



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 **Lunch** Meeting

Norwood Hotel, 112 Marion Street

Thursday November 10, 2011

Membership Promotion and a presentation on

The Case for Steam

11:30 am – Registration and Buffet Lunch Open

12:15 pm – The Case for Steam – A Truly Modern HVAC Solution

1:00 pm – Back to work

"The Case for Steam - A Truly Modern Solution for the HVAC Designer and Engineer" - Steam still has a place in modern facilities: it provides high turndown, industrial grade equipment with a genuine design life of more than five years and a clean pure heat source for heating, DHW, sterilization and humidification. This presentation will cover:

- optimization of the steam loop
- benefits and best practices of the boiler house and
- a case study comparing steam to hot water.

Our speaker **Marcus Bellot** is a Systems Manager at Steam Specialty Sales, based in Toronto. Marcus has over 20 years of experience designing steam systems for HVAC and Industrial clients across Europe and North America. He graduated from the University of Sheffield in England with a Construction Design B.Sc and has a post graduate M.Sc in Marketing and Business. Mr. Bellot and Steam specialties are actively involved in LEED projects and are active members of CHES, ASHRAE and IPE.

CONFIRM YOUR ATTENDANCE by the end of the business day, November 7, 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. Non member cost 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.

President's Message – Johann Baetsen, P. Eng.

Hello to all ASHRAE Manitoba members and soon to be members. November is a month of remembrance, a time where we need to show our appreciation to those who have protected our great country over the years. I would like to acknowledge the veterans who gave their lives and to those who continue to serve our great country.

We all can do our part to help our country and preserve the rights and freedoms that were defended by our veterans. Through vigilance and taking that extra time to ask the right questions, we can achieve a great deal. Have I looked at conservation? Have I considered the environment? Have I searched for a better solution? Have I consulted the ASHRAE website and journals for energy saving solutions? Asking these simple questions can trigger the mind and broaden our vision.



This month we will be hosting our first lunch meeting in many years. The purpose of this meeting is as a membership promotion event. The meeting will take place at the Norwood Hotel starting at 11:30am. We will be discussing an old technology that has been in use long before electricity, a technology that shaped the progression of mankind and sparked the industrial revolution. This technology is capable of moving people, heating entire districts and producing a major portion of today's electricity. Please join us at this event to discover how we can use this technology to make our own contributions to our great country.

Coming Events

December 15, 2011 - ASHRAE Manitoba Cribbage Tournament and Past Presidents Night – Our Special Events team is beginning planning for this event and will be contacting industry members for contributions for the prize table, beginning in mid November. It is always an enjoyable evening and a pleasant break from the annual Christmas rush.

2012 Supper Meetings–January 12, February 16, March 15 and April 12, 2012.

January 21 to 25 2012 – ASHRAE Winter Meeting and AHRI Trade Show in Chicago – for details, go to <http://www.ashrae.org/Events/page/Chicago2012>

March 12-13, 2012 - ASHRAE High Performance Buildings Conference: A Focus on Deep Energy Savings in Mission Valley, Calif. A technical applications track will focus on strategies, technologies, tools, measured performance and optimal operations. A policy track will focus on current and future legislation and related programs in the areas of standards, performance rating and labeling, disclosure laws, etc. The conference targets both existing and new construction non-residential buildings. For more information on this escape from the last vestiges of winter, visit www.ashrae.org/HPBconference.

April 19, 2012- ASHRAE WebCast - “Dedicated Outdoor Air Systems: A Path to Balancing Energy and IEQ” - PROGRAM OBJECTIVES are 1) Understand the role of DOAS in the overall HVAC system, 2) Describe characteristics of DOAS with a parallel system vs. conventional all-air systems 3) Understand the various DOAS equipment configurations & typical applications 4) Recognize issues and challenges unique to DOAS 5) Identify common design and operational pitfalls. Details on to register for this free program will follow in time.

April 24, 2012 – Better Buildings Conference - Manitoba's premier conference and trade show related to sustainable building design and environmental best practices. This year **Better Buildings** returns to a one day format. More details are forthcoming.

May 11 - 14, 2012 – Region XI CRC in Winnipeg – This is where incoming ASHRAE chapter officers learn the ropes for their new duties. Russell Lavitt and the organizing committee have already started planning the event, but it’s not too late for you to get involved, too.

November 11 to 14, 2012 – The 7th International Conference on Cold Climate HVAC in Calgary – will provide strategies by which scientists, designers, engineers, manufacturers and other decision makers in cold climate regions can achieve good indoor environmental quality (IEQ), with a minimum use of resources and energy. The planning committee seeks papers featuring innovations in cold climate HVAC design. **Abstracts are due by Dec. 1, 2011.** For specific topics, to submit a conference paper abstract or for more information, go to www.ashrae.org/ColdClimate. For additional information, contact meetings@ashrae.org.

