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ASHRAE
NB PEI CHAPTER



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Our next Chapter meeting is scheduled for March 10 at Sirocco Restaurant (40 Weldon St, Moncton, NB). The March meeting will be our **History Night**. The Board of Governors meeting begins at 4PM. A social hour follows at 5PM, with the meeting presentation at 6PM. Dinner follows the meeting presentation at about 7PM. The cost of the meeting and supper is \$25.

Executive Meeting Notice

A reminder to the Executive, Board of Governors, and the Committee Chairpersons that the executive meeting will start at 4:00 PM at Sirocco.

March Meeting Topic

Fan System Effects: What are system effects? How do they affect system design and fan selection? How can we mitigate system effects?

Speaker Bio

Grant Wolters graduated from the University of Minnesota with a degree in Mechanical Engineering. He had worked with Twin City Fan and Blower as a Commercial Sales Application Engineer since 2012.

February Meeting Summary



Approximately 30 members attended the February Chapter meeting on February 10 at Sirocco Restaurant. Brad Matheson, Commercial Sales Manager for Atlantic Canada with Enertrak, provided an hour-long presentation on Dedicated Outdoor Air Systems. The presentation sparked a lively discussion on the various forms of dedicated outdoor air systems, the applicability of American-designed codes in Canada's cold climate, and the best situations for each given form of energy recovery.

Anthony Jonkov, the Region II Regional Vice-Chair (RVC) for Research Promotion also provided a short presentation on ASHRAE's research program. Our chapter has shown to be above-average with regards to research fundraising.

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New ASHRAE Online Course on Commissioning

With the commissioning process becoming widely recognized as being critical to the success of high-performance buildings ASHRAE has added a new Learning Institute course focused on requirements in its first commissioning standard. Taught by Walter Grondzik, P.E., the course, "Commissioning Process and Standard 202" is being held March 25, 2015. It is one of 12 Spring Online courses being offered by ASHRAE.

In 2005, ASHRAE Guideline 0, *The Commissioning Process*, addressed the commissioning process when it was a voluntary element of the building acquisition process. With the incorporation of mandatory commissioning requirements in standards, Such as ASHRAE/IES/USGBC Standard 189.1, *Standard for the Design of High Performance Green Buildings*, it was determined that a code-language description of the commissioning process was needed. That gap was filled with publication of ANSI/ASHRAE/IES Standard 202-2013, *Commissioning Process for Buildings and Systems*, which provides information on minimum acceptable commissioning process practices.

"The course reviews the commissioning requirements embodied in Standard 202 and links them to Guideline 0 and other technical support documents," Grondzik said. "We will provide an understanding of the commissioning process as described by Standard 202, explain how and why the Standard 202 commissioning process differs from that in Guideline 0, and explore how compliance with the standard is likely to evolve."

For registration costs and to register, visit www.ashrae.org/onlinecourses.

Other Half-day short courses are:

- Fundamentals & Applications of Standard 55-2013 (IAQ Practices), March 9
- Troubleshooting Humidity Control Problems (IAQ Practices), March 11
- Advanced High-Performance Building Design (ES Practices), March 23
- New! Commissioning Process and Standard 202, March 25
- IT Equipment Design Evolution and Data Center Operation Optimization, March 30
- Complying with Standard 90.1-2013: HVAC/Mechanical (ES Practices), April 8
- Fundamental Requirements of Standard 62.1-2013 (IAQ Practices), April 13
- NEW! Understanding Standard 189.1-2014 for High-Performance Green Buildings (ES Practices), April 20
- Complying with Standard 90.1-2013: Envelope/Lighting (ES Practices), May 4
- Exceeding Standard 90.1-2013 to Meet LEED Requirements (ES Practices), May 13

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ASHRAE Publishes Revised Geothermal Guide

When ASHRAE's original book on ground source heat pumps was published 17 years ago, such systems were used mainly in residential settings and designers who used them were seen as risk takers. Today, the technology is much more widely used having been recognized for its benefits. The lessons learned during that time are incorporated in a newly published book from ASHRAE, "Geothermal Heating and Cooling: Design of Ground-Source Heat Pump Systems (GSHP)." The publication is a complete revision of "Ground-Source Heat Pumps: Design of Geothermal Systems for commercial and Institutional Buildings," published in 1997 and recognized as the primary reference for non-residential GSHP installations.

The new book was written by Steve Kavanaugh, professor emeritus at the University of Alabama, and Kevin Rafferty, a consulting engineer, Klamath Falls, Ore. Both have spent the last 25 years focused on geothermal/GSHP work.

The book provides benchmarks, design strategies and information necessary for engineers to configure the most efficient and cost effective systems and avoid problems such as inefficient pumping, high cost ground loop designs, inadequate outside air provisions, unnecessarily complex control schemes and other common design errors.

In addition to cost and performance data, Kavanaugh provides building owners and their architects the information necessary to ask the right questions and accurately evaluate potential engineering consultants. The net effect is a more cost effective and efficient design and satisfied building owners.

As part of the revision, seven of the original eight chapters and appendices were completely rewritten and now include coverage of close-loop ground (ground-coupled), groundwater, surface water, GSHP equipment and GSHP piping. Additional information on site characterization has been added including a new hydro-geological chapter. The final chapter was replaced and the new section contains results of recent field studies, energy and demand characteristics and updated information to optimize GSHP system cost.

The cost of "Geothermal Heating and Cooling: Design of Ground-Source Heat Pump Systems" is \$128 (\$109, ASHRAE members).

To order, contact ASHRAE Customer Contact Center at 1-800-527-4723 (United States and Canada) or 404-636-8400 (worldwide), fax 678-539-2129, or visit www.ashrae.org/bookstore.

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ASHRAE WEBCAST

APRIL 23, 2015
2:00 – 5:00 PM

The NB/PEI Chapter is offering this webcast to all of its members as well of non-members at locations outside their own offices. We have also extended invitations to various levels of government, BOMA, and some local universities and colleges. Please RSVP to kclannon@master.ca, indicating which city to plan on attending so we can ensure there will be enough refreshments.

The following venues are confirmed:

Saint John
NBCC Saint John Campus
950 Grandview Ave
Saint John, NB
E-Building Room E2001

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284 Smythe Street
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NB/PEI 2014-15 CHAPTER EVENTS CALENDER

- March 10** Fan Efficiency Grades
History Night
- April 14** Techniques for Energy Conservation –
Home, Office, and Refrigerated Facilities
Distinguished Lecturer and Presidential Member, Ron Vallort
Refrigeration Night / Research Promotion Night
- April 23** ASHRAE Webcast:
Retro-Commissioning and the Life Cycle Cost
Analysis
- May 12** BOMA and ASHRAE Joint Meeting
Grassroots Government Activities Night
- June 9** TBD: Final meeting of the year

Meetings are normally on the 2nd Tuesdays of the month. If you have any suggestions or comments about the meeting topics or speakers, please contact our CTTC Chair, Kevin Clannon at kclannon@master.ca


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