



February 2017

Pile of B♥nes

Published by the Regina Chapter of ASHRAE

President's Message

By Jared Larson

After surviving several days in Vegas I managed to escape unscathed (...although I found my money was in Vegas...and stayed in Vegas). I can report on some other great stories about the conference. There were close to 20 people down from Regina (not including spouses). Among these people were Natasha Skea who won the regional LeaDRS competition to attend the conference and shadow Keith Yelton, our regional DRC. Each year there is only one chosen from our region. This is funded by our regional dues. She has provided a great write up. I encourage more Y.E.A. (<35 years old) members to apply for this next year.

The University of Regina team was presented their first place award for the applied design challenge. Brent Yeske and Brad Lulik both attended the conference to receive their award in the plenary session from society president Tim Wentz. Russell Marcks presented another plaque to their group in the student activities session the following day. Since I am also a Region XI RVC for student activities, I was able collaborate with the other 14 RVC's to develop and grow the future of Students in ASHRAE. You can see this report and others on the regional newsletter
<https://regionxithemoose.wordpress.com/>

(continued on next page)

Meeting Notice

Tuesday, February 14, 2017

Presidential Visit: Tim Wentz
Royal Executive Hotel

5:00 – Appetizers/drink
5:30 – Dinner / Chapter Meeting
7:00 – Presidential Speech

Upcoming Events

Tuesday, February 14, 2017

Presidential Visit: Tim Wentz
Estimating Seminar
1:30pm to 3:30pm
Royal Executive Hotel
4025 Albert St. Regina, SK

Wednesday, March 15, 2017

Chapter Meeting
Topic: Refrigeration
Speaker: Greg Scrivener

President's Message (continued)

By Jared Larson

Brad has organized a Presidential visit from Tim Wentz, who has kindly agreed to share his knowledge on estimating and risk analysis. Last year he spoke to the MCA conference on these topics in Saskatoon. He will also be speaking at our evening meeting about his presidential theme of Adapting Today to Shape Tomorrow. It would be great to see a large turnout. Please RSVP to ensure there is adequate seating and food.

Last month I also submitted a proposal to the region for the opportunity fund. There were not a lot of chapters who applied for this, so we will keep our fingers crossed. Last but not least, we are seeking new board members for the upcoming election. We have a great board, and are looking for anyone interested in joining. If you are interested in joining, please let me know. More realistically, we will be approaching various members to fill upcoming vacancies.



From left to right: ASHRAE President Tim Wentz, Brad Lulik and Brent Yeske



Brad Lulik and Brent Yeske receiving their plaques during the student activities session.

Committee Chair Reports

CTTC / Vice-President

By Brad Huber

Good Day ASHRAE, This month we get to welcome our ASHRAE President Tim Wentz. Tim is an associate professor for the University of Nebraska as well as an awarded industry education being named by the Mechanical Contractors Association of America as “Educator of the Year” on three occasions. He has also come from a very diverse background that includes mechanical contracting, mechanical design and even construction management. These are just a few pieces of Tim’s portfolio; I will attach his biography as part of this newsletter.

Along with Tim’s Presidential message he has graciously agreed to provide our chapter with a technical seminar. We will cover such topics as Project Risk, Go / No Go Strategies, Proposal & Scope Letters: How a Client Decides. Details for this will also be included with this newsletter. Please RSVP to me as soon as possible.

Hope to see you all this Valentine’s Day so you can show your love for ASHRAE!



Tim Wentz, P.E., Fellow ASHRAE, HBDP, is an associate professor, University of Nebraska – Lincoln.

As ASHRAE's president, Wentz chairs the Society's Board of Directors and Executive Committee. His theme, *Adapt Today to Shape Tomorrow*, is based on the goal in the Society's Strategic Plan to adapt. Wentz relates this goal to his personal history of moving from a slide rule in his early college days to a hand calculator and now a computer or smartphone as an example of the challenges and opportunities inherent in adapting to new technology.

"All of us have had to come face-to-face with the challenges of adaptation," he said. "It's in the power of adapting that lives, organizations, and communities, are transformed. Our ability to shape tomorrow is borne out of our willingness to adapt today. Together, we can create our future by adapting our resources, investments and technology to shape a more sustainable world."

