



February 2020

Pile of Bones

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President's Message

By Pierre Ranger

Hi everyone,

I hope you've had a good start to 2020. As the ASHRAE Winter Conference is upon us, we are now at roughly half way through the ASHRAE year, I'd like to thank you all for supporting the chapter and ASHRAE as a society. ASHRAE is about the built environment and we sometimes forget that those buildings are for the use of people. This leads me to say that if you care about the people in buildings, you'll like our speaker for February. I read through Cailin's information and I am looking very forward to Dr. Taylor's presentation.

Lastly, if you are interested in helping out with the board or getting more involve with ASHRAE, we have lots of volunteering opportunities available so please contact any board member if you'd like to help out even if just a little bit.

-Pierre Ranger

Wednesday, February 12, 2020

ASHRAE Regina Chapter Meeting
Topic: Putting People First: Managing
the Indoor Environment for Human
Health (Dr. Stephanie Taylor)
Meeting Location: Atlas Hotel
4177 Albert Street

5:00 – Drinks

5:30 – Dinner

6:00 – Chapter Meeting

Upcoming Events

Mar 2020 – Brandt Centre Ice Tour &
Pats Game

Committee Chair Reports

Vice President

By Cailin MacPherson

This month we are excited to bring in ASHRAE DL Dr. Stephanie Taylor. Dr Taylor presentation is “Putting people first: managing the indoor environment for human health” – with her credentials it is sure to be a good one.

Unfortunately we were not able to secure a presidential visit in February. We are now hoping to get a visit in April or May – stay tuned.

All the best,

Cailin MacPherson
Programs, CTTC, Vice President, Alternate

Student Activities

By Marla Torwalt

Don Bell Scholarship

There’s still time to apply for the Don Bell Scholarship! You can find the application on the ASHRAE Regina website under Student Activities or you can contact me at m.torwalt@mac-eng.ca for a copy. This scholarship was set up in Don Bell’s name by the Regina Chapter of ASHRAE. It is intended to provide financial aid to students pursuing a career in the Engineering or HVAC industry. The scholarship will be awarded to one applicant in the amount of \$1500 USD. The application deadline is February 14, 2020 and the scholarship will be awarded on March 20, 2020.

ASHRAE Releases Smart Grid Application Guide: Integrating Facilities with the Electric Grid

ASHRAE announced the release of its *Smart Grid Application Guide: Integrating Facilities with the Electric Grid*.

Created as part of 2018-19 ASHRAE President Sheila J. Hayter's presidential initiative, the *Smart Grid Application Guide* provides building owners, managers and designers with guidance on the smart grid, applicable smart grid standards and regulations, as well as the design and operation of systems in this emerging industry.

"Harnessing the opportunities smart grid systems provide for creating more flexible and dynamic building systems is an integral part of our new energy future," said Hayter. "This guide was specifically designed to help building professionals navigate the steps needed to prepare a building for the smart grid."

Both the Smart Electric Power Alliance (SEPA) and the OpenADR Alliance were heavily involved in working with ASHRAE on the development of the guide.

"The transformation to a smart grid has already begun," said Steven Bushby, Fellow ASHRAE, chair of the guide's ad hoc committee and leader of the Mechanical Systems and Controls Group of the Energy and Environment Division of NIST's Engineering Laboratory. "The *Smart Grid Application Guide* is a resource to help building professionals understand what is happening during this transformation and the opportunities they can take advantage of now and in the future."

The guide details the concrete steps needed to prepare a building – whether new construction or renovation – for integration with the smart grid. It covers wide variety of topics, including:

- Navigating regulatory environments that affect deployment of the smart grid
- Strategies to accrue benefits
- Utility bill savings and potential revenue streams
- Behind-the-meter distributed energy resources
- Demand-side management
- Customer aggregation for demand response
- Considerations for single- and multiple facility design and operations
- Microgrids
- Meeting building needs during interruptions to grid services
- Constraints on deployment options

The *Smart Grid Application Guide* will be available for purchase at the 2020 ASHRAE Winter Conference being held Feb. 1–5, at the Hilton Orlando in Orlando, Fla. It can also be purchased online at www.ashrae.org/bookstore or by contacting the ASHRAE Customer Contact Center at 1-800-527-4723 (United States and Canada), 404-636-8400 (worldwide) or fax 678-539-2129.

2019-2020 Meetings and Events

February 12, 2020 - Dinner
Topic: Managing the Indoor
Environment for Human Health
Speaker: Dr. Stephanie Taylor
Location: 4177 Albert St (Atlas Hotel)

March 2020
Brandt Centre Ice Plant Tour & Pats
Game
Date & Time TBD

Other Chapter Meetings will be
announced in future newsletters

February 1 – 5, 2020
ASHRAE Winter Conference
Location: Orlando, Florida

June 27 – July 1, 2020
ASHRAE Annual Conference
Location: Austin, Texas

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pierre-andre.ranger@jci.com

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j.thomas@cypresssales.com

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natasha.skea@wspgroup.com

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bob@rjengland.com

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cklatt@hdaeng.com

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carla.drager@jci.com

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RJ England Consulting Ltd.
chris@rjengland.com

Diversity in ASHRAE Chair

Henry Reynoso
Refrigerative Supply
henryr@rsl.ca

Student Activities

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

Newsletter

Dave Thomas
d87thomas@gmail.com

Treasurer

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

Contact us at:

ashraeregina@gmail.com

Visit us at:

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

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**CENTER FOR
PRIMARY CARE**
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January 28, 2020

Regina ASHRAE DL on February 12, 2020

Bio:

Stephanie Taylor, MD, graduated from Harvard Medical School in Boston, Massachusetts and practiced pediatric oncology and did research in cellular growth mechanisms for several decades.

Alarmed by the high number of patients acquiring infections during their in-patient treatment, she became convinced that the hospital building had a role in patient outcomes. Realizing that she knew little about the design and management of buildings and mechanical systems, she returned to school to obtain a Master's degree in Architecture.

Dr. Taylor now works as an international consultant and research leader in understanding the how the indoor environment affects occupant health. Her approach is to use health data of building occupants to identify how indoor air quality, surface materials and building construction support or harm human health. She has published in Nature, Science and other peer reviewed journals, is a Distinguished Lecturer for ASHRAE, and a regular contributor to Engineered Systems magazine.

When not doing the work she loves, she spends her time in Stowe, Vermont with seven dogs and a non-dog-guy husband. Among other sports, she loves to climb trees, skydive and roof climb with her son who is also a physician.

Presentation title:

“Putting people first: managing the indoor environment for human health”

Presentation summary:

Despite remarkable advances in medicine, human beings are struggling against worsening infections, allergies and rising rates of inflammatory diseases. Are we simply becoming weaker creatures or, we are missing something very important – some force or factor that is increasing our vulnerability to disease?

Thankfully, new medical and building assessment tools now allow us to answer this important question. Studies using these new tools are revealing remarkable data on the importance of the indoor environment in supporting or harming the health of occupants.

Dr. Taylor will share new findings on the relationships between indoor-air parameters and occupant health. For those unsure of the “return-on-investment” for building first-costs to support occupant health, financial data will be presented.

Understanding the powerful influence of the indoor environment on human health is not just theoretically interesting; it has become an urgent topic for all of us. Get ready to be totally amazed by the power of the building, and learn actionable steps to improve your own health, productivity and learning.