

President's Message

By Dan Brothers

Hello again everyone, here we are in April already, 1 quarter of the way through 2016. If you haven't kept up with your New Year's resolutions at this point, there is no sense in trying anymore; better luck next year.

First off, a big thanks to Greg Scrivener for coming to last month's meeting. We had an afternoon seminar on refrigeration design before the meeting where he spoke more on the topic. It was a very informative and a nice technically-inclined presentation. Just the kind of thing we want to offer more of. I learned a lot myself and heard good things from some others who took part. It could have been stretched to a full day seminar, so maybe that's a good reason to have him back sometime. Greg has recently been named to ASHRAE's list of Distinguished Lecturers, so congratulations are in order. We hope things go well for him in the future.

The meeting this month is our annual Student Night at the Travelodge on Albert Street. This is when the UofR engineering students present their year-long design projects to us. It is usually about 3 groups, you can see Jared's article for a more detailed synopsis of what to expect. We will also be presenting the annual budget. Don't hesitate to speak up if anything seems amiss.

Meeting Notice

Wednesday, April 13, 2016

Travelodge Hotel and Conference Centre

4177 Albert Street South
Regina, SK

Student Night

Cocktails begin at 5:00PM

Upcoming Events

May 2016

LEAN Panel Discussion
Royal Regina Golf Club

June 23, 2016

ASHRAE Research
Golf Tournament
Deer Valley Golf Course

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President's Message - Continued

Coming up later this month, on April 21st from 11:00 am – 2:00 pm, is the annual ASHRAE Webcast. The topic this year is “Making Net Zero Net Positive: Solving the Efficiency & Cost Paradox”. Alana Yip, incoming Chapter Secretary, kindly booked the conference room at her SaskTel office to host a viewing. There is capacity for 22 people, so get in touch with me or Alana quickly if you would like to attend. Lunch will be provided. You can register and watch on your own as well. Here's the link to the Webcast site: <https://www.ashrae.org/membership--conferences/webcasts>

Coming up on May 12 – 14 is the annual Chapter Regional Conference (CRC). It's in Saskatoon this year, for their Chapter's 50th anniversary. Only 3 people from the Board are required to attend, but we are hoping to get more than that. I encourage you to consider attending, especially if you haven't been to one before. There are good technical sessions; chances to do networking with potential future colleagues, and you get to see the inner workings of how ASHRAE operates. The added bonus is Saskatoon is only a few hours' drive away. I believe the incoming Society president, Tim Wentz, will be in town that weekend as well. The Chapter can help you out with a hotel room, but don't book it until you contact me or Jared first. Attached to the newsletter is the CRC Program as well as some info on the Technical Session Speakers. Here is the link to the website: <http://www.ashraesaskatoon.ca/2016CRC>

Our May meeting is a joint meeting with Construction Specifications Canada to have a LEAN panel discussion. It will be at the Royal Regina Golf Clubhouse. More details to follow.

See you at the Travelodge.

Committee Chair Reports

Past President's Message

By Janel Walter

Thank you to all of those individuals and companies who have already made gracious donations to support the 2015/16 ASHRAE Regina Resource Promotion campaign. We are currently at 62% of our goal for this year.

Over the next couple of months we will be making the last efforts to finish off our research campaign. I will be spending the next few weeks collecting donations from members and helping to organize the upcoming ASHRAE/MCA joint golf tournament. More information on that will be available soon! The golf tournament is our last organized event geared towards reaching our research fundraising goal of \$14,000 and I am very confident we will get there!

See you all at the upcoming Student Night!

Committee Chair Reports

Historian's Message

By Bob England

This article carries on from last month's article on the second year (1963/64) of the Regina Chapter (then known as the Saskatchewan Chapter) more from the 1993 Regina Chapter History document.

1964-1965 : President - Bill Herr

The Saskatoon meeting was held in November with 68 in attendance. Mr. Otto Ulrich of Armstrong Machine Works spoke on Humidification of Air Handling Systems.