Wentz was awarded a Bachelor of Science in Mechanical Engineering and a Master's in Business Administration from the University of Nebraska. Upon graduation, Wentz went to work for his family's mechanical contracting firm. As the fourth generation to join the firm, he had the opportunity to develop an expertise in mechanical design, estimating and construction management. He spent 19 years in the industry, working on a wide range of mechanical projects throughout the Midwest, including hospitals, nursing homes, schools, factories and other large commercial enterprises.

Since entering academia, Wentz has received numerous awards and honors for his teaching and service to the HVAC industry. He is the recipient of an Exceptional Service Award, a Distinguished Service Award, the E.K. Campbell Award of Merit, a Region IX Regional Award of Merit, a Region IX Chapter President of the Year and a Regional Energy Award.

The Mechanical Contractors Association of America (MCAA) has named Wentz their national "Educator of the Year" on three occasions and in 2009 awarded him its highest honor, the Distinguished Service Award. He also has received the Durham School of Architectural Engineering and Construction's Outstanding Educator Award and the College of Engineering's Holling Award for outstanding teaching and mentoring.

Wentz previously served as president-elect, treasurer and two terms as vice president on the Board of Directors and also as Region IX director and regional chair.



ASHRAE REGINA TECHNICAL SEMINAR



**Presenter: ASHRAE President
Tim Wentz, PE, HBDP**

**Estimating Topics:
Project Risk – Go/No Go
Strategies – Proposal & Scope
Letters: How A Client Decides**

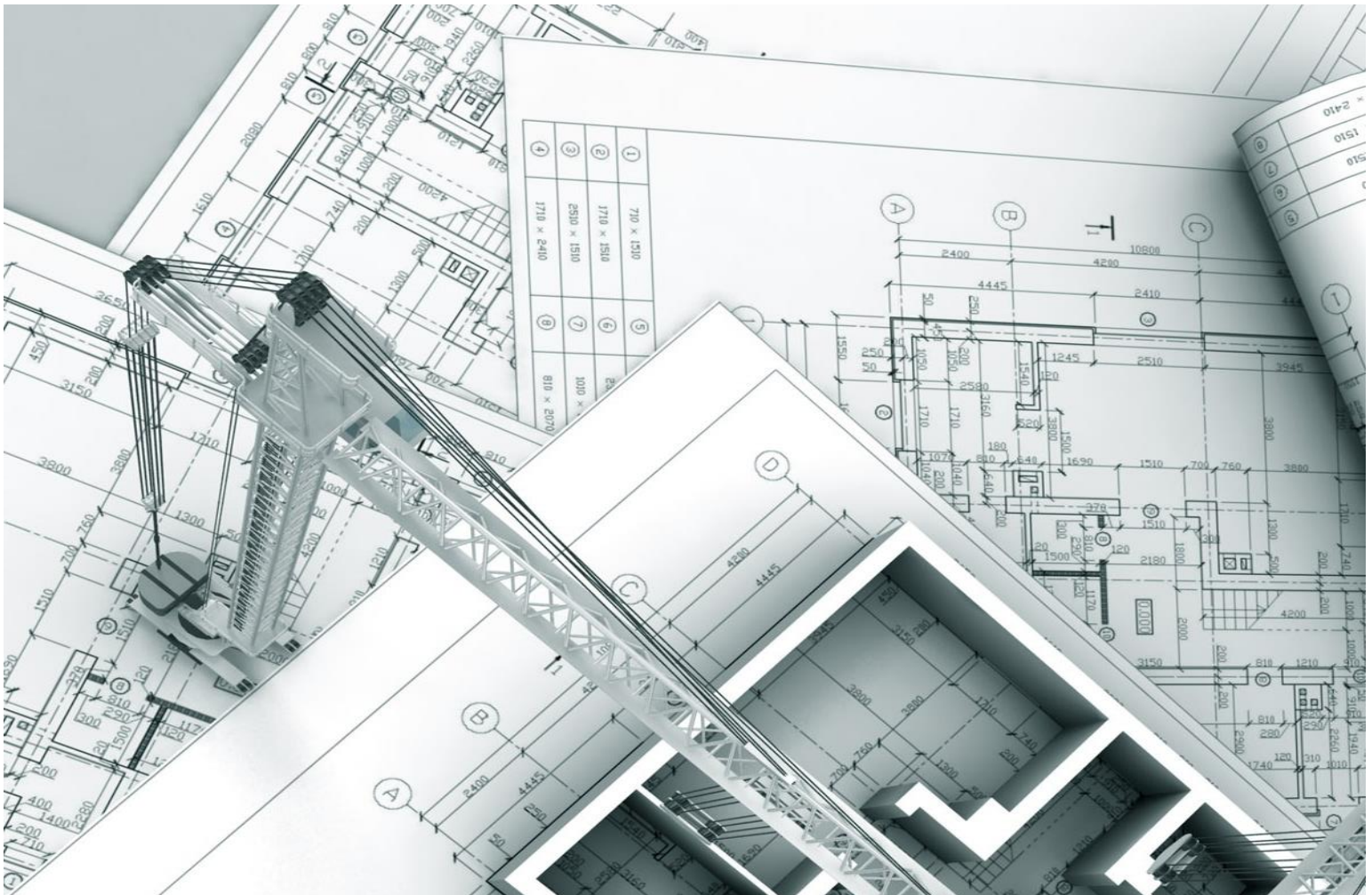
Date: February 14th, 2017

Time: 1:00 PM – 3:30PM

Location: Royal Executive Hotel – 4025 Albert St. Regina, SK

Cost: \$40 (Non-Chapter Members) \$30 (Chapter Members)

RSVP to b.huber@cypresssales.com by February 7th, 2016



Committee Chair Reports - Continued

Research Promotion

By Dan Brothers

Hey everyone, in an attempt to compensate for ruining everyone's Valentine's Day plans, we're going to bring back the Wine Survivor this month. It will be a bit different from before.

Buy in is \$20 and a bottle of wine, or large bottle of beer. For \$30, you can put your name in twice. Depending on how many bottles we have, we'll split it amongst the 3 finalists (for example: 12 bottles will be split with 6 going to the final name drawn and 3 each to the 2 previous names drawn), in an effort to spread the wealth a bit and make more spouses happy. I hope you're able to join in the fun.

