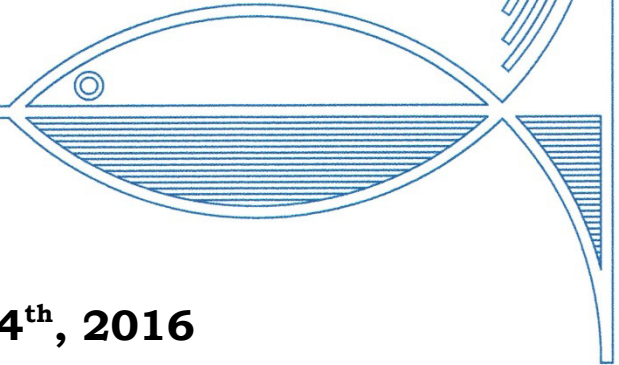




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## ASHRAE

### NB PEI CHAPTER



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#### **April 2016 Issue**

## **Next Meeting Thursday April 14<sup>th</sup>, 2016**

### **Location: Five Bridges Bar & Grill**

**121 Pine Glen Rd, Riverview, NB E1B 1V5**

### **Executive Meeting Notice**

#### **Next Meeting Thursday April 14<sup>th</sup>, 2016**

All members of the Board of Governors, Committee Chairpersons and the Executive are reminded that the executive meeting begins at 4:00 PM at the Five Bridges Bar & Grill.

### **April 14<sup>th</sup> Meeting Agenda**

4:00 pm – Board of Governors Meeting (all are welcome)

5:00 pm – Attitude Adjustment Hour

6:00 pm – Presentation: **The ASHRAE Building Energy Labeling Program** presented by Distinguished Lecturer:  
**WILLIAM P. BAHNFLETH, PH.D., P.E.**

7:00 pm – Dinner: Ribs! (Members \$25)

Whether voluntary or mandatory, the rating of the energy use and indoor environmental quality of buildings is a growing trend worldwide. In 2009, ASHRAE introduced its own "**Building Energy Quotient**" (bEQ) labeling program for new and existing buildings and is now in the process of implementing it. It is a comprehensive and rigorous program comprising not only an energy use performance scale, but also tools and procedures for performing ratings and certifications for the qualified energy modelers and building assessors who will use them. This presentation provides an overview of the bEQ program, compares it to other building certification programs, identifies the benefits of certification, and summarize the current status of the bEQ program and plans for the future.

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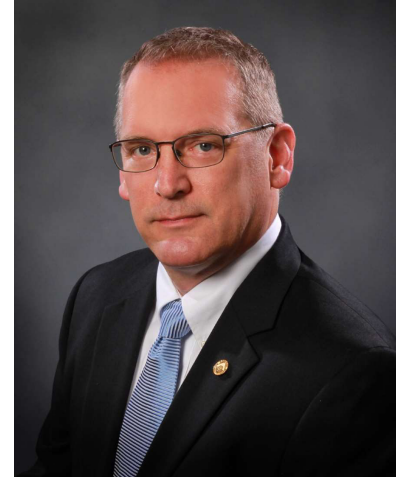
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## WILLIAM P. BAHNFLETH, PH.D., P.E.

William Bahnfleth is Professor and Director of the Indoor Environment Center in the Department of Architectural Engineering at the Pennsylvania State University (Penn State) in University Park, PA, where he has been employed since 1994.

Previously, he was a Senior Consultant for ZBA, Inc. in Cincinnati, OH and a Principal Investigator at the U.S. Army Construction Engineering Research Laboratory in Champaign, IL. He holds BS, MS, and PhD degrees in Mechanical Engineering from the University of Illinois, where



he also earned an undergraduate degree in music (pipe organ performance), and is a registered professional engineer.

At Penn State, Dr. Bahnfleth teaches undergraduate courses in HVAC fundamentals and controls and graduate courses in chilled water systems, hot water and steam systems, and indoor air quality. His research interests cover a wide variety of indoor environmental control topics, including chilled water pumping systems, stratified thermal energy storage, protection of building occupants from indoor bioaerosol releases, ultraviolet germicidal irradiation systems, and others. He is the author or co-author of more than 150 technical papers and 13 books and book chapters. He consults on the design of chilled water thermal energy storage systems and has been involved in more than 20 projects world-wide.

