work for You – noon til 3PM Manitoba time. It has some great speakers and **it's free**. On-line registration begins March 21, 2011. For details on why you should participate and how to register, go to www.ashrae.org/GHPwebcast

May 10 - 13, 2011 - The Future of the Building Envelope ... Building Upon Our Past – the 13th Canadian Conference on Building Science & Technology will be at the Fort Garry Hotel in Winnipeg. For information about this conference including sponsorship opportunities, visit the conference website <http://www.becwinnipeg2011.com/>

September 25-27, 2011 - The Canadian Healthcare Engineering Society 2011 National Trade Show & Education Forum & 31st Annual National Trade Show & Education Forum in Winnipeg Manitoba. The Conference theme is “Sustaining Healthcare Infrastructure”. More detailed information can be found on our website at <http://www.ches.org/en/professional-development/2011-conference.html>.

Wednesday September 28, 2011 – The Canadian Healthcare Construction Course. For details visit <http://www.ches.org/en/professional-development/canadian-healthcare-construction-course.html>.

The major difference between a thing that might go wrong and a thing that cannot possibly go wrong is that when a thing that cannot possibly go wrong goes wrong, it usually turns out to be impossible to get at or repair.

What and Why is YEA?

To ensure the future of the Society and the industry, ASHRAE is committed to advancing its programs and services for young members by helping them build their professional foundations. The primary objective for YEA (i.e., Young Engineers in ASHRAE) is to enhance benefits for young (under 35'ish) ASHRAE members.

Being a member of a leading international technical organization helps you create a solid foundation for your future! YEA Connection is specifically targeted at young ASHRAE members who wish to receive regular communication of interest to young people and who want to network and communicate with one another. It offers a regular newsletter, a free logo item, listserv, and information and updates on special events as they occur. It's a great opportunity to stay up-to-date with Society news and events and network with young professionals around the world.

Who qualifies to be in the YEA Connection?

All members age 35 and younger with the following member grades:

1. Member
2. Associate Member
3. Student Transfer
4. Affiliate Member

To subscribe to the YEA Connection, please send an email to youngengineers@ashrae.org with the following information:

1. Subject line: Subscribe to YEA Connection
2. Message body:
 - a. Your name
 - b. Your member number
 - c. Your physical mailing address
 - d. Your active E-mail address
 - e. Your phone number

February 10 Supper Meeting - ASHRAE Distinguished Lecturer Tim McGinn



Tim McGinn's combined mechanical and electrical degrees, and his LEED® accreditation, put him in a unique position. He has extensive experience in designing mechanical and electrical systems for complex projects but his real passion is a specialization in designing low impact/low energy mechanical and electrical systems for green buildings. As a result, Tim is a frequent lecturer on Green Buildings throughout North America, sharing his broad green building design expertise which includes passive evaporative cooling, indirect evaporative cooling, displacement and underfloor air system, natural and mixed mode ventilation, solar chimneys, solar air preheating, grey water reuse and passive solar heating.

Mr. McGinn is a LEED Accredited Professional and graduated with Electrical and Mechanical Engineering Degrees from University of Saskatchewan with twenty five years experience as a consulting engineer. Tim is based in Calgary and is currently a High Performance Building Design Professional and a principal in the 300 person AE firm DIALOG with offices in Calgary, Edmonton and Toronto. He is a Past President of the Manitoba Chapter of ASHRAE. On

February 10, 2011, he will speak to the Manitoba Chapter about “European Technologies and their Application in North America”.

By way of select case study of Low Carbon/Low Energy from Europe, technologies, approaches and mechanical systems are reviewed and discussed and related to the North American context. The talk uses a Frankfurt commercial speculative office building to highlight an integrated building services strategy that uses simple, cost effective low energy strategies to deliver excellent indoor environmental quality with low operating costs.