Also this month is our Research Promotion night, where we thank the donors from last year. If you donated to the Chapter RP campaign last year, I hope you're able to make it to receive some recognition and thanks from ASHRAE President Tim Wentz. This meeting will surely be a good one; I hope everybody can make it!

Student Activities

By Cailin MacPherson

If anyone has any teacher contacts, I enjoy going into classrooms to do engineering activities and promote engineering as a career - please let me know.





Wine Survivor

This is a fundraiser to help raise money for the Don Bell Scholarship. It's easy to play, and will be in lieu of the 50/50 draw. The rules are:

1. Bring a bottle of wine OR a bottle of beer (approximately 750ml) and a donation of \$20 to the scholarship.
2. Enter your name in the Hat. You can put your name in again for another \$10, but it must be before the draw begins.
3. Throughout the meeting we will draw names out of the hat. If your name is drawn, you get voted off the island.
4. The 2nd and 3rd last names drawn will each get a portion of the wine.
5. The last name in the hat wins the rest of the wine.
6. There is an immunity Idol. It costs \$20 and must be bought before the draw starts.
7. We will start the draw after the guest speaker has done the presentation.

Note from Brad Lulik

2016 ASHRAE Student Design Challenge Winner

This past month, I had the privilege of attending the 2017 ASHRAE Winter Conference and AHR Expo in Las Vegas, Nevada. During my time as an undergraduate student, I was exposed to ASHRAE through the Regina Chapter and was able to see first-hand the commitment to developing our local community. Attending the Winter Conference served as an opportunity to be exposed to the positive impact that ASHRAE strives to achieve at a global level – an experience that I am grateful to have had.

During my first ASHRAE conference, I was able to attend a variety of technical sessions, workshops, and forums which served as a unique opportunity for information-sharing, education, and reflection. I was also able to participate in several planning sessions geared towards enhancing ASHRAE's student program for future generations. Beyond the formal conference programming, the ability to network with like-minded individuals was equally as valuable as a new addition to the HVAC&R industry.