Dr. Bahnfleth is a fellow of both ASHRAE and the American Society of Mechanical Engineers (ASME) and is also a member of the International Society for Indoor Air Quality and Climate (ISIAQ), the International Building Performance Simulation Association (IBPSA), Sigma Xi, the American Society for Engineering Education (ASEE), and the Society of Building Science Educators (SBSE). He has served ASHRAE in a variety of capacities, including Student Branch Advisor, Chapter Governor, Technical Committee and Standing Committee Chair, and as Director-at-Large, Vice President, Treasurer, and 2013-14 Society President. He is the recipient of a 1st place ASHRAE Technology Award, Transactions Paper Award, and Distinguished Service and Exceptional Service Awards.

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## NBCC Moncton Student Chapter 'Tours the Tunnels'

The student chapter of NBCC Moncton arranged the tour, filled out the forms and took lots of pictures. The host was **Perry Eldridge** of Mount Allison University Technical Services. Perry is an Alumni of NBCC Moncton who has an encyclopedic memory of all things Building Systems.

The tour started at the campus map mural, following on to a main control screen, then to the boiler plant and the tunnels. We also toured the ultramodern fine arts building and the pool service area. The tour showed the students how much effort was needed behind the scenes to operate a 47 building campus. **Thank You Perry!**

John G. Willden, P.Eng, MBA  
Instructor – Building Systems, NBCC Moncton  
Chair ASHRAE Student Activities





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## YEA and Student Members Social Activity: Resurgo Place Tour (All members are welcome to join!)

Free guided social tour of the Moncton Museum and Transportation Discovery Centre compliments of ASHRAE NB/PEI Chapter.

### Attendees (left to right):

Maryse (tour guide), Daniel El-Khoury (YEA Chair),  
Jordan Mckinley (NBCC), Zach Spike (NBCC),  
Nick Vienneau (NBCC)



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# GRIMROSS

## Technical Tour of Grimross Brewing Co.

"Fifteen ASHRAE members and associates met in Fredericton, NB on March 9th for a technical tour of the Grimross Brewery. Grimross is a craft brewery founded in 2013. The brewery opened a new production facility in Fredericton in 2015. Brewer Martin Henderson opened the doors of the brewery production facility, and explained the beer-making process from sacks of malt and hops to samples of the finished product. Mr. Henderson focused the tour on the production process and pointed out the specific plant components of interest to mechanical engineers. The evening concluded with a meal and a social hour with plenty of opportunity to continue sampling the finished Grimross product."

Our chapter was well represented by these svelte gents: Rob Haodley, Zack Spike, Ben Rondell, Denis Melanson, Kevin Watson, Trevor Mason, Andy Brown, John White, Daron Thomas, A second guest from Thomas Industrial Sales, Barry Marchand, Pat Deluca, James Handrahan & Jarret Steele

Grimross Brewer Martin Henderson explains the brewing procedure







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## YEA Leadership Weekend

**The ASHRAE NB-PEI Chapter will be proudly represented at the Spring 2016 YEA Leadership Weekend in Austin, Texas, February 19-21, 2016 by:**

**Daniel El-Khoury & Shelby Gallant**

YEA Leadership Weekend is an opportunity for you—the future leaders of ASHRAE—to learn more about Society, develop soft skills and network with other young professionals. Over 450 YEA members have already taken advantage of this great opportunity...will you be next?

This event will include segments on understanding your own personality as well as other types, leadership development for young professionals, communication techniques and ASHRAE leadership opportunities.



Hear what some previous YEA Leadership Weekend attendees gained from their experience:

*"The training I gained from YEA Leadership Weekend has been valuable in learning how to deal with different types of personality types. In addition, I have been able to plan new successful YEA events for my chapter through the ideas that I learned from other YEA members who attended this event."*

*"Learning about ASHRAE at YEA Leadership Weekend has helped me move up within my Chapter and encouraged me to attend TC meetings at ASHRAE Conferences. In the office, the leadership portions of the weekend helped me take on more active roles dealing with clients and assisting co-workers."*

*"By attending YEA Leadership Weekend, I was able to understand my personality profile, which has allowed me to work better in various work group situations and I am more understanding of other people."*



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## HVAC Design: Level I – Essentials

**Halifax HVAC Design Training May 9 - 11, 2016**

**Location: Dalhousie University Halifax, Nova Scotia**

ASHRAE's HVAC Design: Level I - Essentials training provides participants with instruction that accelerates their transformation into effective members of a design, construction or facilities maintenance team. Developed by industry-leading professionals selected by ASHRAE, the training provides attendees with the fundamentals and technical aspects of HVAC design. Attendees will gain practical skills and knowledge to design and maintain HVAC systems that can be put to immediate use.

