

President's Report

The Executive

President
[Robyn Ellis](#)

President-Elect
[Mitchell Rohrer](#)

Administrator
[Stan Holko](#)

Treasurer
[Aaron Besseling](#)

Committee Chairs

Government Affairs
[Mustafa Morsy](#)

Student Activities
[Mark Long](#)
[John Molnar](#)

Young Engineers in
ASHRAE
[Marco Ciallella](#)

Chapter Technology
Transfer Committee
[Mitchell Rohrer](#)

Membership Promotion
[Reaz Usmanali](#)

Research Promotion
[Iain Hill](#)

Historian
[David Rasmussen](#)

Welcome everyone to our 2020-2021 Society Year! I hope this newsletter finds you well.

Thank you to those who participated in our September webinar with Distinguished Lecturer Eric Binder regarding HVAC Building Pressurization Systems. This marks the third year in a row that we have started our program with an ASHRAE Distinguished Lecturer. I appreciate the insights Eric provided on the critical importance of pressurization in many different example applications, as well as design considerations for safety.

Coming up shortly on Tuesday, October 6, our Hamilton Chapter can look forward to hearing from another Distinguished Lecturer, William Bahnfleth. The webinar is titled, "[Thermal Energy Storage in the Era of Sustainability.](#)" I hope you will join us for it!

At the start of this new ASHRAE program year we continue to experience a global pandemic. I wanted to take a moment to acknowledge a sample of the technical strengths that ASHRAE offers us during these unusual times:

- [Covid-19 Resources & Best Practices](#), compiled by ASHRAE Society's Pandemic task force regarding buildings, reopening, filtration and disinfection, transportation, etc.
- Checklists for reopening schools [here](#) and [here](#).
- [ASHRAE Position Document on Infectious Aerosols](#)

Additionally, ASHRAE continues to connect us with:

- Virtual conferences & journal papers
- Virtual training
- Standards & guidelines
- Peer networks and subject matter experts globally

Newsletter Editor
[Christopher Hofland](#)

Webmaster
[Jeremy Stockmans](#)

Special Events
[David Rasmussen](#)

Chapter Honours and Awards
[George Menzies](#)

Volunteers

[Frank Mesicek](#)

[George Menzies](#)

A big thank you to our team of volunteers, as well as thank you to our membership for your participation in ASHRAE. If any of our members have an interest in volunteering on one of our committees, I encourage you to reach out to myself or our team. ASHRAE thrives on volunteerism and participation!

Robyn Ellis
Hamilton Chapter President 2020-2022

Advertise With ASHRAE!

Would you like to advertise in the ASHRAE Hamilton *Airways* newsletter?

[Click Here For Details](#)

Golf Tournament Update

I recognize many people were able to get out golfing this past summer (I can attest to that as I work at a golf course). Ontario had achieved Stage 3 of its reopening plan, and golf was one of the few activities where social distancing was still possible. The staff at Legends On The Niagara Golf Course provided excellent ideas, however we would have been the first large group of this size and it would have been devastating if one of our members was infected with the novel coronavirus as a result of participating in our tournament. ASHRAE is seen as a leader in the fight against COVID-19, so we made the tough decision to cancel the tournament for this year in order to protect our members.

We are now securing a date for Wednesday, June 9, 2021 at Whirlpool. Please stay tuned to the *Airways* newsletter for future updates.

David Rasmussen, C.E.T.
Historian and Special Events Chair

What You Missed at the September Meeting

Topic: HVAC Building Pressurization Systems – Lessons Learned
Speaker: Erich Binder, EBCL, *ASHRAE Distinguished Lecturer*

Date: Tuesday September 15, 2020
Where: Webinar

We started our 2020–2021 program with [ASHRAE Distinguished Lecturer](#), Erich Binder. He shared some of his insights relating to his experience in loss prevention/risk

management in industrial HVAC. It was very interesting to hear an industrial perspective and the consequences of improper design or operation at this scale.

Thank you to everyone that attended. All attendees will receive slides and a link to view the presentation again.

