

# NEWSLETTER

## **NOVEMBER MEETING – GAC NIGHT**

**Distinguished Lecture – Darryl Boyce, P.Eng.**

**Presenting: Reducing Carbon Emissions and Achieving  
Enhanced Indoor Environments in a Portfolio of Buildings**



**Date: Tuesday, November 21st, 2023**

**Location: University of Windsor Alumni Hall – McPherson Lounge**

See next page for University of Windsor map highlighting Alumni Hall & Parking

**Time: Doors Open at 5:30 PM, Dinner at 6:00 PM, Speaker at 6:45 PM**

**Registration Deadline: Monday, November 20<sup>th</sup>, 2023**

**Cost: \$55 for ASHRAE Windsor Members, \$65 for Non-Members, \$25 for Students**

**Registration Link: <https://ashraewindsor.simplesignup.ca/en/13312>**

Or contact Syed Hassan at: 519-562-1881, E-mail: [syed.hassan@enbridge.com](mailto:syed.hassan@enbridge.com)

## APPENDIX G

**Legend**

- 🚻 Wheelchair accessible entrance
- ♿ Wheelchair accessible entrance with ramp
- 🚿 Hand Transit pick-up/drop-off area
- ♿ Wheelchair accessible route
- 🚻 Unisex Washroom

**Wheelchair Lab**  
Having an attending registered nurse supervising wheelchair user is mandatory. The City of Windsor fire department requires that all fire department L3s (L300) have a fire department L300. If you are a fire department L300, you must have a fire department L300. If you are a fire department L300, you must have a fire department L300. If you are a fire department L300, you must have a fire department L300.

**Alumni Hall**  
A wheelchair accessible entrance is available on the north building of Alumni Hall. The building is located at the intersection of ...

1	Alumni Hall	CA	CA	CA	CA	CA	CA
2	Agriculture & Food Sciences Centre	CA	CA	CA	CA	CA	CA
3	Administrative Services Building	CA	CA	CA	CA	CA	CA
4	Bioprocess Engineering Centre	CA	CA	CA	CA	CA	CA
5	Business Administration Centre	CA	CA	CA	CA	CA	CA
6	Chemical Engineering Centre	CA	CA	CA	CA	CA	CA
7	Chemical Engineering Centre - Education	CA	CA	CA	CA	CA	CA
8	Chemical Engineering Centre - Research	CA	CA	CA	CA	CA	CA
9	Chemical Engineering Centre - Support	CA	CA	CA	CA	CA	CA
10	Chemical Engineering Centre - Training	CA	CA	CA	CA	CA	CA
11	Chemical Engineering Centre - Undergraduate	CA	CA	CA	CA	CA	CA
12	Chemical Engineering Centre - Postgraduate	CA	CA	CA	CA	CA	CA
13	Chemical Engineering Centre - Executive	CA	CA	CA	CA	CA	CA
14	Chemical Engineering Centre - Research	CA	CA	CA	CA	CA	CA
15	Chemical Engineering Centre - Support	CA	CA	CA	CA	CA	CA
16	Chemical Engineering Centre - Training	CA	CA	CA	CA	CA	CA
17	Chemical Engineering Centre - Undergraduate	CA	CA	CA	CA	CA	CA

18	Library	CA	CA	CA	CA	CA	CA
19	Library - Reference	CA	CA	CA	CA	CA	CA
20	Library - Journals	CA	CA	CA	CA	CA	CA
21	Library - Textbooks	CA	CA	CA	CA	CA	CA
22	Library - Study	CA	CA	CA	CA	CA	CA
23	Library - Services	CA	CA	CA	CA	CA	CA
24	Library - Children	CA	CA	CA	CA	CA	CA
25	Library - Archives	CA	CA	CA	CA	CA	CA
26	Library - Special Collections	CA	CA	CA	CA	CA	CA
27	Library - Rare Books	CA	CA	CA	CA	CA	CA
28	Library - Manuscripts	CA	CA	CA	CA	CA	CA
29	Library - Electronic Resources	CA	CA	CA	CA	CA	CA
30	Library - Digital Collections	CA	CA	CA	CA	CA	CA
31	Library - Open Access	CA	CA	CA	CA	CA	CA
32	Library - Preservation	CA	CA	CA	CA	CA	CA
33	Library - Digital Preservation	CA	CA	CA	CA	CA	CA
34	Library - Digital Preservation	CA	CA	CA	CA	CA	CA
35	Library - Digital Preservation	CA	CA	CA	CA	CA	CA
36	Library - Digital Preservation	CA	CA	CA	CA	CA	CA
37	Library - Digital Preservation	CA	CA	CA	CA	CA	CA
38	Library - Digital Preservation	CA	CA	CA	CA	CA	CA

## **NOVEMBER MEETING SPEAKER BIOGRAPHY–**

### **Darryl Boyce, P.Eng.**



Darryl K. Boyce, P.Eng., Fellow/Life Member ASHRAE, was the ASHRAE President for the 2019-2020 term. Boyce has previously served on the board of directors as treasurer, vice president, Director and Regional Chair Region 2 and director-at-large. Boyce is retired and was previously special advisor to the vice-president (Finance and Administration) – and the assistant vice president of facilities management and planning – at Carleton University in Ottawa, Ontario.

