



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.

October 16, 2008
ASHRAE MB Membership Night
Victoria Inn
1808 Wellington Avenue

Controlling Contaminant Movement
Using Pressure Differentials

5:00 pm – Social Hour

6:00 pm – Dinner

7:00 pm – Presentation

Overview: ASHRAE members routinely use ventilation for contaminant control in buildings. As a rule, more ventilation means better air quality. However, there are circumstances where brute force ventilation is not as effective as a bit air supplied with finesse. Bert Phillips will present a few examples where finesse and pressure differentials provided simple ways of controlling contaminant movement between spaces. The concepts presented are simple and effective although not widely understood.

Bert Phillips, P.Eng, MBA, UNIES Ltd. is a consulting engineer whose practice includes less conventional pursuits such as the interaction between mechanical system operation and building envelopes. He has served on several ASHRAE technical and standards committees and various offices in the Manitoba Chapter including President in 1994/95 and newsletter editor for about 15 years. He is currently serving his third year as ASHRAE Region XI Vice-Chair for Chapter Technology Transfer.

ASHRAE Manitoba Membership - Jesse Sandhu, Membership Chair

ASHRAE Manitoba is pleased to announce the following new Chapter Members who joined in September 2008:

Jessica Yablecki with Dillon Consulting Limited

Roland (Lance) Marohn with PCL Constructors Canada Ltd.

Dr. Robert W. Derksen with University of Manitoba's Dept. of Mechanical and Manufacturing Engineering

Clarence (Clare) Takeuchi with J-Tak Sales Co

Greg Dale with Quadra Sales

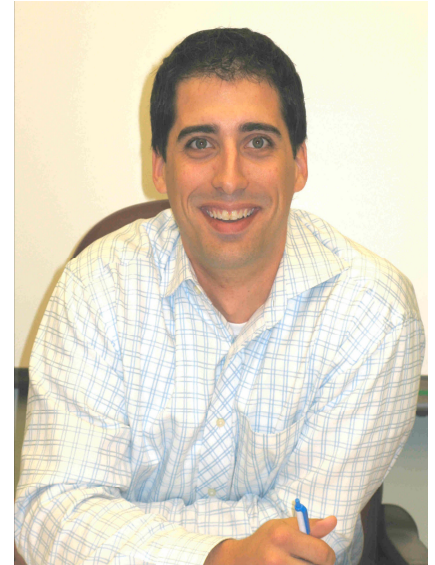
Marc Morin with Refrigerative Supply

On behalf of the Board of Governors, we welcome you and look forward to seeing you at the dinner meetings this year. For any of who missed or misplaced the membership application which was sent out last month, it should have been included again with the Buffalo Tales Newsletter email you received.

President's Message – Sergio Almeida, P. Eng.

Another September has come with a summer past, which means another ASHRAE season has now begun. I've been handed the reigns of your chapter for this year, and I'm looking forward to helping your dedicated board members grow our chapter and move forward.

Your board has come up with some fresh ideas to improve your chapter, while maintaining its strengths. Our core chapter membership is as good as any chapter in our region, but we have many industry professionals in Manitoba who are ASHRAE Society members but never attend chapter meetings. I challenge each of you to personally invite one or two individuals with whom you work, to a dinner meeting as your guest. I'm sure that they'll find the experience as enjoyable as we all do, and be back for more.



ASHRAE Manitoba is also committed to growing with the industry, offering presentations and seminars that are relevant in today's industry. We've taken strides to develop and strengthen relationships with other industry groups such as BEMM, BOMA, and CaGBC, to share our resources and better serve the industry as a whole. Anyone with contacts or ideas that can help us build these relationships is encouraged to step forward and help us do so.

Of course, all of this would not be possible without the hard work of your board members. Our slate of officers this year has shuffled a bit, but a lot of the faces remain the same. We do however need people to help with various jobs and tasks as we go through the year. The work of a board member can be intimidating, but there are many ways an individual can help without offering huge chunks of time. At our next meeting please take a moment to talk to any of our board members to find out how you can participate in our chapter and be part of the team.

Cheers,
Sergio

ASHRAE Advanced Energy Design Guides are Free Online

The free downloads of the Advanced Energy Design Guides went live on January 17, 2008. By early August, more than 100,000 AEDGs had been downloaded and more than 5,000 hard copies had been sold. In addition, approximately 13,000 print copies of the K to 12 AEDG were distributed in print to school superintendents earlier this year.