ASHRAE Technology Awards - Bert Phillips, ASHRAE Manitoba CTTC Chair

ASHRAE Technology Awards recognize designs that push the envelope. Winning ASHRAE Technology Award submissions typically have the following characteristics:

- demonstrate innovation and creativity
- include data for one full year of post construction operation
- clearly identify and describe unique/special aspects of the project
- graphs, tables and drawings are clear and add value to the text and
- are logical and understandable

From my experience as a Tech Award Judge, my suggestion is that applicants focus their submission on one or two significant design innovations, not the whole building design. Awards aren't given for good design, they are given for innovation that pushes the limits of design. Winners get a plaque and are written up in the ASHRAE Journal.

To qualify for the program, the person submitting a project must be an ASHRAE member and have been part of the design team. Projects are first submitted to the local ASHRAE Chapter competition (judged in mid April), Chapter winners can be forwarded to the Regional competition (judged in early May) and Regional winners can be submitted to the Society level competition which is judged in the fall.

For details and application forms, go to <http://www.ashrae.org/members/page/1646> If you have questions beyond that, I am the local ASHRAE guy responsible for this program.

Career Web Site Available for ASHRAE Members

The ASHRAE Career Center (www.ashraejobs.com) provides a single location for professionals to research career opportunities, including employer profiles and specific job postings. Professionals can post into a resume database and promote themselves to employers. While ASHRAEjobs.com is open to all professionals, ASHRAE members will be showcased by allowing employers to search for ASHRAE Membership and Certifications to find the most qualified candidates.

ASHRAEjobs.com targets professional job seekers and employers/recruits who are seeking to advertise to job seekers and to search resumes. The service is free to job seekers. Employers and job-seekers may visit the site now to register an e-mail address for updates. ASHRAE's Career Center partner is the Industry People Group (IPG).

Cribbage Tournament Results

As usual, the December ASHRAE supper meeting was the Chapter's Cribbage Tournament and as usual it featured a generous prized table as a result of donations from the following ASHRAE supporters:

COMPANY	DONOR
BPL SALES	TRAVIS CLARKE
CARRIER	DEREK PLOUFFE
CENTRAL HYDRONICS	GRANT MILLS
DFC MECHANICAL	DON MOWAT
ECCO HEATING	LARRY DOWBENKO, RICK MCMILLAN
ENGINEERED AIR	CALVIN MORTLEY, JIM SHUTURMA, MARK WINDEATT
IPEX INC.	JIM TURNBULL
MANITOBA HYDRO	GARY BAILLEY, LEAH MACDONALD, JAN PETERS, ERIC SOUQUE
MCW CONSULTANTS	STEVE REABURN
MIDWEST ENGINEERING	DARYL FRIESEN
QUADRA MARKETING AND SALES	GREG DALE
RG SALES CO LTD	ROBERT GLASS
REFRIGERATIVE SUPPLY LTD	MARC MORIN
SMS ENGINEERING	JESSE SANDHU
TOM BEGGS AGENCIES	TOM BEGGS
TOWER ENGINEERING	MIKE HOUVARDAS
TRANE CANADA	ROGER KANE
UNIES LTD	BERT PHILLIPS

The top three tournament players, based on their scores were Glen Middleton, Neil Childs and Derek Plouffe. On behalf of all players, thanks to Garry Bailey for organizing this fun event and thanks to the prize table contributors for once again ensuring that even the lowest scoring player went home with worthwhile gift prizes.

MBCaGBC Courses in Winnipeg

The Manitoba Chapter of the Canada Green Buildings Council is planning to host the following courses:

- LEED Canada Documentation (N.C. 1.1) - Monday February 7, 2011– 7.5 GBCI CE Hours
- LEED Canada NC: Technical Review v. 2009 - March 16, 2011 - 7 LEED Specific, BD&C GBCI CE hours
- LEED Canada for Existing Buildings: Operations and Maintenance - May 12, 2011 - 7 LEED specific, O&M GBCI CE hours / 7 GBCI CE hours

For details, go to [CaGBC WORKSHOPS](#)