In addition to gaining in-depth knowledge and understanding, attendees will receive real-world examples of HVAC systems based on the renovated ASHRAE Headquarters building. The training also teaches a systematic approach to guide a design team to a solution that optimally meets the client's expectations. Engineered drawings of the ASHRAE Headquarters renovation will also be discussed so participants are exposed to plan reading and visual understanding of system design.

### Who Should Attend

- Engineers new to the HVAC industry, including recent engineering graduates lacking practical experience
- Facilities managers involved in new construction or major renovation projects
- Technicians who would like to gain design knowledge
- Architects who want to understand HVAC system design
- Sales engineers and HVAC equipment suppliers who want to gain a broad knowledge of HVAC systems

Attendees of HVAC Design: Level I will earn up to 18 Professional Development Hours.

**Bonus – Free Copy of ASHRAE Green Buildings Standard and User's Manual**

Attendees each receive a free copy of ASHRAE Standard 189.1-2014 for the Design of High Performance Green Buildings and the 189.1 User's Manual – a value of over \$200.

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## HVAC Design: Level I – Essentials

### How Your Firm Will Benefit

The training helps attendees understand:

- The need to improve overall building performance
- The technologies that lead to improved building performance
- The economics of sustainable buildings and the roles of the designer and facilities manager
- The basic skills needed to design high-performance buildings
- The skill set that will be required by designers of the future
- Techniques to interact effectively with all design partners (architects, owners, other engineering disciplines) in an integrated design team
- The capacity to participate in the design of high-performance buildings

<https://www.ashrae.org/education--certification/hvac-design-training/halifax-hvac-design-training-may-2016>

Fee Covers: Course admittance, course materials, publications, break refreshments, lunches, and reception. (Register 30 days prior to training date, for Early Bird pricing)

Company Discount Fee: Enroll 3 or more participants from the same company at the same time and save.

### Cancellation Policy

Transfer, Cancellation and Refund Policy: If you cannot attend, notify ASHRAE Learning Institute prior to 14 days before the training, and ASHRAE will refund your fee, minus a \$25 administrative charge. Because this training has limited enrollment, refunds will not be made for cancellations received after that date or for non-attendance. You may enroll a substitute at any time before the training starts by contacting Karen Murray by phone 678-539-1146 or email. [kmurray@ashrae.org](mailto:kmurray@ashrae.org)





## ASHRAE NB/PEI Crested Polo Shirts for Sale

We now have a supply of men's navy blue polo shirts with our ASHRAE chapter logo embroidered on the left chest (see photo). These shirts are 100% polyester with moisture wicking properties and are anti-microbial.

They are available from Dwight Scott for \$20 (cash please) in M, L, XL and 2XL sizes. Sharlene Innes will be coordinating shirt orders for women's shirts.



## 2015-2016 Schedule

**April 14:** ASHRAE Distinguished Lecturer  
**WILLIAM P. BAHNFLETH, PH.D., P.E.** presenting:  
The ASHRAE Building Energy Labeling Program

**April 21:** ASHRAE Webcast - Realistic Commercial Net Zero Building Design through Energy Conservation and Renewables - NBCC Fredericton and Moncton

**May 18-19:** MEET Show in Moncton, NB  
**We need volunteers for the ASHRAE booth!**

**June 14:** TBA Social

**June 25-29:** 2016 ASHRAE Annual Conference in St Louis, MO

**August 26-28:** 2016 ASHRAE Region II Chapter Regional Conference in Moncton, NB (Volunteers Needed!)



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## The LeaDRS Program

Interested in getting more involved with AHSRAE, getting great mentorship, experience and a free trip to **St Louis in June 2016?**

Have a look at the link below regarding the leadRS program. It's a great opportunity for anybody looking to contribute to ASHRAE as the selected member will shadow the DRC (Director and Region Chair) during the ASHRAE annual conference.

"The goal of the LeaDRS program is to help the development of future Regional leaders through their shadowing of current DRCs and support from the Region. LeadDRS is a program that is run, funded, and administered by each Region in order to develop incoming or new Regional leadership. As a participant in this program, the DRC would select a participant from the Region to shadow the DRC at a Society Winter or Annual conference. The participant's travel expense would be covered by the Region as an investment in the development of their future leadership. While not specifically required, it is the intention of this program to prepare new YEA members their upcoming duties and expectations as a Regional leader through direct interaction with the DRC."

<http://region2.ashraeregions.org/other.html>

**Application deadline is March 4, 2016**



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