



September 2018

Pile of Bones

Published by the Regina Chapter of ASHRAE

President's Message

By Natasha Skea

Welcome back ASHRAE Regina. I hope everyone had a good summer and is as excited as I am to get back into the swing of things this fall. We've got a great lineup of programs, seminars and special events planned for this year and we can't wait to share it with you.

It's been a summer of transition for the ASHRAE Regina Board of Governors (BOG). I am pleased to welcome 6 new (or returning) faces to the board this year. Chris Klatt, Brad Lulik, Rob Craddock, Chris Best, Carla Spriggs and Marla Towalt have joined the BOG for the 2018-2019 year. Their positive attitudes and willingness to participate suggest this will be a banner year for us, filled with fresh ideas and opportunities for progressive change. I also want to acknowledge the members who have left the BOG. Many thanks to Alana Yip, Jared Larson, Janel Walter, Dylan Zwozdesky, and Wayne Tkach for all of your years of ASHRAE service and dedication to the Regina Chapter.

There's a new chapter chair on the block. Women in ASHRAE (WiA) is a freshly minted chapter level BOG position and is currently held by Marla Towalt. The WiA chair purpose is to provide resources and fellowship to encourage and support women in the industry. If this is a topic that you want to be involved with, please reach out to me or Marla for more information.

Meeting Notice

**Wednesday September 12,
2018**

Chapter Lunch Meeting
Meeting Location: The Delta
Hotel
1919 Saskatchewan Dr

11:45 – Lunch
12:15 – Presentation /
Chapter Meeting

Upcoming Events

**September 27th - YEA Go
Karting Event**

**October 10th - Soul's Harbour
Passive House Tour
Time T.B.D**

Lastly, congratulations to Jared Larson on his winning submission for the 2018 Regional Tech Award. Project submissions were judged largely on innovation and Jared's Kisik Tower submission was awarded first place in the Residential category! Jared was a long time local BOG member and continues to be involved with ASHRAE at the Regional level (currently Regional Vice Chair of Student Activities).

Our first ASHRAE meeting of the season is coming up soon, Pierre has lined up a highly recommended speaker on indoor grow ops and it's sure to be an interesting topic.

See you next week,

Natasha



2019 ASHRAE WINTER CONFERENCE
JANUARY 12–16 // **AHR EXPO** JANUARY 14–16

Committee Chair Reports

President Elect

By Pierre Ranger

Welcome back to the ASHRAE Regina year! I hope that you will find the meeting topics this year to be interesting. Our September meeting will be about cannabis growth environments which is a very timely topic and was requested by a few different members last year.

In October, we will be hearing about and touring the new Souls Harbour - Samaritan Project which will be Regina's first Passive House facility. For more information on the building, click on the following link.

<http://www.passivehousecanada.com/projects/souls-harbour-rescue-mission-samaritan-passive-house-project/>

Expanding the occasional lunch meeting concept that Natasha tried last year, we will be trying to have a good mix of evening and lunch meetings. Please make sure you check the times and location on the meeting invitation. This upcoming September meeting is a lunch meeting and will be held at the Delta Hotel downtown.



Our speaker for the September meeting is Jim McKillip (pictured left). Jim McKillip is the Western Regional Manager for Desert Aire, a manufacturer of dehumidification equipment. Jim has been an HVAC manufacturer, consulting mechanical engineer, and an HVAC manufacturer's representative. Now, he leads Desert Aire's effort in the western US and western Canada in providing a dehumidification, heating and cooling system engineered specifically for controlled environment agriculture and, in particular, cannabis facilities.

Research Promotion (RP)

By Brad Huber

Last year Jared did an outstanding job with his campaign bringing a lot of new ideas to help contribute money to the Don Bell Scholarship Fund and RP. I hope to do the same this year to reach my goal of \$14,500.00. Our chapter continues to be a strong leader in Region XI when it comes to dollars raised per area assigned members.

Every chapter meeting, we normally hold a 50/50 draw for the night. This is starting to get a bit stale and I am going to continue to do this or another type of nightly draw for as long as there is interest. However I am going to put a spin on a new style of 50/50 for the year. For every chapter meeting that we have, I am going to give an opportunity to anyone who enters wants to enter in an Annual 50/50 draw. Participants will be able to buy a ticket which will go into a pot that will collect throughout the year (Note: Participants will be able to compound their chances of winning by buying up to 5 tickets per person throughout the year). When we have our last chapter meeting we will have a draw to reveal the big winner!