ASHRAE Manitoba Chapter Officers

President	Jesse Sandhu	SMS Engineering Ltd	789-2307	jsandhu@smseng.com
President Elect	Johann Baetsen	epp siepman engineering	775-0291	jbaetsen@eppsiepman.com
Vice President	Corey Nation	EH Price	982-2222	coreyn@price-hvac.com
Secretary	Mark Windeatt	Engineered Air	632-8535	mark.windeatt@engineeredair.com
Treasurer	Doug Castor	EHPrice	982-2220	DougC@price-hvac.com
Board of Governors	Sergio Almeida	Geo-Xergy Systems Inc.	333-7774	sergio@geoxergy.com
	Robert Bisson	Public Schools Finance Board	945-8452	robert.bisson@gov.mb.ca
	Devin Evenson	Manitoba Hydro		devenson@hydro.mb.ca
	Stirling Walkes	SMS Engineering Ltd	775-0291	swalkes@smseng.com
Technology Transfer	Bert Phillips	UNIES Ltd	633-6363	phillips@unies.mb.ca
Membership	Stephen Norsworthy	SNC Lavalin Inc.	786-8080	stephen.norsworthy@snclavalin.com
Research Promotion	Daryl Friesen	Midwest Engineering Ltd	989-3636	daryl@midwesteng.mb.ca
Student Activities	Peter Gryc	SMS Engineering Ltd	789-2346	pgryc@smseng.com
Honors and Awards				
Newsletter Editor	Bert Phillips	UNIES Ltd	633-6363	phillips@unies.mb.ca
Homepage Editor	Devin Evenson	Manitoba Hydro		devenson@hydro.mb.ca
Administrator	Russell Lavitt	SMS Engineering Ltd	789-2312	rlavitt@smseng.com
Programs	Russell Lavitt	SMS Engineering Ltd	789-2312	rlavitt@smseng.com
Refrigeration	Daryl Friesen	Midwest Engineering Ltd	989-3636	daryl@midwesteng.mb.ca
Chapter History	Robert Bisson	Public Schools Finance Board	945-8452	robert.bisson@gov.mb.ca
Accommodations				
Roster				
Special Events	Gary Bailley	Manitoba Hydro	360-5156	gbailley@hydro.mb.ca

ASHRAE Region XI Officers

Director & Regional Chair	Erich Binder	Erich Binder Consulting	Calgary	erich.binder@worleyparsons.com
Assistant Regional Chair	Kevin Marple	Benz Air Engineering	Portland	kmarple@benzco.com
Technology Transfer	Eileen Jensen	Bonneville Power	Portland	nejensen@bpa.gov
Membership	Murdoch MacPherson	MacPherson Engineering	Regina	m.macpherson@mac-eng.ca
Student Activities	Doug LeCren	Colt Engineering	Anchorage	douglas.lecren@nanworleyparsons.com
Young Engineers in ASHRAE	Tariq Amlani	Stantec	Vancouver	tariq.amlani@stantec.com
Resource Promotion	Ray Sieber	Saskatchewan Research Council	Regina	sieber@src.sk.ca
Nominating Committee	Norm Grusnick	ECCO Manufacturing	Langley	ngrsnick@ecomfg.com
	Kevin Marple	Benz Air Engineering	Portland	kmarple@benzco.com
Regional Historian	Bill Dean	National Research Council of Canada	Saskatoon	bill.dean@nrc-cnrc.gc.ca
Treasurer	Rob Craddock	Inland Metal Manufacturing	Regina	rob@inlandmetal.ca
Web Page Editor	Kathy Habke	SAC ASHRAE	Calgary	chapter.administrator@sac-ashrae.com
CRC Chair, 2011	Keith Yelton	Air Commodities Oregon	Portland	keithY@air-commodities.com

ASHRAE needs you, but more importantly you need ASHRAE. ASHRAE always has room for more professionals, just like you. For information regarding ASHRAE membership, contact Manitoba Membership Chair Steven Norsworthy Stephen.Norsworthy@snclavalin.com or visit ASHRAE Manitoba at www.ashraemanitoba.ca

ASHRAE, founded in 1894, is an international organization of 50,000 persons. Its sole objective is to advance through research, standards writing, publishing and continuing education the arts and sciences of heating, ventilation, air conditioning and refrigeration to serve the evolving needs of the public. Visit ASHRAE at www.ashrae.org.

Statements in this publication are not expressions of the Society or of the Chapter.
Articles may be reproduced without permission. Please credit the source.