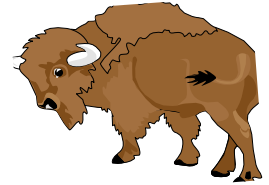




## BUFFALO TALES

### 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.*



### Shaping Tomorrow's Built Environment Today

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## ASHRAE Supper Meeting Victoria Inn, 1808 Wellington Avenue Thursday March 14, 2013 A New Way to Treat Building Air

**5:00 PM – Registration, Meet and Greet**

**6:00 PM – Supper**

**7:00 PM - Ab Freig - A New Way to Treat Building Air**

The new way to treat air within a building is actually an old way - like nature cleans outdoor air. Utilizing the oxidation and ionizing properties of light as naturally occurring sunlight, combined with photocatalytic reactions of specific rare and noble metals, we are able to purify air. This works by converting water vapour and oxygen in untreated air into hydro-peroxide and hydroxyls, eliminating various microbes (odours, mould, bacteria, viruses, VOC's, etc.) creating a healthier indoor environment. The discussion will go further in depth on how this process works and how to apply it to get better indoor environments.

**Ab Freig**, M.Sc. was President and Chief Executive Officer of the Puratone Corporation and is currently President of ActivTek Environmental Canada. [www.activtekcanada.net](http://www.activtekcanada.net). Mr. Freig obtained a Master of Science degree from the University of Manitoba in 1985 and Bachelor of Science degree from the University of Alexandria in 1977. He has more than thirty years of business experience, a significant portion of that in senior management positions. Mr. Freig started ActivTek Environmental Canada last year. ActivTek is a US based company with headquarter in Dallas, Texas and manufacturing facilities in Bristol, Virginia.

Mr. Freig is involved in several not for profit organizations. He is a board member of the Art Mauro Centre of Peace, Justice and Conflict Resolution at the University of Manitoba and he serves on the board of IRCOM and OFE and on the advisory board of several companies. He is the current Chairman of the Board of the World President Organization, Manitoba Chapter.

Mr. Freig is married to Susan and has two children, Layla a twenty year-old daughter and Zach an eighteen year-old son. He enjoys traveling, reading, squash, jogging and cycling.

**CONFIRM YOUR ATTENDANCE** by the end of the business day March 12, 2013 by emailing Sam Frenette at [ashrae.mb@gmail.com](mailto:ashrae.mb@gmail.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 [ashrae.mb@gmail.com](mailto:ashrae.mb@gmail.com) or visit [www.ashraemanitoba.ca](http://www.ashraemanitoba.ca).

## President's Message - Corey Nation, P. Eng

Hey Gang! How is everyone enjoying the programs this year? I think we have had a great mix of interesting topics and top notch speakers. I enjoyed the refrigeration night, not because we were talking hockey rinks, just an interesting discussion. Especially with the city owned rinks as a hot topic in the papers. It's great to see all the ways one can provide heat recovery. It's nice outside the box thinking.

Although we are already in March we still have two more dinner meetings, our second annual student mixer, the Better Buildings Conference and our wind-up. The dinner meetings are keeping the variety up to finish off the year.

The student mixer is a great time for students and new comers to learn more about ASHRAE and see if it's the right fit for them. We would like some of our seasoned vets to come out, too. This also could be an opportunity to meet new potential employees/employers, depending on which side of the fence you might be on. The wind-up is always a good time too. It's a nice relaxing way to spend some time with other members and potentially their significant others and get to know them outside of the usual dinner formats. You will get email notice for these events, once details are finalized.

Better Buildings, the only conference of its kind in Manitoba has a new format this year. ASHRAE joins the local Green Building Council and Building Energy Management of Manitoba (BEMM) to offer this conference to members and the broader public. Speakers include James Newman, an ASHRAE Distinguished Lecturer, which means he is a great speaker. James will discuss turning older buildings into high performance buildings - a timely topic for Winnipeg, a city with beautiful existing buildings that need a little TLC. With the conference are some workshops for all to attend. Mr. Newman will also be speaking in the workshop. More details to follow on that.

That is a peak at what's to come and to peak your interest. If you want more information, let me know. As details get finalized, we will get them to you.

Have a great March!

Your President,  
Corey Nation, P. Eng.

## Coming Events

**March 13, 2013 3:00 PM - Make it Tight, Vent it Right - Russell Lavitt**, a senior mechanical engineer with SMS Engineering Ltd. and an ASHRAE Manitoba Past President will discuss the relationship between building envelopes and HVAC systems. The building envelope creates many challenges for HVAC designers as different buildings require different treatments. As building owners demand tighter building envelopes, proper selection and sizing of the mechanical system is critical to the success of the building's efficient operation and more importantly, the health, comfort and safety of occupants.

This Manitoba Building Envelope Council presentation will take place in the CGA Manitoba Room (P107) at the Red River College Princess Street Campus. For more info and to register online, go to [www.mb-bec.ca](http://www.mb-bec.ca). Free for MBEC members, \$10 for non members, \$5 for students.