Discussion Outline:

1. Pressurization Design Basics & Design Considerations
2. Summer/Winter Operation Air Density and Impact on Air Change Rate vs Air Flow
3. Natural Ventilation
4. Physical Barrier Controls & Airlock Types
5. Purging Units
6. ASHRAE Cold Climate Building Design Guide
7. Real Life Examples & Best Practices
8. Pressurization Testing & Commissioning

October Webinar - Register Now!



Thermal Energy Storage in the Era of Sustainability

William Bahnfleth

ASHRAE Distinguished Lecturer

Tuesday Oct 6th 2020

@ 5:00 pm (Webinar)

REGISTRATION DEADLINE: MONDAY, OCTOBER 5, 2020

A PERSONAL WEBINAR ACCESS LINK WILL BE SENT OUT 24 HOURS PRIOR TO THE EVENT.

Topic:

Thermal Energy Storage in the Era of Sustainability

During the 1980s and 1990s, cool thermal energy storage (TES) was a key technology in US utility demand-side management (DSM) programs. Interest in TES declined steeply as incentives disappeared during utility deregulation. Today, the focus of design has shifted from energy cost savings toward sustainability and it is reasonable to ask whether TES has anything to offer in this environment. This presentation will review the essentials of cool thermal energy storage and examine its relevance to sustainable design. Specific issues examined will include the impact of TES on site and source energy consumption, the economic case for TES without the incentives of the DSM era and the role of TES in achieving net zero energy buildings and communities.

Speaker:

William P. Bahnfleth, Ph.D., P.E.
ASHRAE Distinguished Lecturer

William Bahnfleth is a professor 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 B.S., M.S., and Ph.D. degrees in Mechanical Engineering from the University of Illinois, where he also earned a bachelor of music degree in instrumental performance. He is a registered professional engineer. At Penn State, Dr. Bahnfleth teaches undergraduate courses in HVAC fundamentals, HVAC system design 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 170 technical papers and articles and 14 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 ASHRAE, the American Society of Mechanical Engineers (ASME) and the International Society for Indoor Air Quality and Climate (ISIAQ). 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. His honors include a 1st place ASHRAE Technology Award, Transactions Paper Award, Distinguished Service and Exceptional Service Awards, The Louise and Bill Holladay Distinguished Fellow Award, the E.K. Campbell Award of Merit and the F. Paul Anderson Award. He is also a recipient of the Penn State Engineering Alumni Society's World-Class Engineering Faculty Award.

Agenda:

5:00 p.m. ASHRAE Hamilton Updates

5:00 p.m. Presentation

6:00 p.m. Q&A

6:30 p.m. Close-out

REGISTER NOW!

Please contact Mitchell Rohrer (mitchell.rohrer@jci.com) or Mostafa Mehrtash (mmehrtash@ehpricesales.com) for any questions/suggestions relating to the ASHRAE Hamilton 2020-21 program.

ASHRAE Certifications

Do You Know About ASHRAE Certifications?

ASHRAE certification programs were founded to meet the industry needs of today and provide value to thousands of built-environment professionals, employers and building owners.

For the past 100+ years ASHRAE has worked hard to earn and maintain a worldwide reputation for being the leader in HVAC&R design. ASHRAE certification programs serve to reinforce that reputation.

ASHRAE certification programs:

- Are developed by industry practitioners who understand the knowledge and experience that are expected for superior building design and system operation
- Assure employers and clients of subject mastery
- Serve as a springboard for continued professional development
- Offer an easy-to-apply process
- Allow non-native English speakers additional testing time

Certification programs available include:

CHD

HVAC Design

BCXP

Commissioning

BEAP

Energy Assessment

BEMP

Energy Modeling

HBDP

High-Performance Building Design

HFDP

Healthcare Facility Design

DPMP

Building Operations

[Learn more here.](#)

Mitchell Rohrer
Chapter Technology Transfer Chair

Government Affairs Update



Invitation to Subscribe to Government Affairs Update

Subscribe now to this bi-weekly newsletter to stay connected with the most recent government activities around the world, pertaining to building professionals like you.