The December meeting was of a Christmas Social. The January meeting notice was sent out on green paper (the colour of money) to those whose dues were due. Meeting programs included a tour of the new SPC Building, and talk on the Squaw Rapids Hydro Electric Plant, a tour of the Kalium Chemicals Potash Plant, and a Molson Brewery Tour.

Our local curling playdown winners were L. Wilkinson, W. Sheppit, V. Grosse, and W. Herr. This foursome represented us in the John Ross Curling Trophy playdowns on March 19th which were held in Regina.

The CRC was held in Winnipeg May 5th with R. J. Briggs as our delegate and Bill Herr as alternate.

Student Presentations

From the University of Regina

ISE 12: K+S Windsor Salt 900 Screw Conveyor Redesign

Presenters: Magda Seitz, Carly Meena

K+S Windsor Salt Belle Plaine is a facility in southern Saskatchewan that produces salt as its major product. The production of salt is a continuous operation that requires a number of process equipment and control systems. The current process frequently experiences process upsets, causing the operation to shut down and/or produce salt product without meeting the desired specifications. In this design project, the 900 screw conveyor transferring salt from the filter wheel to the vibrating fluid bed has been identified as a priority area that requires improvements to safety and reliability. The screw conveyor will be modified to divert the off-spec product during a process upset to a newly proposed diversion system that was designed to transform the off-spec into a slurry and transfer it to a recycle tank. The associated process controls were reconfigured to ensure the operation of the new diversion system was fully automated. In addition, the exit chute of the 900 screw conveyor was redesigned to prevent plugging.

ISE 10: Energy Analysis & Mechanical Redesign of Little Souls Daycare

Presenters: Brent Yeske, Brad Lulik, Eva Rennie

Little Souls Day Care is a fully-licensed and subsidized child care facility owned and operated by Souls Harbour Rescue Mission. The daycare, originally built as a church, has a poorly functioning heating, ventilation and air conditioning (HVAC) system, making the building hot and humid during the summer and uncomfortably cool in the winter. A full energy analysis was done on the building in order to determine the root causes of their mechanical system problems, and a new HVAC system was proposed for implementation.

From Saskatchewan Polytechnic

Presenters: Allan Barnhill, Cecile Hyatt

The capstone project is a 5th semester course instructed in MooseJaw. This project is part of the design course. This years project is a visitor information center. It includes Architecture, structural, mechanical, and Electrical design. Students are challenged to be creative in their solutions. Although Students work individually to come up with unique designs around a common set of project criteria, they will share the presentation. Both designs incorporate a boiler design with radiant floor heating.

2015-2016 Meetings and Events

September 23, 2015

Tour of RRI Roughrider Stadium

Speaker: Chad Arcand

Bushwakker Brewpub

October 13, 2015

ASHRAE 90.1 Seminar

Double Tree Hotel

October 13, 2015

Speaker: Chris Mathis –

ASHRAE 90.1 Flyover

Double Tree Hotel

November 10, 2015

Speaker: Dan O’Brien –

Halton Kitchen Equipment

The Chimney

December 4, 2015

Christmas Social – Brent Butt

Casino Regina Show Lounge

January 13, 2016

Speaker: Kyle Bottorff - Hydronic Design and
Control Strategies for Condensing Boilers

