



April 2021

# Pile of Bones

Published by the Regina Chapter of ASHRAE

## President's Message

By Cailin Noll

Happy Spring, Regina ASHRAE members! Despite our COVID-19 circumstances, I hope everyone has been able to get out and enjoy the weather with their loved ones.

The 2021 CRC will be virtual. The exact dates are still being determined, we will be sure to send out information once it's available for any of those interested in joining. It's a good opportunity for new members to see how ASHRAE conducts business.

If you have any questions or comments on the 2020/2021 please feel free to reach out.

Thank you.

## Vice President's Message

By Carla Drager

Good day everyone! Hope we are staying healthy and sane out there during our Regina wide shutdown. We've got an exciting chapter meeting this month, one of my favorites, to keep you educated and entertained. Please join us to welcome our University of Regina students as they share their projects with us and all the hard work and time that they

### ASHRAE Regina Chapter

**Meeting Date** – Thursday April 15<sup>th</sup>, 2021

**Time** – 12:00pm – 1:20pm

Presentation,

1:20pm – 1:30pm Chapter Meeting

### **Presentation – ASHRAE Student Night**

**Topic** - Three engineering student groups from the University of Regina will be presenting their 4<sup>th</sup>-year Capstone Project presentation

### **Login Information:**

<https://global.gotomeeting.com/join/227387365>

### **Call in option:**

Canada: +1 (647)497-9391

Access Code: 227-387-365

have spent on them. Take a look at Marla's Student Activities article for a sneak peak on the projects that will be presented.

Look forward to seeing everyone!

## **Student Activities Chair**

By Marla Torwalt

It's that time of year again! Spring! Well, clearly not today but maybe by the time you read the newsletter. And that means we have another great set of student presentations for our April meeting. We'll have presentations on an Energy Audit for the University of Regina Education Building, a Portable VAV System designed for the HVAC class lab and an analysis of PEX Heating Lines for Windows. We hope to see you there!

## **Student Branch**

By Jared Larson

For those who are not aware, Brad Lulik and I are current student branch advisors. Over the last few years we have been involved as lab instructors for the fourth year HVAC elective course ENIN463. I find it interesting that in a time of covid, the faculty was supportive of this class to be one of the few classes offered in person. To me, this means the faculty is recognizing the benefits of the hands on learning in this course. The class started off with the ASHRAE BEQ course, and has slowly evolved into a design and budgeting class. We cover codes, standards, design criteria, owner project requirements, design calculations, system selection, single line design drawings, budgeting, and most importantly they present their designs and back up their decisions. The class uses mechanical rooms on campus combined with smaller lab demonstration units. Over the last couple years, we have received equipment grants for 5000 USD from ASHRAE to build these demonstration units. This year Emily, Avah and Christina designed a portable functioning VAV system using a variable speed Fan ECM fan coil (see photos). After designing it, they met with Christie mechanical who helped assemble it based on their design drawings. Similar to the real world, they faced geometric challenges with the install and were able to work with Christie mechanical to modify designs and maintain functionality. The group also gained experience managing project schedules and budgets. Each VAV is controlled by a thermostat in a micro room with a heat source to

simulate a real system. The success of the grant application heavily relies on industry partnerships, and I want to thank Christie mechanical for their patience and time invested, as well as all the hours of labour. I also want to thank both Mike's at EH Price for their generous donation of Boxes, dampers, controllers, and fan coils. Thanks to the U of R FM as well for lending instrumentation to calibrate boxes and read air pressure drops. The group is finishing off their verification and measurements of the apparatus and making comparisons to the design calculations.

We just received a letter from ASHRAE Society indicating we are successful in this year's grant application which was submitted in November 2020. We (meaning the students) will be designing and constructing an ice storage facility that will provide chilled water to the fan system built this past year. To add a Canadian flare, it will be designed as an ice hockey table. Thank you in advance to Henry (RSL) for your help with this!!





We consider ourselves fortunate to have so much support from industry through ASHRAE. Our long term vision is to continue to keep ASHRAE's presence strong on campus, and we have started asking more people to come and talk to the class. This past year we also had alumni from this HVAC class return to present on their current roles in the industry, talk about how they got their job, and offer any words of wisdom they can share. Kyle (Trane), Gage (Inland Metal), Liam (Greenwave), Brett (AME), and Travis (RJ England) joined by Zoom call. Pierre



(JCI) has joined us from the beginning for a discussion on building automation.

Again, I want to thank the Regina chapter for various support.

## 2020-2021 Meetings and Events

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**Meeting** – Thursday, April 15<sup>th</sup>, 2021

**Time** – 12:00 – 1:20 presentation

1:20 – 1:30 Regina Chapter

**Presenter** –ASHRAE Student Night

**Topic** – Three engineering student groups from the University of Regina will be presenting their 4<sup>th</sup>-year Capstone Project presentation

**Location:** GoTo Meeting - Online

<https://global.gotomeeting.com/join/227387365>

**Access Code:** 227-387-365

Dial In Using your Phone: US - [+1 \(571\) 317-3129](tel:+15713173129) ; Canada - [+1 \(647\) 497-9391](tel:+16474979391)

### **AGENDA - TBD**

**Next Meeting** in April 2021

Topic: TBD

Date & Time TBD

Other Chapter Meetings will be announced in future newsletter

## 2020-2021 ASHRAE Regina Chapter Board of Governors

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### *President*

Cailin MacPherson  
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### *Past President & Research Promotion*

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### *Special Events*

Josh Thomas  
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### *Historian / Webpage*

### *Government Affairs Committee Chair*

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

Tyler Gamble  
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### *Diversity in ASHRAE Chair*

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### *Communications & Newsletter*

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## 2020-2021 ASHRAE Society Executive

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## 2020-2021 ASHRAE Regional Executive

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