[Subscribe Now](#)

You can access the most recent Government Affairs Update from [this page!](#)

Membership Promotion



Interested in becoming a member?
Apply [online](#) or by [mail](#).

Are you a student looking to become an
ASHRAE member?

The Hamilton Chapter is excited to continue its initiative to promote and support students that wish to explore the opportunities ASHRAE can provide. For the 2020/2021 year the Chapter is sponsoring students who sign up to become student members by funding their membership dues for one year.

[Students - Learn more here!](#)

Reaz Usmanali
Membership Promotion Chair

Chapter Notes



ASHRAE's Global HQ is Moving!

Your new ASHRAE Headquarters is nearing completion and we are about to move in! Starting **October 7, 2020**, you can find ASHRAE's global HQ at **180 Technology Parkway, Peachtree Corners, GA 30092**. We hope to see you there in the future!



Combined Savings of 35% off in the ASHRAE Bookstore

Extra 10% off COVID-19 Resources in the ASHRAE Bookstore

As the world continues to face this current COVID-19 pandemic, our goal remains to provide proactive guidance to help address concerns with respect to the operation and maintenance of HVAC&R.

The ASHRAE COVID-19 Preparedness Resources webpage, ashrae.org/COVID19 is continuously being updated with the most relevant [technical resources](#), [information](#) and [guidance](#) on mitigating potential health risks as businesses and schools begin to reopen.

In addition to providing [free read-only access](#), we are also offering an additional 10% off for [Bookstore purchases](#). When combined with your 25% member discount, **that is a total of 35% off list price. Use code SAVENOW.**



Learning Institute

Upcoming ALI Online Courses

ASHRAE Learning Institute (ALI) 2020 Fall Online Instructor-led Course Series provide engineers in consulting practices, facility management and other building professionals

with instruction on applying ASHRAE standards and employing new technologies essential for advanced building performance.

New and updated courses include:

- Health Impacts of Indoor Air Extraction, Ventilation, and Filtration – Same or Different? | Oct. 8
- Fundamentals of Ultraviolet Germicidal Irradiation (UVGI) for Air and Surface Disinfection | Oct 12
- The Commissioning Process and Stakeholder Management | Oct. 13
- Smart Grid Systems, Applications and Integration with the Built Environment | Oct. 14
- Hospital HVAC – Infection Mitigation, Comfort, Performance | Oct. 20
- Laboratory Exhaust Stacks: Safe and Energy Efficient Design | Dec. 3
- Successfully Managing the Risk of Legionellosis Using Standard 188-2018 | Dec. 8
- A Brief Look at IgCC and Standard 189.1 | Oct. 15

The remaining course offerings are as follows:

- Variable Refrigerant Flow System: Design and Applications | Oct. 6
- Humidity Control II: Real-World Problems and Solutions | Oct. 22
- Guideline 36: Best in Class HVAC Control Sequences | Nov. 9
- Advanced Designs for Net Zero Buildings | Nov. 17
- Avoiding IAQ Problems | Dec. 15

Learn more or register today by visiting our [website](#).

Job Board

Is your company looking for its next new hire? Contact Christopher Hofland, Newsletter Editor, at chris.hofland@alumni.utoronto.ca to advertise the posting here in the *Airways* newsletter! Postings are free for chapter members!

A Warm Thank You to Our Sponsors

YOUR BUSINESS CARD HERE!



Art Rebek, P. Eng.,
B. Eng., LEED A.P.
President

1100 S. Service Rd., Ste. #417
Stoney Creek, ON L8E 0C5
T - (905) 643-8530
C - (905) 321-6452
arebek@arcengineering.ca

www.arcengineering.ca



Sheldon Winter, Technical Sales Representative

ONTARIO • Tel.: (519) 744-7295 • smithenergy.com

Volunteerism

We are always looking for more volunteers to help strengthen our chapter.

If you are Interested in getting involved please contact Robyn Ellis at robyn.ellis.eagles@gmail.com.



VISIT OUR WEBSITE