On another topic, I am working with the Alaska CRC Chair for putting together an open raffle for all of Region XI. The prize is for two tickets on the 2019 Alaskan CRC Cruise (\$2,500.00 USD value). While I'm writing this article, I am still in the process of coordinating all of it, however I will be putting out a flyer with further details shortly. However, there will be a limitation on how many tickets will be sold for this so please keep an eye out for it! Proceeds will be split between the Alaska Chapter and Regina Chapter RP campaign.

2017 National Energy Code

By Bob England (Chapter Historian)

As many of you are aware, Saskatchewan will be adopting the 2017 National Energy Code of Canada for Buildings (NECCB) come January 1, 2019.



I was asked by Rob Craddock, the ASHRAE Regina Chapter GGAC Chair (Grassroots Government Advocacy Committee) to represent ASHRAE in the province's "Stakeholder's Discussion on Energy Program Development" meetings. I had been in Vancouver in the mid-90's when the City of Vancouver was going through the initial stages of the adoption their Energy Code, and it was felt my experience with this might be helpful to the Province, combined with an advocacy for adopting ASHRAE standard 90.1 as an alternative compliance path to the NECCB.

I attended my first Stakeholder's Discussion on Energy Program Development Group meeting on August 22, and was pleasantly surprised at the progress that had been made by the Group in preparing for the January 1 implementation of the code.

Represented at that meeting (besides ASHRAE) were the Saskatchewan's Building Standards and Licensing Branch, the City of Saskatoon (Building Standards), the City of Regina (Building Standards), the Saskatoon and Region Home Builders Association, the Regina and Region Home Builders Association, the Saskatchewan Association of Architects, Saskatchewan Building Officials

Association, and the Saskatchewan Green Building Chapter. Although not present, the Association of Consulting Engineering Companies of Saskatchewan is also a member of the group. In addition, there were several guests representing the residential design and construction industry. Much of the group's time was taken up with discussions on Part 9.36 of the National Building Code of Canada (NBCC), which is currently specifically excluded in the adoption of the 2015 NBCC by the Uniform Building and Accessibility Standards Act (UBASA). This Part of the NBCC relates to energy standards associated with Part 9 Buildings, and will also come into effect on January 1. Part 9 buildings are generally small buildings of less than 600 m² (see NBCC-2015 1.3.3.3. for a more specific definition).

Although less time was spent on non Part 9 buildings (my impression was that it was felt that the larger projects handled by the construction industry were more in tune and adaptable to the NECCB), there was still some emphasis on those larger buildings. ASHRAE Standard 90.1 was brought up as an alternative compliance path to the NECCB in these non Part 9 buildings. As this was the first time this concept was brought forward to the group as a whole, discussion was deferred to the September meeting.

I expect the Saskatchewan implementation of the NECCB will involve a great deal of education in the construction industry for much of 2019 and perhaps beyond. Designers, contractors, suppliers, owners, and also Authorities Having Jurisdiction (AHJ) will need to adapt to the new requirements. The Stakeholder's Discussion on Energy Program Development Group's task is to make as smooth as possible the transition into this new code.

It looks like there will likely be forms that municipalities will require design professionals to complete and submit as part of the building permit application. These forms are intended to inform the AHJ as to how the building complies with the NECCB. With these forms it currently looks like the concept of "Coordinating Professional" will be introduced to the whole province as it relates to the new code (currently a requirement of most Canadian provinces for all building elements, and Saskatoon uses this on a limited basis for items such as structural design of structures). The Group is trying to prepare standardized forms that can be used province wide to simplify things for the construction industry. I believe all of these things will work well once we get used to them.

I would encourage all ASHRAE members to become familiar with the 2017 National Energy Code in the next few months. I will keep the Chapter up to date with information as the implementation strategies coming out of the Stakeholder's Discussion on Energy Program Development Group evolve.

Student Activities

By Cailin MacPherson

Student Activities will be supporting the Year 1 to 4 event hosted by the Regina Engineering Student Society. We will be sharing a table and promoting the newly formed ASHRAE Student Branch. This event is a great opportunity to show students the benefits of becoming a student member & joining the ASHRAE Student Branch. If there are any Co-op positions that are needing to be filled, we would be happy to display the postings information at the table – please contact Cailin @ c.macpherson@mac-eng.ca for more information.

On another note, last year ASHRAE was awarded an Opportunity Fund from Society to use on Student Activities. A scholarship was designed to send two children to the EYES summer camp hosted at the UofR this past summer. We received seven applications for the scholarship and settled on two very deserving candidates, their submission on why they love science and engineering is included below.