If you have clients or colleagues that would benefit from having a copy of one of the AEDGs, tell them to download it or download it yourself and email a copy to them.

Coming Events

ASHRAE Manitoba Meeting Schedule

October 16, 2008

November 13, 2008

December 11, 2008

January 15, 2009

February 12, 2009

March 12, 2009

April 16, 2009

January 24 to 28 ASHRAE Winter Meeting and ARI Trade Show – Chicago. ASHRAE's Winter meetings and the ARI Trade Shows are always worth and HVAC professional's time to attend, and Chicago is a city with so much more to do. But if you are a true HVAC professional, what else would you want to do?

April , 2009 BEMM Conference -

May 6-9, 2009 – CRC (ASHRAE Chapters Regional Conference) in Spokane, Washington. Events schedule, registration and accommodation details will be presented as they become available.

Notes from the 2008 ASHRAE Winter Meeting in New York City - Bert Phillips

Seminar 38 How to Write CYA (cover your assets) Letters

#1 Chiumento on the designer's perspective – communication has moved from improving the project to preserving evidence. Be comprehensive in records made and preserved. Document your conversations, emails, etc. Be very careful with emails. Edit thoroughly. Consider message and tone.

RFIs and Submittals – make contractors pose RFIs as questions. Do not address how to build. Stick with what to build. If you have a concern about what is being asked, write back asking for clarification.

Make it clear, in writing, that late submittals will delay the project.

Do not respond to an RFI or submittal until you are very clear about what is being asked or proposed.

#2 Cohen on the contractor's perspective – recommends that contractors document and file claims for changes, delays, sub problems, etc. as early as possible. CYA letters are required because not all situations get resolved through verbal communication. After meetings, write letters stating your understanding of the resolution of verbal agreements regarding the issues discussed.

Make sure meeting minutes reference/address issues discussed in an accurate manner. Review minutes for omissions, errors or conflicts and respond with your issues in writing.

Keep letters professional. Stick to the issues. If things are heated or sticky, set the letter aside for a while after writing it, then re-read it, tone it down so it is professional and concise.

“What has not been written, has not been said”

Email is acceptable in court (usually, but some contracts specify “no email”). Ask for delivery receipts or read receipts for documentation.

#3 Pallas – Product liability occurs when a product injures someone. Product performance /representation liability occurs when a product does not perform as specified.

In Semianr 42 on **Indoor Air Chemistry and IAQ**, Apte noted that polyester/synthetic filters (as opposed to fiberglass filters) appear to increase the risk of BRS (building related sickness), especially if there is a high concentration of ozone.

ASHRAE Manitoba Website – Devin Evenson

Do you ever find yourself searching for an archived Buffalo Tales or interested in learning more about the history of the chapter? If so, the Manitoba Chapter website is a great place to fulfill any such need. General chapter information such as chapter contacts and activities along with Region XI and Society related information can be found. There is a growing list of links to take you onto ASHRAE related sites and topics. So the next time you're surfing the pipeline of information stop by and visit us at www.ashraemanitoba.ca.

Help Wanted

Your ASHRAE Board is always looking for new ideas to keep the Chapter relevant and more bodies to lighten the load of those that are currently managing Chapter affairs. This is a great opportunity for EITs to get some (or all) of the volunteer service they need for registrations with APEGM and volunteer service to a professional association looks great on any resume. On top of that, if you get active with ASHRAE Manitoba, you get to hang (and work) with a great group of individuals of HVAC professionals. If you have ideas and/or time to contribute, tell a Chapter officer.