Lakeshore Restaurant

January 25-27, 2016

ASHRAE Winter Conference

Orlando, FL

February 9, 2016

Speaker: David Underwood – Presidential Visit

Hotel Saskatchewan

March 9, 2016

Speaker: Greg Scrivener – Refrigeration

Royal Executive Hotel

April 13, 2016

Student Night

Travelodge Hotel

May 2016

LEAN Panel Discussion

Royal Regina Golf Club

June 23, 2016

ASHRAE Research Golf Tournament



2015-2016 ASHRAE Regina Chapter Board of Governors

President

Dan Brothers
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Treasurer

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GGAC

TBD

Secretary

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Newsletter

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Student Activities

TBD

YEA Chair

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

2015-2016 ASHRAE Society Executive

President

David Underwood
Oakville, ON

President-Elect

Timothy Wentz
Lincoln, NE

Treasurer

Bjarne Olesen
Kongens Lyngby, Denmark

Vice President

Walid Chakroun
Safat, Kuwait

Vice President

Patricia Graef
Fort Myers, FL

Vice President

Charles Gullledge III
Greensboro, NC

Vice President

James Vallort
Chicago, IL

Secretary

Jeff Littleton
Atlanta, GA

2015-2016 ASHRAE Regional Executive

Director & Regional Chair

Keith Yelton
Portland, OR

Treasurer

Tom Jacknisky
Edmond, AB

Assistant Regional Chair

Kevin Marple
Beaverton, OR

CRC Chair

Ryan MacGillivray
Saskatoon, SK

Regional Members Council Representative

Russ Lavitt
Winnipeg, MD

RP PVC

Ruth Armstrong
Eagle River, AK

Chapter Technology Transfer

Heric Holmes
Regina, SK

GGAC RVC

Jeff Hurd
Anchorage, AK

Nominating Committee Member

Eileen Jensen
Portland, OR

Regional Historian

Doug LeCren
Anchorage, AK

Student Activities

Michael Nafzgar
Spokane, WA

Membership Promotion RVC

Bruce Dobbs
Portland, OR

Nominating Committee Alternate

Rob Craddock
Regina, SK

YEA Regional Chair

Gregory Jernstrom
Anchorage, AK

ASHRAE Saskatoon 50th Anniversary
Region XI Chapters Regional Conference
May 11-14, 2016
CRC Meetings and Events



All events are at the Sheraton Cavalier Hotel, in Saskatoon, SK, except the Wind-up River Cruise.
Please register and book you hotel room by April 10th, 2016.

Thursday, May 12	Location	Start Time	End Time	Comments
Registration	Hampton's	7:00 AM	6:00 PM	
Breakfast	West Room	7:00 AM	8:00 AM	For Technical Session / Trade Show attendees
Technical Session #1	West Room	8:00 AM	10:00 AM	Separate registration required.
Coffee Break	Conference Foyer	10:00 AM	10:30 AM	
Technical Session #2	West Room	10:30 AM	12:30 PM	Separate registration required.
Trade Show	Conference Foyer	12:00 PM	6:00 PM	All
Technical Session Lunch	South Room	12:30 PM	1:30 PM	For Technical Session / Trade Show attendees
Technical Session #3	West Room	1:30 PM	3:30 PM	Separate registration required.
Orientation	Centre Room	4:00 PM	5:00 PM	All
Caucus Session #1	Centre Room	5:00 PM	6:30 PM	Delegates / Alternates / Nominating Only
YEA Event	Canadian Room	5:00 PM	6:30 PM	YEA members, Society and Regional Officers
Welcome Party	South-West Room	7:00 PM	9:00 PM	All
Hospitality Suite	Starlight	9:00 PM	12:00 AM	Sponsored event

Friday, May 13	Location	Start Time	End Time	Comments
Breakfast	East Room	6:30 AM	8:30 AM	
Regional Exec Meeting	East Room	6:00 AM	8:00 AM	At separated area of breakfast
Caucus Session #2	Centre	6:00 AM	8:00 AM	Delegates / Alternates / Nominating Only
Registration	Hampton's	8:00 AM	4:00 PM	
Business Meeting	Centre	8:00 AM	11:30 AM	All
Coffee Break	Conference Foyer	9:30 AM	10:30 AM	
President's Luncheon	East Room	11:45 AM	1:30 PM	All
Government Activities	Centre Room	2:00 PM	5:00 PM	
CTTC	East Room	2:00 PM	5:00 PM	
Membership Promotion	Canadian	2:00 PM	4:00 PM	
Research Promotion	Cavalier	2:00 PM	4:00 PM	Incoming Presidents / RP chairs, open to all.
Student Activities	Starlight	2:00 PM	4:00 PM	
Chapter History	Cavalier	4:00 PM	6:00 PM	
Chapter YEA	Starlight	4:00 PM	6:00 PM	
Awards Dinner	Top of the Inn	6:30 PM	10:00 PM	All, dinner 7:00, Awards Presentations
Hospitality Suite	Starlight	9:00 PM	12:00 PM	Sponsored event