Advanced Energy Design Guide for K-12 School Building

Inefficient lighting, uncontrolled plug loads and poorly insulated roofs are a few of the factors that can contribute to a failing grade in energy consumption for K-12 school buildings. The **Advanced Energy Design Guide for K-12 School Buildings: Achieving 50% Energy Savings Toward a Net Zero Energy Building** provide guidance to help design teams constructing K-12 school buildings cut annual energy use by 50 percent or more using off-the-shelf technology. Written in partnership with ASHRAE, the American Institute of Architects, the Illuminating Engineering Society of North America, the U.S. Green Building Council and the U.S. Department of Energy, the guides are available for free in electronic form at www.ashrae.org/freeaedg.

Advanced Energy Design Guides, or AEDGs, allow owners, contractors, consulting engineers, architects and designers to easily achieve advanced levels of energy savings without detailed energy modeling or analyses. The new guide features easy-to-follow recommendations for various climate zones and how to implement tips via a series of real-life school construction case studies. Also included is information on integrated design, including best practices, as a necessary component in achieving 50% energy, and the inclusion of a performance path; specifically, offering guidance for early stage energy modeling and annual energy use targets to help with goal setting

Topics addressed include:

- High performance building envelopes
- Different ways to daylight
- Methods to achieve space-by-space interior lighting power densities that are, on average, 40 percent better than Standard 90.1-2004
- Ways to reduced exterior lighting energy consumption

- Recommendations for computers, vending machines, kitchen cooking equipment, walk-in refrigeration equipment, kitchen exhaust hoods and service water heating
- HVAC system types that achieve significant energy savings over typical systems
- Recommendations for commissioning and measurement and verification to ensure that energy savings potentials are realized.

Owners should not expect energy-efficient schools to cost more; they can cost more, but they shouldn't have to. The tips, guidelines and tables included in the newest AEDG for K-12 schools can set building owners on their way to more energy efficient, productive schools in a cost efficient manner.

ASHRAE, AIA, IES, DOE and USGBC are currently developing the third guide in the 50 percent series, which will focus on medium/big box retail. Publication is targeted for winter of 2012, followed by large hospitals in the spring of that year.

Membership Promotion

Welcome back Members for another great year of meetings and events culminating with the Chapter Regional Conference (CRC) this May here in Winnipeg! Your Manitoba membership is in addition to your society membership and enables our chapter to be active in our community, host monthly dinner meetings and special events with technical speakers and participate in ASHRAE society at a local level.

There are several Manitoba Chapter membership options available.

- Full Membership is \$280 and includes admission to all the dinner (and lunch) meetings.
- Basic Membership is \$40 with a dinner fee of \$40 for each dinner attended. Retired Society Membership is \$25 with the same dinner fees applying.
- Student Membership is \$25 with a dinner fee of \$15 and includes a Free Dinner on Student Night.
- Corporate Subscription is \$300 and includes 7 dinners that are transferable to all employees within the company for the current season.

Questions? Please contact Stephen Norsworthy (stephen.norsworthy@snclavalin.com).

Why Belong to an ASHRAE Chapter?

ASHRAE is a grassroots organization. Nourishment comes from local chapters and volunteer effort. Each of the Society's more than 170 chapters usually meets for a monthly dinner and technical session featuring a noted speaker. This activity brings the latest in technical information to the local level. Chapters also sponsor seminars and lecture series to provide members with more detailed technical information. Some chapters even conduct courses that are not available at local universities for their members and other interested professionals.

Public information programs are another important chapter activity. For example, it is not uncommon for ASHRAE members to hold seminars on energy conservation in the home, or to provide engineering career guidance to young people. In addition, many chapters sponsor scholarships to students attending college and help organize and support ASHRAE student branches.

Chapters are divided into geographic regions to effectively organize chapter efforts; provide volunteer training; and open a communications channel to the Society's Board of Directors. Each

region holds an annual conference that includes a technical program and business session. Nominations for service on many Society-level committees are made at these meetings.

Who Should Join?

A wide range of HVAC&R professionals will find a host of benefits in ASHRAE membership:

Consulting Engineers	Technicians
Design Engineers	Industrial / Manufacturing Engineers / Management
Architects	Public Utility Engineers
Contractors	Code Officials and other Government representatives
Students	Professors / Instructors / Researchers
Facility Engineers / Managers	Sales Engineers / Manufacturer's Reps
Project / Application Engineers	Distributors / Wholesalers

Why Should My Company Support My Participation in ASHRAE?

Membership in ASHRAE gives you so much more than a card for your wallet and a certificate for your wall. Here's how employers benefit from having ASHRAE member on their staff:

- ASHRAE Members have access to members-only areas of ashrae.org where the latest technical information is available, updated regularly and relevant to what is going on in the industry. The body of knowledge on the website and in member communications makes you an information expert for your company.
- Volunteer opportunities at local chapters and on committees at the society level put ASHRAE members at the table where many important decisions are made. Bringing your knowledge to ASHRAE benefits the industry, the Society and you! Be a leader!
- Professional development through ASHRAE courses and certification improves your skill set and helps you remain a viable and important asset to your employer. Be the go-to person and subject specialist on your team.
- Networking keeps your company name in front of leaders in the industry and members of the society. Attend your chapter meeting or the annual and winter conferences and make contacts and share information - key to growth for you and your company.