ASHRAE Manitoba Chapter Officers

| | | | | |
|-------------------------|-------------------|-----------------------------|----------|--|
| President | Sergio Almeida | The Trane Company | 632-1543 | salmeida@trane.com |
| President-Elect | Daryl Friesen | Midwest Engineering | 989-3636 | daryl@midwesteng.com |
| Vice-President | Jesse Sandhu | SMS Engineering | 775-0291 | jsandhu@smseng.com |
| Secretary | Stirling Walkes | SMS Engineering | 775-0291 | swalkes@smseng.com |
| Treasurer | Corey Nation | E.H. Price Ltd. | 982-2222 | coreyn@price-hvac.com |
| Governor | Dieter Bartel | Manitoba Hydro | 477-7717 | dbartel@hydro.mb.ca |
| Governor | Robert Bisson | Public School Finance Board | 945-8452 | rbisson@gov.mb.ca |
| Governor | George Marchildon | PSFB | 945-0207 | gmarchildo@gov.mb.ca |
| Committee Chairs | | | | |
| Chapter History | Robert McDowall | | 284-6678 | robertmcdowall@mts.net |
| CTT | Russell Lavitt | SMS Engineering | 775-0291 | rlavitt@smseng.com |
| Honours & Awards | Dieter Bartel | Manitoba Hydro | 477-7717 | dbartel@hydro.mb.ca |
| Membership | Jesse Sandhu | SMS Engineering | 775-0291 | jsandhu@smseng.com |
| Programs | Johann Baetsen | E.H. Price Ltd. | 661-7829 | johannb@price-hvac.com |
| Refrigeration | | | | |
| Research & Promo | David Stones | Wardrop Engineering | 272-1331 | dstones@shaw.ca |
| Student Activities | Peter Gryc | SMS Engineering | 775-0291 | pgryc@smseng.com |
| Other | | | | |
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| Homepage Editor | Devin Evenson | Manitoba Hydro | 474-3971 | devenson@hydro.mb.ca |
| Newsletter Editor | Bert Phillips | UNIES Ltd. | 633-6363 | phillips@unies.mb.ca |
| Roster | David Stones | Wardrop Engineering | 272-1331 | dstones@shaw.ca |
| Special Events | Tom Beggs | Tom Beggs Agencies | 953-1900 | tombeggs@mts.net |

ASHRAE Region XI Officers

| | | | | |
|---------------------------|----------------|------------------------------------|--|--|
| Director & Regional Chair | Traci Hanegan | Coffman Engineers, Spokane | | hanegan@coffman.com |
| Assistant Regional Chair | Erich Binder | Colt Engineering, Calgary | | Binder.Erich@colteng.com |
| Technology Transfer | Bert Phillips | UNIES Ltd. | | phillips@unies.mb.ca |
| Membership Promotion | Russell Lavitt | SMS Engineering | | rlavitt@smseng.com |
| Student Activities | Doug LeCren | Colt Engineering, Anchorage | | dlecren@nana-colt.com |
| Resource Promotion | Norm Grusnick | ECCO, Vancouver | | normang@shaw.ca |
| Nominating Committee | Dale Carter | Dec Design, New Westminster | | Dale@decdesign.ca |
| Nominating Committee | Doug Dunford | Portland | | Dwdunford@aol.com |
| Regional Historian | Ivan Hall | ESC Automation, Edmonton | | ihall@escautomation.com |
| Treasurer | Rob Craddock | Inland Metal Manufacturing, Regina | | rob@inlandmetal.ca |
| Web Page Editor | Joseph Korus | Coffman Engineers | | korus@coffman.com |
| CRC Chair, 2009 | David Reames | | | daver@lseng.com |

ASHRAE, founded in 1894, is an international organization of 55,000 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.

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Visit ASHRAE Manitoba at www.ashraemanitoba.ca.

Visit ASHRAE at www.ashrae.org.



"Fundamentals of Refrigeration - IP" online course is now available through ASHRAE eLearning.

[Fundamentals of Refrigeration-IP](#) is a comprehensive introduction online course available as one full course or 6 short courses covering:

- Heat Transfer
 - Thermodynamic States
 - Psychrometrics
 - Multi-stage and cascade refrigeration cycles
 - Refrigeration systems
 - Refrigerants
-
- [Fundamentals of Refrigeration - IP](#) includes an online course reader, Online assessment and a Completion certificate for 9 PDHs or 0.9 CEUs. This course is ideal for:
 - Recent engineering graduates working in the HVAC&R Industry
 - Experienced engineers who need an introduction to refrigeration
 - Architects, technicians, construction, or building management professionals who need to improve their knowledge of refrigeration systems

ASHRAE eLearning courses allow you to earn PDH and CEU credits to help you maintain your license. But ASHRAE eLearning does not just offer quick credits; ASHRAE eLearning offers quality training that truly develops your skills - or those of your employees or clients. Start building your success and your company's success today with ASHRAE eLearning.