I would like to extend my gratitude for providing Brent Yeske, Eva Rennie, and I with the opportunity to participate in the 2016 Student Design Competition. Without ASHRAE Regina Chapter's commitment to our community, we would not have had the opportunity to access the extensive wealth of knowledge. We look forward to becoming further involved with ASHRAE Regina Chapter as we begin our careers.

Brad Lulik



YEA

By Natasha Skea

Last week I had the distinct pleasure of shadowing Keith Yelton at the ASHRAE Winter Conference as part of the Regional LeaDRS program. Keith is an ASHRAE Director and Regional Chair for Region XI. For more information about the LeaDRS program, drop me a line!

As I boarded the plane to Las Vegas, Nevada I told myself it was going to be fabulous. Right? That's what Vegas is? I had never been to the ASHRAE Winter Conference and wasn't sure what to expect. I had packed a variety of run of the mill business casual clothes, a handful of granola bars and my game face. Luckily for me there were plenty of familiar faces on the plane from Regina and I was able to catch a ride to Caesar's Palace. After checking in and wandering the glittering halls of the forum shops I turned in early, after all- I didn't want to be late for my first day.

When I first met Keith I was scrabbling at the registration desk but his warm demeanor and big smile instantly put me at ease. He was headed to a few regional committee meetings and invited me to tag along. After dropping into Research Promotion (RP) and Government and Grassroots Activity Committee (GGAC) meetings I settled in for the afternoon at the YEA regional committee meeting. Sitting in the gallery I scanned the faces at the table. Of the twenty or so I recognized six. Some I had already met at the YEA Leadership Weekend (highly recommended) and some I had seen on the ASHRAE website. The YEA regional committee meeting is a gathering of all the YEA regional coordinators to talk about what their chapter chairs (aka me) are doing, and how they can make their chapters better. This very relevant content was riveting. They talked about the accessibility of programs currently in place for YEA members, training and opportunities. They talked about the LeaDRS program and asked for my input as a LeaDRS representative. The meeting lasted right through until the plenary session. Going straight there, I caught up with Keith. The keynote speaker, Adam Steltzer, gave a presentation on his work landing the Mars Rover. His account of events and his insights on teamwork and coordination were motivating and we could all take some notes on presenting from him.

Saturday evening there was a welcome party in one of the conference rooms at Caesars Palace. Since it was the Lunar New Year the theme for the evening was new beginnings and celebrations. Amidst the food and drink I ran into a few more familiar face and made some new friends.

Sunday morning saw some very empty technical sessions, but they seemed to fill up as the morning wore on. I met up with Keith again for the Leadership Luncheon. It was a bit surreal being in a room with ASHRAE's best and brightest, along with members of the ASHRAE leadership there were also LeaDRS representatives from other regions and the Leadership U candidates. *Continued →*



From there we went to the ASHRAE director board meeting. I sat in the gallery as Keith took his place at the table. Over the next few hours the board reviewed concerns from the gallery and motions from the directors. The topics ranged from cultural sensitivity (having the conference fall during the Lunar New Year) to high level planning committee reports that were a bit over my head. After a short break the board went into executive session and the gallery was asked to leave. Needing a bit of a break anyway I went down to the YEA hospitality suite and spent some time kicking back with other YEA members. In the evening I was whisked away to the regional dinner to do some more networking. Since I had a 7am meeting the next morning I packed myself off to bed around midnight, not bad for the city that never sleeps.

I arrived at my 7am meeting a little tired but excited to hear the speaker. I had met Julia Keen before, at the ASHRAE Fundamentals training course. Though she helped develop the training course as to the technical content at this breakfast she was talking about women in engineering; not only how to get them there, but how to keep them there. The data she presented in her speech was alarming, and I am convinced that everybody needs to be playing a part in keeping women from leaving our profession. I left her talk conflicted, wondering how I could help. With nothing else scheduled until lunch Keith and I went for coffee and he regaled me with tales of ASHRAE and patiently answered all my questions about the hierarchy and structure. With such a large and complicated organization it sure helps to have a guided tour. After the presidential luncheon I was once again free to wander and I decided to head over to the AHR Expo. The AHR Expo was enormous with over 2,000 exhibitors. Truth be told it was a little overwhelming and I didn't make it through the whole tradeshow (I probably should have taken runners). I went back to the hotel to gear up for the vender events.