Saturday, May 14	Location	Start Time	End Time	Comments
Breakfast	East Room	7:00 AM	8:30 AM	
Registration	Hampton's	8:00 AM	4:30 PM	
Caucus Session #3	Centre	7:00 AM	8:30 AM	Delegates / Alternates / Nominating Only, if required.
Chapter Operations	Centre	9:00 AM	Noon	All
Luncheon	East Room	Noon	1:15 PM	All
Business Meeting	Centre	1:30 PM	4:30 PM	All
CRC Wrap Up	Centre	4:30 PM	5:30 PM	CRC committee, Society / Regional officers
Bus to Wind-up Cruise	Front Lobby	5:45 PM	6:00 PM	
Wind-up River Cruise	Off Site	6:00 PM	8:30 PM	Prairie Lily River Cruise - Separate Registration
Hospitality Suite	Starlight	9:00 PM	12:00 PM	Sponsored event

NOTES:

Depending on arrival and departure flight times of groups of guests, a bus will be arranged to / from the Sheraton.
Please inform Ryan of your flight times. There may be opportunity to get together on Wednesday night (at your own cost).
Golf, shopping, or other local excursions can be arranged for those interested, at your own cost (including Sunday).
Companion registration available, includes all meals (except wind-up cruise). Tours around Saskatoon will also be arranged.

See you soon!

Ryan MacGillivray
ASHRAE Saskatoon
CRC General Chair
ryan.macgillivray@dwel.com

ASHRAE Technical Session Speakers – May 12th, 2016.

ASHRAE Members: \$300; With CRC registration: \$450; Students: \$150; Non-member: \$400

Tim Wentz, PE, HBDP

ASHRAE President-Elect

Associate Professor of Construction Management

University of Nebraska – Lincoln



The Interface between Risk and Ethics

The topic of ethics has always been difficult to address because ethics itself is often seen as fluid; it depends on the person, the culture or the situation thereby making it difficult to measure or predict. Risk has many of the same attributes in that it can also be very fluid and difficult to measure or predict.

The presentation looks at the relationship between risk and ethics while exploring some ways at placing risk and ethics into a common context where they can be viewed together and likely outcomes measured or predicted.

Charles E. Gulledge, III, PE, HBDP, LEED AP

ASHRAE Vice-President

AC Corporation

Greensboro, North Carolina



Integrated Building Design

GBCI Approved | 1.5 CE Hours | 0090010495

AIA Approved | 1.5 LU/HSW | GULLEDGE01

The quest of successfully providing a truly integrated building design (IBD) continues to challenge our industry and the built world. This program looks at these challenges, identifies barriers to success, and explores solutions to promote and achieve holistic IBD. Content covers the following topics:

- What is IBD?
- Project delivery techniques
- Design team structures
- Design discipline cross-links and coordination
- Hidden barriers
- How do we make IBD work?

M. Dennis Knight, PE, BEMP

ASHRAE Director-At-Large

Whole Building Systems

Mt. Pleasant, South Carolina



Integrated Building Design and Building Information Modeling

GBCI Approved | 1 CE Hour | 0920004589

AIA Approved | 1 LU|HSW| KNIGHT01

This presentation focuses on the Integrated Building Design and Project Delivery processes including team building, project management, stakeholder responsibilities, early collaboration, better decision making, documentation methods and the use of technologies like BIM to improve the built environment. The presentation provides an overview of ASHRAE Applications Chapter 57 and how to apply its recommendations to help design, construct, operate and maintain better buildings.