Throughout his time spent with ASHRAE and in the HVAC industry, Boyce has worked on various projects to increase energy efficiency. His most recent projects include the SNOLAB project in Sudbury, Ontario, where he is responsible for the design and construction of a world class research facility for underground science. Boyce is a 1982 graduate of the University of Alberta with a Bachelor of Science in Engineering and earned his Engineering Diploma from the British Columbia Institute of Technology in 1973.

This lecture will give a more in-depth perspective reducing carbon emissions and achieving enhanced indoor environments in a portfolio of buildings. The presentation will provide a roadmap to evaluate the opportunities to reduce the Energy use and Carbon emissions in existing buildings while improving the indoor environment. The presentation will demonstrate several evaluation tools that can be used to prioritize the initiatives to be implemented in each facility.

**This Month's Tabletop Sponsors**

**You can visit our sponsors at our November meeting,  
presenting their tabletop displays (during social hour & after  
the technical presentation)**

**konnectsys**

Presenting:

Honeywell



## **OCTOBER RECAP- WINDSOR ASHRAE MEETING**



ASHRAE Windsor October meeting took place Tuesday October 17<sup>th</sup>, where we had Hoy Bohanon discuss retro-commissioning for energy savings. Many items were discussed which include: Retro commissioning, LEED requirements, how the process saves energy, and what are some of the aspects of an energy saving retro-commissioning application. Guidance that is available from ASHRAE guidelines, and the types of savings from the process and what are the critical components to assure that savings are realized. Thank you to all who attended, and to Hoy for his time and engaging presentation.



The ASHRAE chapter service awards were given to Steve Koutsonicolas and Paul Greff at our last meeting. This award recognizes years of service in ASHRAE. Congratulations Steve and Paul on this well deserved accomplishment.

## **Ontario Invests in Capping Old Gas Wells to Prevent Another Wheatley Disaster**



Ontario is investing \$23.6 million to develop a province-wide strategy that includes identifying and capping old oil and gas wells to prevent petroleum-related emergencies in the future.

In 2021, the Chatham-Kent community of Wheatley faced such an emergency, when a hydrogen sulphide leak led to an explosion from underneath a former commercial building. An additional \$2.5 million is allocated through this new funding to assist with costs associated with

the explosion's emergency management and fallout.

The 2021 Wheatley explosion was captured on security camera footage. The three wells in connection with the blast have since been plugged and capped. An investigation revealed that gas came up through basement drains and was ignited by an appliance.

Former Chatham-Kent-Leamington MP Dave Epp led a meeting in the summer of 2022 to push the provincial government forward towards a renewed plan to address the approximately 27,000 oil and gas wells identified on record, primarily on private land in southwestern Ontario. Epp told reporters at the meeting that there are another estimated 6,000 wells with unknown locations.

The Ministry of Natural Resources and Forestry administers the Abandoned Works Program, which supports the plugging of inactive oil and gas wells that are at heightened risk to public safety or the environment by providing financial assistance to eligible landowners.

## **Novel Solution Could Reduce Furnace Emissions**



Oak Ridge National Laboratory researchers have developed a novel solution to reduce the environmental impact of natural gas-condensing furnaces commonly used in U.S. homes. The team built a prototype furnace that incorporates monolithic acidic gas reduction (AGR) as the catalyst to minimize acidic gases and condensate acidity, and oxidize carbon monoxide, hydrocarbons and methane. “AGR functions like a catalytic converter in a car, passing the exhaust over metals to reduce acidic gases and other pollutant emissions that contribute to global climate change,” said ORNL’s Zhiming Gao, ASHRAE Member. “This technology could be

applied to commercial rooftop units, thermally driven heat pumps, gas-fired water heaters and boilers.”