I had heard about the vender events but nothing could have prepared me for the large scale of these functions. We started out small at the TACO reception in the Renaissance hotel ballroom, and moved up through the Daikin party at the Paris rooftop patio to the ABB mega event/concert at the Hard Rock Hotel. Even though I was tired, it was hard to pull myself away just after midnight to make sure I would make my 8 am meeting with Keith.

8 am came early but I made it on time. This meeting was called the Members Council and it was made up of the chairs of the regional committee meetings. Keith and I both sat in the gallery as motions were made, discussed and ruled on. There were some hot topics and lots of discussions. Subjects ranging from redesigning the distinguished service pin to starting a new ASHRAE region in Europe. As this was my last scheduled event with Keith we left the meeting with fond farewells. I took in another technical session and headed back to my room to prepare for my last night in Vegas.

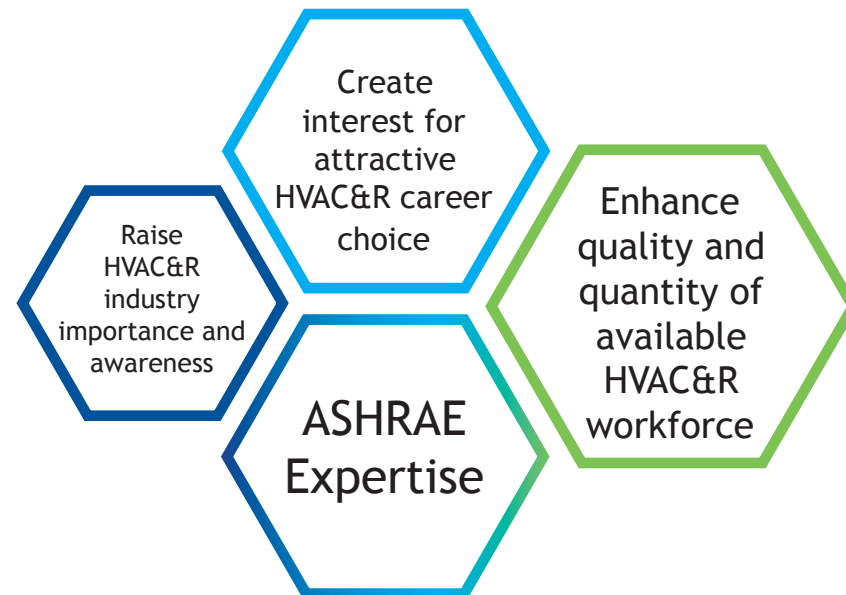
Not wanting to miss a beat I grabbed some takeout pizza and started making plans for the evening. Sadly, 4 nights in Vegas was enough to do me in and I fell asleep long before I could hit the town, but I was in great shape for the journey home.

So long Vegas, it's been fabulous.



Workforce Development in Canada

There is a pressing need in the HVAC&R industry to meet employer demand for highly-skilled, well-paying jobs. By 2022, an estimated 115,000 HVAR&C technicians will be needed to fill openings as a result of industry growth and retirements. In response, ASHRAE banded together with the organizations below to form the HVACR Workforce Development Foundation. The Foundation consists of several organizations with Canadian members (such as ASHRAE) including:



ASHRAE's Canadian and Global Alliances

ASHRAE works closely with several Canadian organizations, including the Canadian Green Building Council, the Heating, Refrigeration and Air Conditioning Institute of Canada (HRAI), and the Building Owners and Managers Association (BOMA) of Canada. The Society also has a strong relationship with the United Nations Environmental Programme (UNEP) and works with professional organizations in over 50 countries through the ASHRAE Associate Society Alliance. The technical expertise generated by this global network helps foster innovation around the world.

Supporting Women & Minorities

ASHRAE is focused on encouraging minorities and women to enter careers in the HVAC&R industry. ASHRAE is a supporter of Women in HVAC&R, an organization formed at the 2002 AHR Expo in Chicago, Illinois, which is cosponsored by ASHRAE and the Air-Conditioning, Heating, & Refrigeration Institute (AHRI).