We are excited for another great year!

Why I Love Science and Engineering

I love science and engineering! My name is Fatima and I am a Grade 7 girl from Gladys McDonald School. One of the reasons why I love science and engineering is because of all the things you can learn and do. My interest in this seems unusual, but allow me to tell you why this is my passion.

There are so many things I want to learn about science and engineering. I feel like learning those things just sometimes helps you out a lot in doing simple tasks. Sometimes in some movies people use science to scare away the bad guys or set traps. Those things are awesome! I've actually tried scaring just random people or setting safe traps around the house (I try my best not end up in trouble).

Ever since I learned what engineering was, I have been curious about it. My goal when I grow is to be an engineer. To me it is amazing how far we've come with science and engineering. For example: technology, traveling to space, even landing on planets and machines, all of this is the result of engineering. Building and doing other things in engineering is also fantastic. I feel like engineering and science are like best buddies! If you are creating a spacecraft as an engineer, you'll probably need to rely on science when you are building it, or just planning it.

Doing science experiments is interesting to me as well because you can learn so much. Science is all around you! If you go to a construction site you can see levers, pulleys, forces and things like that in real life action. I'm passionate to build new things, even if they don't turn out the way I expect them to, or if they don't work. Chemicals are also awesome in science too, just mixing a few liquids can do so much.

I enjoy learning about science and engineering – to me it's fun, interesting and very educational, especially as I desire a career related to those things. The thing I love about doing these two subjects is that learning more about them will help me achieve success in the future.

I would love to be able to go to this camp, and get more opportunities to learn about these exciting topics! Getting this opportunity would be amazing, because I adore learning new things and it would be outstanding if I get a chance to increase my knowledge. Thank you in advance for considering my application.

By: Fatima Zahid

Science and Engineering Essay

Hello! My name is Muhammad Samar Zahid. I am 10 years old. I study in Gladys McDonald School. I am in Grade 5.

I want to be a Engineer when I am an adult because I have always enjoyed trying to make objects. I plan to make a successful, valuable, remarkable and fascinating inventions, if I becom an Engineer. I would like to be a great Engineer in history. Engineering is the best job I could ever wish for. I have a interest in multiple kinds of Engineering such as a Electrical Engineer, Robotics Engineer and Civil Engineer.

For me Engineering is something that will never get boring. I don't care about what I get, it is what I invent. My curiosity for Engineering is irrevocable. I have watched a lot of Engineers work. That makes me get more and more inspired.

I think Science and Mathematics are also something that link with engineering. Why? Because if you are a Engineer you need Science and Mathematics to solve problems. I have a immutable interest for science too. When I was a kid I constantly took apart my toys with my sister and tried inventing new things.

Every time I create something and it doesn't turn out well, I keep on trying, and now I love Science and Engineering. Science and Engineering really are my passion. Engineering is a job that will be permanent for me. I want to be a professional Engineer. I think Science and Engineering are a perfect fit for me.

I think that Science and Engineering would be a career I would enjoy. If I could ever get a scholarship to study whatever I want, I would choose the study of Science and Engineering. It my dream job. That is why I want to take this opportunity to learn more about Science and Engineering - to help me in the future.

Thank you for considering my application.

-Muhammad Samar Zahid

Government Grassroots Advocacy Committee (GGAC)

By Rob Craddock

I am excited to rejoin the Chapter board after a 12 year leave.

Over the last 12 months there have been a lot of changes to the Government Affairs committee the largest change is the new name. Over the course of the year the chapter has goals to become more involved in communicating with all levels of government. Our chapter was asked by the implementation committee for the Canadian Energy code in the province of Saskatchewan. After a couple of discussions with the chief code official for the province and our chapter Bob England from RJ England Consulting has been added to this committee. During the discussion on the Canadian Energy Code the Regina and Saskatoon chapter asked if ASHRAE 90.1 would be allowed as a compliance path to the Canadian Energy code. The committee has asked for more information about 90.1 and we are working to get a current version of 90.1 to supply to the committee.

I am currently working at planning a day at the provincial legislative building to promote ASHRAE and ASHRAE's standards to the government. I will be looking for volunteers to join us once the date is set.

Secretary/Student Branch Advisor

By Brad Lulik

I look forward to serving as the Secretary for the 2018-2019 year. My primary responsibility will be maintaining meeting minutes for the Regina Chapter and Board of Governors, but I am also eager to further familiarize myself with Chapter operations. In addition to my role as Secretary, I have the privilege of serving as the Branch Advisor for the ASHRAE University of Regina Student Branch.