Let your management know that participation in ASHRAE is an investment for tomorrow and beyond. Join today and be in good company.

Remember the Veteran

The **Veteran**, not the preacher, has given us freedom of religion.

The **Veteran**, not the reporter, has given us freedom of the press.

The **Veteran**, not the poet, has given us freedom of speech.

The **Veteran**, not the campus organizer, has given us freedom to assemble.

The **Veteran**, not the lawyer, has given us the right to a fair trial.

The **Veteran**, not the politician, has given us the right to vote.

Tomorrow and every day, grant them rest, respect and remembrance.

War does not determine who is right -- only who is left.

Call for Volunteers

1 – This newsletter, Buffalo Tales, has had the same editor for most of the past twenty years. He is seeking ideas on how to refresh the format and content and someone to assist pulling together issues when his schedule gets jammed up. Also, the Chapter needs a backup plan in case he decides to take an extended holiday or gets run over by a truck. Contact phillips@unies.mb.ca

2 - The **ASHRAE Manitoba Board of Governors** can always use more hands and minds. Persons serving on ASHRAE boards and committees gain leadership and organizational experience that benefits career development. EITs can use time spent on ASHRAE committees to meet APEGM voluntary service requirements. Contact Chapter President Johann Baetsen at epp.siepman@engineering.com, 453-1080, jbaetsen@eppsiepman.com and tell him you are interested.

3 - In May of 2012, the **Manitoba Chapter will host the annual ASHRAE Region XI Chapters Regional Conference**. About 100 visitors representing twelve ASHRAE chapters will meet at the Hotel Fort Garry for three days of activities including business meetings, technical sessions, and social activities. The event has many facets, including social event planning, a golf tournament (or alternate event depending on weather...), technical sessions, coordination, and logistical issues for which we seek assistance. Contact 2012 Region XI CRC Chair **Russell Lavitt** at SMS Engineering Ltd., 789-2312 rlavitt@smseng.com to volunteer.

Some of ASHRAE Manitoba's 2011 – 2012 Board members and volunteers



ASHRAE Manitoba Chapter Officers

President	Johann Baetsen	Epp Siepman Engineering	453 1080	jbaetsen@eppsiepman.com
President Elect	Corey Nation	EH Price	982 2222	coreyn@price-hvac.com
Vice President	Stephen Norsworthy	SNC-Lavalin Inc.	786 8080	stephen.norsworthy@snclavalin.com
Secretary	Mark Windeatt	Engineered Air	632 8535	mark.windeatt@engineeredair.com
Treasurer	Doug Castor	EH Price	982 2220	DougC@price-hvac.com
Board of Governors	Sergio Almeida	Geo-Xergy Systems Inc.	255 5959	sergio@geoxergy.com
	Robert Bisson	Public Schools Finance Board	945 8452	robert.bisson@gov.mb.ca
	Peter Gryc	SMS Engineering Ltd	789 2346	pgryc@smseng.com
	Daryl Friesen	Midwest Engineering Ltd	989 3636	daryl@midwesteng.mb.ca
Technology Transfer	David Surminski	Price Industries	661 7866	DavidS@price-hvac.com
Membership	Stephen Norsworthy	SNC-Lavalin Inc.	786 8080	stephen.norsworthy@snclavalin.com
Research Promotion	Jesse Sandhu	Tetra Tech	954 6902	Jesse.Sandhu@tetrattech.com
Student Activities	Scott Hammond	SMS Engineering Ltd	789 2323	shammond@smseng.com
Honors and Awards	Vacant			
Newsletter Editor	Bert Phillips	UNIES Ltd	633 6363	phillips@unies.mb.ca
Homepage Editor	Vacant			
2012 CRC Chair	Russell Lavitt	SMS Engineering Ltd	789 2312	rlavitt@smseng.com
Programs	David Surminski	Price Industries	661 7866	DavidS@price-hvac.com
Refrigeration Chair	Brian Blahey	Lowe Mechanical Services	233 3292	bblahey@lowecanada.com
Accommodations	Stephen Norsworthy	SNC-Lavalin Inc.	786 8080	stephen.norsworthy@snclavalin.com
Chapter History	Robert Bisson	Public Schools Finance Board	945 8452	robert.bisson@gov.mb.ca
YEA	Scott Hammond	SMS Engineering Ltd	789 2323	shammond@smseng.com
Special Events	Corey Nation	EH Price	982 2222	coreyn@price-hvac.com

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		tariq.amlani@stantec.com
Resource Promotion	Ray Sieber	Sask. Research Council	Regina	sieber@src.sk.ca
Nominating Committee	Norm Grusnick	ECCO Manufacturing	Langley	ngrsnick@ecomfg.com
Regional Historian	Kevin Marple	Benz Air Engineering	Portland	kmarple@benzco.com
	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
2012 CRC Chair	Russell Lavitt	SMS Engineering Ltd	789.2312	rlavitt@smseng.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 Stephen 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.

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