Elementary and Secondary Education: The Need for Science, Technology, Engineering, and Mathematics

As professionals focused on design, construction, operation, and maintenance of the Canada's buildings and infrastructure, and as educators of future generations of engineers, ASHRAE members recognize the importance of a solid foundation in science, technology, engineering and mathematics (STEM), and as a result, many are active in their local communities and national programs, bringing exciting science and engineering programs to students.

ASHRAE strongly believes that education in STEM subjects is needed at the elementary and secondary school levels to develop the future supply of technicians, engineers, and scientists to meet future workforce needs and ensure our future standard of living. We further believe that parents, educators, governments at all levels, and the private sector have important roles in ensuring that future generations possess the skills and critical competencies necessary to be successful in a highly competitive, global, and technologically sophisticated economy. We must work cooperatively to ensure that children receive the STEM training essential for future success.



Shaping Tomorrow's Built Environment Today



ASHRAE MEMBERS

Canada is home to
5,900+
ASHRAE Members,
16 Chapters and
36 Student Branches

Founded in 1894, is a global society advancing human well-being through sustainable technology for the built environment. The Society and its more than 55,000 members worldwide focus on building systems, energy efficiency, indoor air quality, refrigeration and sustainability. Through research, standards writing, publishing, certification and continuing education, ASHRAE shapes tomorrow's built environment today.

Public Policy Priorities: Taking Action on Shared Values

ASHRAE’s Role in Climate Change Mitigation and Environmental Stewardship

ASHRAE believes the overwhelming scientific research that climate change is the most formidable environmental challenge faced by the global community today.

ASHRAE’s Adaptation to Climate Change

- Fund** scientific research on the impact of greenhouse gases (GHGs) and climate change through our expertise in heating, ventilating, air conditioning and refrigerating (HVAC&R) technologies and applications.
- Analyze** the impact of climate change through lower global warming potential (GWP) refrigerants and energy efficient HVAC&R technology.
- Contribute** to the successful phase out of ozone-depleting chlorofluorocarbons (CFCs) and hydrochlorofluorocarbons (HCFCs).
- Promote** responsible use of refrigerants and efforts to advance technologies that minimize impact on the environment while enhancing performance, cost effectiveness, and safety.
- Integrate** energy efficient HVAC&R systems and building designs to lower GHG emissions and make progress towards climate change goals.

Environmental Stewardship

Living in Environmental Harmony without Compromise: The Promise and Reality of High-Performance, Green Buildings

High-performance, green buildings are in many ways the future of the built environment, as they bring together elements such as site sustainability, water use efficiency, energy efficiency, indoor environmental quality, and other elements that collectively take into consideration the building’s full impact on the ecosystem. High-performance buildings foster better health, well-being and productivity.

Such buildings currently exist, but help is needed today to pave the way to the future. ASHRAE has developed and cosponsored a number of standards, guides, and professional certifications, some of which are highlighted below:

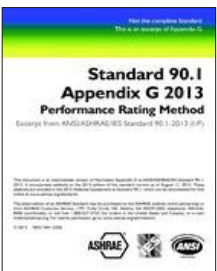
- ANSI/ASHRAE/USGBC/IES 189.1 Standard for the Design of High-Performance, Green Buildings Except Low-Rise Residential Buildings as an alternate compliance path to the International Green Construction Code.
- International Green Construction Code (IgCC)
- 2015 National Green Building Standard™ (NGBS)
- High-Performance Building Design Professional Certification

ASHRAE also promotes the use of cutting-edge best practices, practical solutions, and technologies in the building industry through case studies in High Performance Buildings Magazine, a quarterly, free publication.



ASHRAE Canada Research

Since 1959, ASHRAE has a significant research presence in Canada. These research projects are funded in large part by donations from approximately 800 Canadian members and companies.



ASHRAE’s role in Canadian standards development

The national Canadian government prepares the National Model Construction Codes. In developing the codes, Canada draws heavily from ASHRAE standards, such as ANSI/ASHRAE/IES Standard 90.1-2013 Energy Standard for Buildings Except Low-Rise Residential Buildings. The model codes are then adopted, modified if desired, and enforced by provinces and territories.

