



October 2020

# Pile of Bones

Published by the Regina Chapter of ASHRAE

## President's Message

By Cailin Noll (MacPherson)

A friendly hello to all Regina ASHRAE Chapter members. I hope everyone is getting outdoors and enjoying this beautiful fall weather. Thank you to all those who responded to the in-person meeting survey we sent out back in September. Based on the results of that survey, planning an in-person meeting at this time is not feasible. We will revisit the topic come December or January. With that said, we will be moving forward with a live vote during our October meeting to vote in the new Board of Governors members and acceptance of the 2020/2021 budget. Voting will happen during the chapter meeting portion of the online event on October 14<sup>th</sup>. On another note, the ASHRAE Winter Conference has been postponed from January until March. You can find more information about the conference here:  
<https://www.ashrae.org/conferences/2021-winter-conference-chicago>

**Wednesday, October 14, 2020**

ASHRAE Regina Chapter Meeting  
Topic: Your new ASHRAE Headquarters is currently under construction in Atlanta Georgia and slated for occupancy in October 2020. The 66,000 square foot 1970's era urban office is under heavy renovation into a leading edge example of a net zero energy facility. Tim McGinn is the Chair of the Technical Advisory Subcommittee of the ASHRAE Headquarters AdHoc Committee and will outline the necessity of the new headquarters, the design process, and the resulting design that takes the building toward net zero energy without a compromise in indoor environmental quality.

Meeting Location: **Online**  
<https://global.gotomeeting.com/join/970772573>  
Access Code: 970-772-573

4-5pm – Presentation  
5-5:30 – Chapter Meeting

### **Upcoming Events**

November 2020 – ASHRAE Chapter Meeting Location TBD

Carla, our CTTC & Programs Chair came up with a great idea: given the difficult year and our new virtual platform for hosting meetings, we want to thank and appreciate our members for their continual support. We will be randomly selecting 2 people each virtual meeting; 1 person from the attendance list and 1 person who asks the best question at the end of the presentation, and giveaway a gift card to a different place selected each month. October's appreciation giveaway will be provided by the Regina ASHRAE Chapter. Any companies who can support our initiative to promote the continuous pursuit of knowledge please let us know and we will include you in our next virtual meeting

I hope everyone has a wonderful long weekend. Stay Safe!

## **Vice President's Message**

By Carla Drager

I want to thank everyone for joining us in our very first virtual ASHRAE meeting last month. Although it was a different experience than we are used to, I am glad that so many of our members and guests could join us. We've got another interesting and relevant topic this month presented by our very own ASHRAE Society Vice President, Tim McGinn. Tim is joining us from Calgary, Alberta and is a professional engineer with degrees in both mechanical and electrical engineering. He has been a partner in a national multi-discipline engineering firm, a national MEP firm, and the latest, a national integrated architectural and engineering firm. Tim's passion is a specialization in designing low impact/low energy systems for green buildings that maximize indoor environmental quality. For the last twenty-five years, he has applied and adapted the use of European HVAC technologies in North America, using displacement ventilation, natural ventilation, TABS (thermally active building systems), underfloor air distribution, low temperature radiant heating and high temperature radiant slab and panel

cooling.

Tim McGinn will share the innovative design and net zero features in our new ASHRAE Headquarters located in Atlanta, Georgia. The presentation will cover the following:

“Your new ASHRAE Headquarters is currently under construction in Atlanta, Georgia and slated for occupancy in October 2020. The 66,000 square foot 1970’s era urban office is under heavy renovation into a leading edge example of a net zero energy facility. Tim is the Chair of the Technical Advisory Subcommittee of the ASHRAE Headquarters AdHoc Committee. Tim will outline the necessity of the new headquarters, the design process and resulting design that takes the building toward net zero energy without a compromise in indoor environmental quality.”

- Tim McGinn

Please join us through the link on the meeting invitation.

## **Past President's Message**

By Pierre-André Ranger

As the Research Promotion chair for our chapter, I wanted to highlight some of the research being done with the money that our members donate to our Research Promotion campaigns. We are fairly lucky in Saskatchewan (and yes I’m bulking Saskatoon and Regina as one area) as we have had quite a few projects go to the University of Saskatchewan’s HVAC professor Dr. Carey Simonson. His research has tended to focus on improved energy recovery methods and better understanding of the issues surrounding heat recovery systems. Some of his research quantified have affected current designs: As part of an ASHRAE funded research project, his team tested and proved that energy (also known as enthalpy) recovery wheels are capable of handling lower outside air temperatures (roughly -

25 C) before beginning to frost compared to typical heat recovery wheels (roughly - 18 C). Dr. Simonson is currently doing further ASHRAE funded research and I asked him to provide us with a short description of the project. Below is his description of the work he is doing.

*“The contract is to develop a test method to quantify the transfer of gaseous contaminants between exhaust and supply air streams by rotating energy recovery wheels. The test methodology will help quantify the risk of gaseous contaminants in the exhaust airstream being adsorbed by desiccant-coated wheels and then desorbed into the fresh ventilation airstream. We will test two different desiccant-coated energy wheels with 11 different gases at over 25 different test conditions.*

*Dr. Carey Simonson, PHD, University of Saskatchewan”*

Lastly, I would like to thank all of donors for the past ASHRAE year and that I hope that you understand that your money is helping to advance our industry forward and employing researchers right here in Saskatchewan.