**April 11, 2013 - Noise Control - ASHRAE Supper Meeting**



**April 18, 2013, noon to 3:00 pm - Assessing Building Energy Performance: From Principles to Practice** - a **FREE** webcast from ASHRAE. The webcast will focus on the importance of building energy performance and its far reaching implications in both new and existing buildings. It will help participants to recognize the opportunities that Assessing Building Energy Performance (ABEP) presents. From recognizing the different approaches, team skills, and knowledge needed to properly assess building energy performance, to the application of ASHRAE building audit levels, this webcast will provide viewers with an understanding of ABEP principles and practical application knowledge. While the webcast is **free for all**, you must register to watch. For more details, to register or to see pictures of Bert Phillips wearing a tie, go to <https://www.ashrae.org/membership--conferences/webcasts>

**April 23 and 24, 2013 - Better Buildings Workshop and Conference** - the conference on April 24 will be preceded by a workshop on April 23 at the Viscount Gort. The workshop will feature ASHRAE Distinguished Speaker James Newman presenting on “Transforming Old buildings to High Performance buildings. Alex Fleming will presenting on “Changing Communities” promoting putting down roots in such places as Wood Buffalo/ Fort McMurray. You can find more details and register at [www.betterbuildingsconference.com](http://www.betterbuildingsconference.com). If you are interested in sponsoring or volunteering, email [info@betterbuildingsconference.com](mailto:info@betterbuildingsconference.com)

### **Grassroots Government Activities Committee (GGAC) – Dieter Bartel**

Grassroots Government Activities Committee (GGAC) is a new ASHRAE committee responsible for grassroots activities and issues that relate to local government entities, but GGAC's role is not new. It fell under CTTC and before that, TEGA, but other priorities and a lack of admin support meant not much grassroots GA has been done in recent years. The establishment of GGAC and hiring of a State and Local Government Affairs Manager will give GA the priority, focus, volunteer infrastructure, and staff support it needs for success.

Many ASHRAE-relevant policy issues are decided at the state and local level. ASHRAE Chapter members are most knowledgeable about their community's needs on these issues, so represent a valuable resource for local decision makers. The dream behind GGAC is to better coordinate grassroots involvement at the local level (state/province, county, state, school board, university board of regents, chapters of other building industry organizations, code boards, etc.) in an effort to effectively guide local governments to appropriate policies and actions on matters of interest to ASHRAE members. Recognizing that "MADE IN THE USA" policies will not work in all states in the union or corners of the globe, GGAC will encourage members to volunteer for code review boards, historical building preservation boards, municipal planning committees, and such to seek the best solution for their community. Think less "advocacy" and more providing local policy makers and those in the field enforcing codes with information that influences their decisions, changing how things are done for the overall betterment of the community.

GGAC will provide guidance and training to Chapter members and assist them in identifying and selecting priorities. State and Local Government Affairs Manager Mark Wills can support these efforts by providing issue specific training and advice and resource materials. Acting as a centralized clearing house of who is doing what and where, he can share lessons learned and minimize the frequency of Chapters re-inventing the wheel. If ASHRAE can get new members plugged in and really making a visible difference in their local communities, we can keep them as members. Properly done, GGAC will benefit your Chapter members, your community and Society.

## ASHRAE Manitoba Chapter Officers

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## ASHRAE Region XI Officers

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**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 Sam Frenette [samuelf@price-hvac.com](mailto:samuelf@price-hvac.com) or visit ASHRAE Manitoba at [www.ashraemanitoba.ca](http://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](http://www.ashrae.org).

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# ASHRAE Learning Institute

## 2013 Spring Online Course Series

### 2 WAYS TO REGISTER

**Internet:** [www.ashrae.org/onlinecourses](http://www.ashrae.org/onlinecourses)

**Phone:** Call toll-free at 1-800-527-4723 (US and Canada) or 404-636-8400 (worldwide)

**Note:** You may register up to 24 hours prior to an online course. Courses are in US Eastern Standard Time.

#### **Basics of High-Performance Building Design**

Mon, March 18, 2013 – 1:00 pm to 4:00 pm ET

#### **Air-to-Air Energy Recovery Fundamentals**

Wed, March 20, 2013 – 1:00 pm to 4:00 pm ET

#### **Advanced High-Performance Buildings Design**

Mon, March 25, 2013 – 1:00 pm to 4:00 pm ET

#### **Air-to-Air Energy Recovery Applications: Best Practices**

Wed, March 27, 2013 – 1:00 pm to 4:00 pm ET

#### **Complying with Standard 90.1-2010: Envelope/Lighting**

Wed, April 17, 2013 – 1:00 pm to 4:00 pm ET

#### **Humidity Control Troubleshooting**

Mon, April 22, 2013 – 1:00 pm to 4:00 pm ET



#### **Combined Heat & Power: Creating Efficiency Through Design & Operations**

Wed, April 24, 2013 – 1:00 pm to 4:00 pm ET

#### **Complying with Standard 90.1-2010: HVAC/Mechanical**

Mon, April 29, 2012 – 1:00 pm to 4:00 pm ET

#### **The Commissioning Process & Guideline 0**

Wed, May 1, 2013 – 1:00 pm to 4:00 pm ET

#### **Fundamental Requirements of Standard 62.1-2010**

Wed, April 17, 2013 – 1:00 pm to 4:00 pm ET

\* Take 3 or more courses and save 20% off registration!

## **HVAC Design Training**

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**March 18-22, 2013 • June 3-7, 2013 • August 12-16, 2013**

### **HVAC Design: Level I - Essentials**

This training provides intensive, practical education for designers and others involved in delivery of HVAC services. Gain practical skills and knowledge in designing, installing and maintaining HVAC systems that can be put to immediate use. The training provides real-world examples of HVAC systems, including calculations of heating and cooling loads, ventilation and diffuser selection using the newly renovated ASHRAE Headquarters building as a living lab.

### **HVAC Design: Level II - Applications**

Developed by industry-leading professionals, the training course provides participants with advanced level information about designing, installing and maintaining HVAC systems that can be put to immediate use. Participants will gain an in-depth look into Standards 55, 62.1, 90.1, and 189.1 and the Advanced Energy Design Guides, as well as a range of other HVAC topics including: HVAC equipment and systems; energy modeling; designing mechanical spaces; designing a chiller plant; and BAS controls.

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