Designing for the Unique Challenges Posed by Cold Climate

ASHRAE’s Cold-Climate Buildings Design Guide identifies strategies on how to meet the design challenges created by cold climate conditions, from initial planning to completion.



Indoor Environmental Quality

Improving Building Occupant Health, Comfort, and Productivity While Increasing Building Energy Efficiency

People spend about 90 percent of their time indoors, as a result, indoor environmental quality (IEQ) has a direct impact on health, comfort, and work productivity. IEQ includes factors such as the concentrations of indoor air pollutants, temperature, humidity, lighting, and noise. Well-established research has linked poor IEQ to illnesses such as Legionnaires’ Disease, lung cancer, pulmonary tuberculosis, severe acute respiratory syndrome (SARS), carbon monoxide (CO) poisoning, and asthma attacks. HVAC&R and other building systems play a central role in IEQ.

Superior indoor air quality enhances quality of life while boosting the economy by improving health (thus reducing healthcare costs and absenteeism), school and work performance. ASHRAE has developed a number of standards and guidelines to address the need for good indoor air and environmental quality. In concert with these documents, ASHRAE encourages policymakers to act on the following recommendations:

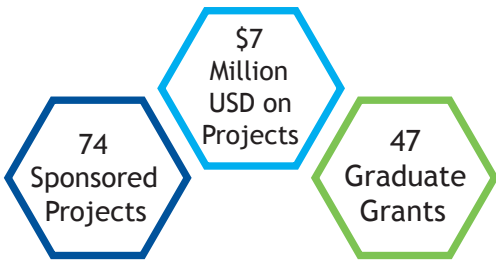
- National, provincial, and territorial governments should support the adoption into codes of ASHRAE’s ventilation and IAQ standards.
- A several fold increase is needed in government and foundation support for IAQ research to address the high priority research agenda described in this document.
- Sustainable building performance codes, programs and standards should be based on thorough consideration of the many parameters impacting IAQ to ensure that limited resources are used effectively and IAQ is not compromised for other goals.
- It is critical to maintain acceptable IAQ as significant changes are made to building design and operation to dramatically reduce energy consumption in response to the threat of global climate change.

In a move to further broaden the impact of IAQ expertise, ASHRAE also recently consolidated with the Indoor Air Quality Association (IAQA) - a large trade association with over 2,600 members and more than 20 local Chapters throughout Canada and the United States.



IAQ Conference Held in Canada

In a move to deepen understanding of the balance between energy efficiency and IEQ, and provide direction for future research, education, and policy, in 2013, ASHRAE held a conference in Vancouver, British Columbia, Canada entitled “Environmental Health in Low Energy Buildings”. The international conference brought together experts from a number of fields and was the 17th in the series of ASHRAE IAQ Conferences that began in 1986. The next such conference will take place from September 12 to 14, 2016 in Alexandria, Virginia, United States and is entitled “Defining Indoor Air Quality: Policy, Standards and Best Practices.”



2016-2017 Meetings and Events

September 14, 2016

Topic: PLEV for Pumps

Speaker: Phil Searl

Location: *Royal Executive Hotel*

January 28-February 1, 2017

ASHRAE Winter Conference

Las Vegas, NV, USA

October 12, 2016

Topic: University of Regina Plant Tour

Speaker: Neil Paskewitz

Location *University of Regina*

February 14, 2017

Topic: Presidential Visit

Speaker: Tim Wentz – ASHRAE President

Location *TBD*

November 9, 2016

Topic: Air Filtration ISO/ASHRAE Standards

Speaker: Larry Isford

Location *TBD*

March 15, 2017

Topic: Refrigeration

Speaker: Greg Scrivener

Location *TBD*

December 16, 2016

Christmas Social

Jerry Seinfeld + Pre-Show Dinner

Location: *Brandt Centre & Queensbury*

Convention Centre

April 12, 2017

Topic: Student Night

Student Night

Location *TBD*

January 11, 2017

Topic: TBD

Speaker: TBD

Location *TBD*

May 10, 2017

Topic: Forced Air System Designs

Speaker: Dan Int-Hout (Distinguished Lecturer)

Location *TBD*

June 2017

ASHRAE Research Golf Tournament



2016-2017 ASHRAE Regina Chapter Board of Governors

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