## ASHRAE Issues Statements on Relationship Between COVID-19 and HVAC in Buildings

**ASHRAE leadership has approved the following two statements regarding transmission of SARS-CoV-2 and the operation of HVAC systems during the COVID-19 pandemic.**

Transmission of SARS-CoV-2 through the air is sufficiently likely that airborne exposure to the virus should be controlled. Changes to building operations, including the operation of heating, ventilating, and air-conditioning systems, can reduce airborne exposures.

Ventilation and filtration provided by heating, ventilating, and air-conditioning systems can reduce the airborne concentration of SARS-CoV-2 and thus the risk of transmission through the air. Unconditioned spaces can cause thermal stress to people that may be directly life threatening and that may also lower resistance to infection. In general, disabling of heating, ventilating, and air-conditioning systems is not a recommended measure to reduce the transmission of the virus.

### **ASHRAE Position Document on Infectious Aerosols**

On April 14, 2020, the ASHRAE Board of Directors approved the ASHRAE Position Document on Infectious Aerosols. This position document replaces the ASHRAE Position Document on Airborne Infectious Diseases. This position document outlines ASHRAE's position that facilities of all types should follow, as a minimum, the latest published standards and guidelines and good engineering practice. Based on risk assessments or owner project requirements, designers of new and existing facilities could go beyond the minimum requirements of these standards, using techniques covered in various ASHRAE publications, including the ASHRAE Handbook volumes, Research Project final reports, papers and articles, and design guides, to be even better prepared to control the dissemination of infectious aerosols.

Please visit the newly updated ASHRAE's Resources webpage at <https://www.ashrae.org/technical-resources/resources> for additional details. The page includes frequently asked questions and the latest information on the ETF's guidance for healthcare facilities, residential buildings and other issues related to the COVID-19 pandemic.

## 2020-2021 Meetings and Events

---

### **Wednesday October 14, 2020**

Time – 16:00 – 17:00 Presentation  
17:00 – 17:30 Chapter  
meeting

Presenter – Tim McGinn, P.Eng.  
ASHRAE Society Vice President

#### Topic:

Your new ASHRAE Headquarters is currently under construction in Atlanta Georgia and slated for occupancy in October 2020. The 66,000 square foot 1970's era urban office is under heavy renovation into a leading edge example of a net zero energy facility. Tim McGinn is the Chair of the Technical Advisory Subcommittee of the ASHRAE Headquarters AdHoc Committee and will outline the necessity of the new headquarters, the design process, and the resulting design that takes the building toward net zero energy without a compromise in indoor environmental quality.

Location: GoTo Meeting

<https://global.gotomeeting.com/join/970772573>

Access Code: 970-772-573

November  
2020

Topic: TBD

Date & Time TBD

Other Chapter Meetings will be announced in future newsletter

# 2020-2021 ASHRAE Regina Chapter Board of Governors

---

## *President*

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

## *Past President & Research Promotion*

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

## *Vice President & Programs Chair*

Carla Drager  
Johnson Controls Canada LP  
carla.drager@jci.com

## *Membership Promotion*

Nathan Cross  
Stantec  
Nathan.cross@stantec.com

## *Secretary/ Student Branch Advisor*

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

## *Student Activities*

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

## *Treasurer*

Brad Lulik  
MacPherson Engineering Inc.  
b.lulik@mac-eng.ca

Contact us at:

[ashraeregina@gmail.com](mailto:ashraeregina@gmail.com)

Visit us at:

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

## *Special Events*

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

## *Historian / Webpage*

## *Government Affairs Committee Chair*

Chris Klatt  
HDA Engineering Ltd.  
cklatt@hdaeng.com

## *YEA (Young Engineers in ASHRAE) Chair*

Tyler Gamble  
Canature Water Group  
tyler.gamble@canaturewg.com

## *Diversity in ASHRAE Chair*

Henry Reynoso  
Refrigerative Supply  
henryr@rsl.ca

## *Communications & Newsletter*

Patrich Costa-Muresan  
patrich.costa-muresan@gov.sk.ca



## 2020-2021 ASHRAE Society Executive

---

### **Executive Committee**

*President*

Charles E. Gulledge III  
Greensboro, North Carolina

*Vice President*

Donald L Brandt  
Phoenix, Arizona

*President-Elect*

Michael C.A. Schwedler  
La Crosse, Wisconsin

*Vice President*

Tim McGinn  
Calgary, Alberta

*Treasurer*

Farooq Mehboob  
Karachi, Pakistan

*Vice President*

Bill McQuade  
New Cumberland, Pennsylvania

*Vice President*

Bill Dean  
Saskatoon, Saskatchewan

### **Directors – at – large**

Wade Conlan  
Maitland, FL

Jaap Hogeling  
Leiden, Netherlands

Kenneth Fulk  
Allen, TX

Sarah Maston  
Hudson, Massachusetts

Katherine Hammack  
Alexandria, Virginia

Adrienne Thomle  
Reno, NV

Kelly Cramm  
Lenexa, Kansas

Chandra Sekhar  
Singapore

Ashish Rakheja  
Noida Uttar Pradesh, India

## 2020-2021 ASHRAE Regional Executive

---

*Director and Regional Chair*

Rusell Lavitt

*RP RVC*

Les Pereira

*Regional Members Council*

*Representative*

Eileen Jensen

*GAC RVC*

Daryl Collerman

*Chapter Technology Transfer RVC*

Janice Peterson

*Regional Historian*

Doug LeCren

*Student Activities RVC*

Tracy McKeon

*YEA RVC*

Baki Cvijetinovic

*Nominating Committee Member*

Jeff Hurd

*Membership Promotion RVC*

Louise McKenzie

*Nominating Committee Alternate*

Greg Fluter

*Regional Treasurer*

Norm Grusnick