The Student Branch is preparing for their first year of full-operation, with events scheduled throughout the Fall semester. Most notably, the end of September will feature *What is ASHRAE*, which is an opportunity for prospective members to meet the executive team and better understand the benefits of becoming a student member.

The Student Branch executive is eager to host a variety of networking events, tours, and training sessions during the academic year. If your company is interested in supporting an event being hosted by the Student Branch, please watch your inbox for the 2018-2019 sponsorship package. For more information, feel free to contact Brett directly:

Brett Banadyga, President

ASHRAE University of Regina Student Branch

ashraeuofr@gmail.com

I look forward to providing regular updates on behalf of Brett Banadyga. If you have any questions or comments regarding my role as Secretary or Student Branch Advisor, please feel free to contact me via email (b.lulik@mac-eng.ca) or phone (306.520.8584).

Ways and Means

By Carla Spriggs

Welcome back fellow ASHRAE members. I hope everyone had a lovely summer and got some time with their loved ones. I will be serving as your Ways and Means chair for the coming ASHRAE year. Some of my duties include organizing the golf tournament and Christmas social. In October I will be sending out a survey to the Chapter with some options for the Christmas social. Please take a moment to answer the very brief survey so that we can plan an event that the majority of the chapter would like to attend. Please feel free to send me any suggestions that you may have via email (cspriggs@hdaeng.com).

Women in ASHRAE (WiA)

By Marla Torwalt

Hope everyone had a great summer! This is the first year for the Women in ASHRAE (WiA) committee in the Regina Chapter. The mission of WiA is to encourage the retention of women in ASHRAE by providing opportunities for professional development, networking and leadership. We'll be hosting a networking event in February and we hope to see you there! We'll keep you updated on the date and details.

Young Engineers in ASHRAE (YEA)

By Marla Torwalt

I am honored to be your YEA chair this year and excited for the events to come. YEA is a community within ASHRAE focused on engaging new and future Engineers into the HVAC&R industry. We strive to provide education and guidance as well as to create a space for new Engineers to seek support and advice from fellow peers as well as mentors. The program is geared towards ASHRAE members that are 35 years of age and younger but anyone who wants to partake in the events is more than welcome.

I am happy to announce our first YEA event happening on **Thursday September 27**. We will be racing Go Karts out at the 3 Flags Motorsports Park near Lumsden. Hopefully we can get everyone out for a fun evening. And it'll be a great opportunity to meet your fellow YEA community. More information on this event can be found in the event poster to be distributed. Dress for the weather.

Please consider becoming a sponsor. In order for these events to take place, we count on our fellow Engineers, wholesalers, suppliers, and contractors within the HVAC&R community to invest in our future leaders. If you are interested in sponsoring one of our events, please feel free to contact me by email (carla.drager@allrite.ca) or phone (306-522-0050) for more information.

When: Thursday September 27

Time: 5:00 pm

Where: 3 Flags Motorsports Park
(HWY 11 towards Lumsden, take Exit C,
turn left at the stop sign, and it'll be on
your left hand side)

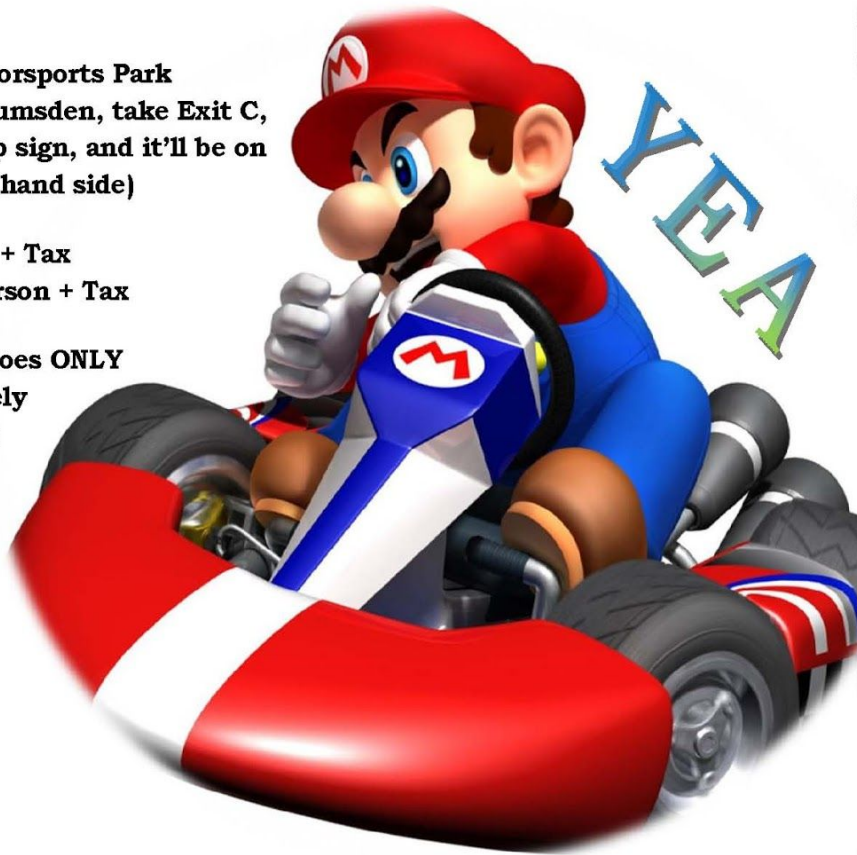
Cost: \$49/person + Tax
Students \$25/person + Tax