For more information and the full catalog of online courses, visit www.ASHRAE-eLearning.org



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Complying with Requirements of ASHRAE Standard 62.1-2007

Due to the popularity of this course, it will be offered twice.

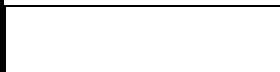
Wednesday, October 8, 2008
1:00 p.m. to 4:00 p.m. EDT

Monday, November 3, 2008
1:00 p.m. to 4:00 p.m. EDT



Hoy Bohanon, Instructor

ASHRAE Standard 62.1-2004, *Ventilation for Acceptable Indoor Air Quality*, contained many changes from its previous versions. The newest version of the standard was published in June 2007. This course provides an overview of the requirements of the new standard with emphasis on changes from the previous version. Practice in using of an available spreadsheet will be included as a closing exercise. Attendees will receive a discount toward *Standard 62.1-2007, Ventilation for Acceptable Indoor Air Quality* and *Standard 62.1-2007 User's Manual* .



Mechanical Insulation

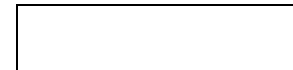
Wednesday, October 15, 2008

1:00 p.m. to 4:00 p.m. EDT



Mike King, Instructor

This course addresses the critical role an insulation system plays in equipment and system performance, as well as its role in energy conservation, fuel cost savings and environmental emission reductions. Attendees learn system design conditions, gain a better understanding of the different types of insulation materials, their temperature ranges and their properties, and are able to select appropriate insulation materials (including attachment materials, insulation materials, jackets and coverings, systems, finishing materials and accessories). Attendees gain a better understanding of the criteria needed for selecting the "right insulation system for the job," increase their skill in communicating the requirements in a specification, and gain experience at determining the right insulation thickness for long-term performance .



Energy Management in New and Existing Buildings

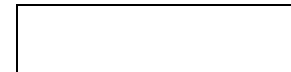
Wednesday, October 22, 2008

1:00 p.m. to 4:00 p.m. EDT



Richard Pearson, Instructor

Buildings use 40% of US Energy, of which ONE THIRD IS EASILY SAVED. ASHRAE President Harrison says "...great designs fade from green to gray (when not properly managed).." This course addresses both issues by weaving together Energy Management principles of ASHRAE Standard 100, Handbook Chapter 35 (2007), Energy Star Guidelines, and practical experience of successful energy managers. Illustrations of success are provided, to take advantage of the Energy Star "Portfolio Manager" for documented performance tracking and national recognition as an "Energy Star".



**Healthcare Facilities:
Best Practice HVAC Design Considerations and Criteria**

Monday, October 27, 2008
1:00 p.m. to 4:00 p.m. EDT



Robert Cox, Michael Sheerin, Instructors

Based on ASHRAE's HVAC Design Manual for Hospitals and Clinics, this course introduces many unique and up-to-date design considerations. The course covers chapters 1, 2, 3, 4, 6, 11 and 13 of the design manual. Common medical terminology is introduced, and it will be explained how some terms have very different meanings between the medical and engineering communities. Infection particles and their transport mechanisms are covered, followed by infection control methods. A major emphasis is on the necessary considerations for various diagnostic, treatment and support areas. Lastly, how to deal with existing facilities, smoke and life safety design issues complete the course. Attend the ASHRAE online course, "Healthcare Facilities - Best Practice Applications of HVAC Systems" for additional information that is also covered in this best-selling ASHRAE publication. Attendees receive a discount on the purchase of HVAC Design Manual for Hospitals and Clinics.



[Healthcare Facilities:
Best Practice Applications of HVAC Systems](#)

Wednesday, October 29, 2008
1:00 p.m. to 4:00 p.m. EDT



Robert Cox , Michael Sheerin, Instructors

Based on ASHRAE’s publication *HVAC Design Manual for Hospitals and Clinics*, this course introduces best practice in healthcare applications. The course covers topics found in Chapters 1, 7, 8, 9, 10, 14, 15, and 16. Air distribution designs for surgical and patient rooms are a major focus. Various control and energy efficiency techniques for cooling and heating plants are presented along with O&M and other commissioning topics. Smoke control and life safety best practices and application issues finish the course. Attend the online course, *Healthcare Facilities - Best Practice HVAC Design Considerations and Criteria*, for additional information that is also covered in this ASHRAE publication. Attendees receive a discount on the purchase of the HVAC Design Manual for Hospitals and Clinics .