Tim Wentz, PE, HBDP

Professor Wentz graduated from the University of Nebraska with a BS degree in Mechanical Engineering and a Master's degree in Business Administration. He then went on to work in the family mechanical contracting firm. He spent 19 years in the industry, before entering academia. Wentz has received numerous awards for his teaching and service to the HVAC industry including the Distinguished Service Award, MCAA's highest award and he is the current President-Elect of ASHRAE.

Charles E. Gulledge, III, PE, HBDP, LEED AP

Charles E. Gulledge III, PE, HBDP, LEED AP is a current ASHRAE Vice President, serving on the Executive Committee and the Board of Directors. He is a former ASHRAE Director-at-Large. Gulledge has served as past Chair of the ASHRAE 2011 Energy Modeling Conference, Chapter Technology Transfer Committee, and Technical Committee 7.1: Integrated Building Design. He has served as member of the Handbook Committee, CTTC-RVC for Region IV, President of the North Piedmont Chapter, and as the ASHRAE Liaison to the Construction Specifications Institute (CSI). Gulledge has received the Distinguished Service Award, Regional Award of Merit, Chapter Service Award, and the Dan Mills Technical Award.

In his role as the liaison to CSI, Mr. Gulledge was intimately involved in the overhaul of the MasterFormat 2004 (MF04) specification organization structure. He remains a MasterFormat Accredited Instructor for CSI.

Mr. Gulledge has presented multiple presentations on the Integrated Design Topic as an ASHRAE Distinguished Lecturer and an ASHRAE Learning Institute (ALI) Instructor. He has provided outsourced ALI instruction to organizations such as the New York City Transit Authority and NAVFAC. Additionally, he participated as a speaker for the ASHRAE Satellite Broadcast on Integrated Building Design.

Mr. Gulledge is a Senior Mechanical Engineer with the design/build firm of AC Corporation in Greensboro, NC. He has over 31 years of experience in the HVAC industry. A licensed professional engineer in the states of North Carolina, Georgia, Kentucky, South Carolina, Virginia, and Alabama; he received his B.S. in Mechanical Engineering from North Carolina State University.

M. Dennis Knight, PE, BEMP

M. Dennis Knight has 40 years of experience providing engineering, design and construction related services within the building industry. Active at the local, state and national levels with various agencies and professional societies, he works to help develop sustainable, integrated building design guidelines. Nationally, as a member of ASHRAE, Mr. Knight is the Chairman of the BIM Multi-disciplinary Task Group (MTG), is the former Chair of Technical Committee (TC) 7.1 "Integrated Building Design," serves on ASHRAE Standards Committee and serves as the Chair of the ASHRAE/IBPSA-USA 2014 Building Simulation Specialty Conference. He has also served as the President of the Charleston Chapter twice since he joined the Society in 1979. Mr. Knight was recently elevated to the membership grade of ASHRAE Fellow at the ASHRAE 2014 Winter Meeting in New York City. Mr. Knight founded Whole

Buildings Systems, LLC, in 2010 after having owned both an engineering firm and a construction company, and most recently serving as a Principal at Liollo Architecture. Whole Building Systems' practice focuses on commissioning, building performance simulation, energy management, BIM applications, and operations and maintenance management and planning. Mr. Knight holds an assortment of professional registrations and accreditations. He is a Registered Professional Engineer in South Carolina, North Carolina, and Wisconsin and holds dual registration in South Carolina as both a Mechanical Engineer and a Fire Protection Engineer. He is a LEED Accredited Professional, a Construction Specification Institute (CSI) certified Constructional Specification Specialist, a American Commissioning Group (ACG) certified Commissioning Authority and Building Performance Institute (BPI) certified as both a Building Energy Analyst and a Building Envelope Professional.