Attire: Close toe shoes ONLY
Dress appropriately
for the weather



Young Engineers in ASHRAE (YEA) is a community focused on engaging new and future Engineers into the HVAC&R industry by providing insight, education, and support from peers and mentors.

Please RSVP by Friday September 21 to carla.drager@allrite.ca



YEA

Go Karts

2018-2019 Meetings and Events

September 27, 2018

YEA Go Karting Event

*Location: 3 Flags Motorsports Park,
Lumsden, SK*

October 10, 2018

Topic: Souls Harbour Samaritan Project

Passive House Facility

Speaker: TBD

Location: TBD

Other Chapter Meetings will be
announced in the following newsletter

January 12-16, 2019

ASHRAE Winter Conference

Atlanta, Georgia

2018-2019 ASHRAE Regina Chapter Board of Governors

President

Natasha Skea
WSP Canada Inc.
natasha.skea@wspgroup.com

Past President & Research Promotion

Brad Huber
Cypress Sales Partnership
b.huber@cypresssales.com

President Elect & Programs Chair

Pierre-André Ranger
Johnson Controls Canada LP
pierre-andre.ranger@jci.com

Membership Promotion

Chris Klatt
HDA Engineering Ltd.
cklatt@hdaeng.com

Secretary/ Student Branch Advisor

Brad Lulik
MacPherson Engineering Inc.
c.macpherson@mac-eng.ca

Student Activities

Cailin MacPherson
MacPherson Engineering Inc.
c.macpherson@mac-eng.ca

Treasurer

Josh Thomas
Cypress Sales Partnership
j.thomas@cypresssales.com

Contact us at:

ashraeregina@gmail.com

Visit us at:

<http://regina.ashraechapters.org/>

Ways & Means

Carla Spriggs
HDA Engineering Ltd.
cspriggs@hdaeng.com

Historian / Webpage

Bob England
RJ England Consulting Ltd.
bob@rjengland.com

GGAC (Government Grassroots

Advocacy Committee) Chair
Rob Craddock
Inland Metals Manufacturing Ltd.
rob@inlandmetal.ca

YEA (Young Engineers in ASHRAE) Chair

Carla Drager
All-Rite Mechanical Ltd.
carla.drager@allrite.ca

WIA (Women in ASHRAE) Chair

Marla Torwalt
MacPherson Engineering Inc.
m.torwalt@mac-eng.ca

Newsletter

Chris Best
RJ England Consulting Ltd.
chris@rjengland.com

2018-2019 ASHRAE Society Executive

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Golden, Colorado

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Dennis Knight
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2018-2019 ASHRAE Regional Executive

Director and Regional Chair

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RP RVC

Les Pereira
Vancouver, British Columbia

Regional Members Council

Representative

Eileen Jensen
Bonneville, Oregon

GGAC RVC

Jeff Hurd
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Chapter Technology Transfer RVC

Heric Holmes
Edmonton, Alberta

Regional Historian

Doug LeCren
Anchorage, Alaska

Student Activities RVC

Jared Larson
Regina, Saskatchewan

YEA RVC

Baki Cvijetinovic
Vancouver, British Columbia

Nominating Committee Member

Rob Craddock
Regina, Saskatchewan

Membership Promotion RVC

Greg Fluter
Regina, Saskatchewan

Nominating Committee Alternate

Jeff Hurd
Anchorage, Alaska

Regional Webmaster

Emily Winfield
Alaska

Treasurer

Tom Jacknisky
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