## **7<sup>th</sup> Annual Sustainable Detroit Forum**

Monday November 6<sup>th</sup> the 7<sup>th</sup> Annual Detroit Forum takes place at Wayne State University student center. Don't miss out on this opportunity to connect and learn about the amazing sustainability work happening in the region. Lightning round presentations will be accompanied by an esteemed keynote speaker, an informative lunchtime panel discussion, a wide range of exhibits and a networking reception. Those who are interested can find more information at: <https://www.sustainabledetroitforum.com/>

**MEETINGS AND EVENTS FROM 2023-2024:**

Sept. 11, 2023	Golf Tournament	Membership Promotion
Oct. 17, 2023	DL: Hoy Bohanon	CTTC Night
Nov. 21, 2023	DL: Darryl Boyce	GAC Night
Dec. 19, 2023	Christmas Social	Research Promotion
Jan. 19, 2024	TBD	
Feb. 20, 2024	TBD	
Mar. 19, 2024	TBD	
Apr. 16, 2024	Past President's Night	Historian
May 21, 2024	Student Presentations	Student's Night

**CHAPTER OFFICERS**

**BOARD OF GOVERNORS**

<i>President:</i>	<b>Jamie Smith</b>	(519) 890-8684	<b>James Smith, P.Eng.</b>	(519) 737-5725
<i>President-Elect:</i>	<b>Syed Hassan</b>	(519) 562-1881	<b>Dan Castellan, P.Eng.</b>	(519) 253-3000 x 2164
<i>Treasurer:</i>	<b>Dave Dufour</b>	(519) 816-8974	<b>Paul Greff</b>	(519) 969-8025 x332
<i>Secretary:</i>	<b>Ryan Bisnett</b>			

**CHAPTER COMMITTEES**

<i>Research Promotion</i>	<b>Amanda Forest, P.Eng. &amp; James Smith, P.Eng.</b>	(519) 984-5696 (519) 791-6291	<i>Government Affairs Committee</i>	<b>Paul Greff</b>	(519) 969-8025 x332
<i>Membership Promotion</i>	<b>Nathan Cook, P.Eng. &amp; Syed Hassan, P.Eng.</b>	(519) 948-5000 x3223 (519)562-1881	<i>Student Activities Chair</i>	<b>Jamie Smith</b>	(519) 890-8684
<i>Chapter Technology Transfer Committee</i>	<b>Dan Castellan, P. Eng.</b>	(519) 253-3000 x 2164	<i>Student Branch Advisor- University of Windsor</i>	<b>Dr. David Ting, P. Eng.</b>	(519) 253-2871
<i>Historian</i>	<b>Andy Hrutka</b>	(519) 978-3903	<i>Newsletter Editor</i>	<b>Kenten Puryk</b>	(519) 737-5725 x227
<i>Refrigeration Chair</i>	<b>Jon Palmer</b>	(519) 256-7922	<i>Reception</i>		
<i>YEA Chair (Young Engineers in ASHRAE)</i>	<b>Amanda Forest, P.Eng.</b>	(519) 984-5696			

## Advertising and Promotion

Actively participating in ASHRAE events is a great way to network and discuss potential projects and applications. Chapter meetings provide a captive audience and exposure to a group actively involved in our industry. Promotion opportunities are available during our chapter meetings, through the monthly newsletter and the new website.

### TABLETOP DISPLAY

What better way to present your product, or share great ideas than to have a tabletop display at our monthly chapter meetings.

The fee to provide a Tabletop Display is \$250.00 (CAD). In addition to the presentation, the fee also includes the cost of the presenter's meal (1 meal) at the event. If interested in providing a Tabletop Display at a future meeting to promote product lines or technologies, please contact Jamie Smith or Syed Hassan to schedule.

### BUSINESS CARD PROMOTION

The monthly newsletter is distributed to all of our ASHRAE Windsor members as well as several others that are involved in our industry. Inclusion of your business card in the newsletter would provide a great opportunity to introduce your name and company to those members who may not know you personally. Business cards may also be displayed on the new website.

The fee to include your business card in the newsletter is \$100.00 (CAD) for the year ending June 30, 2024. If interested in having your business card information included in the monthly newsletter, please contact Jamie Smith.

## ASHRAE Chapter Involvement

It is a welcome sight to see Chapter members and non-member guests alike attend the monthly meetings and events. The time and effort put forth by all individuals to attend these events is greatly appreciated as it not only helps to strengthen and develop our Chapter as a whole, it also expands the knowledge and understanding of our industry.

As it takes time and effort to attend these meetings, it also takes a great deal of time, effort and dedication to organize and prepare for these events so that they are informative and enjoyable for everyone.

It is a goal of the Windsor Chapter to increase the number of participating members. Involvement in Chapter operations is not limited to the Board of Governor and Chapter Committee positions. All individuals interested in getting involved with ASHRAE at any level are encouraged to volunteer in any capacity they are willing and able to. Any efforts to help the Windsor Chapter continue to develop and improve would be greatly appreciated.

If anyone is interested in volunteering for general involvement or to assist with any specific task, please contact Jamie Smith.

[windsorashrae141@gmail.com](mailto:windsorashrae141@gmail.com)  
Jamie Smith – (519) 890-8684



## **ASHRAE Research Promotion 2022 / 2023 Donors**

A very special thank you to the following individuals and Companies who donated last year and allowing our chapter to achieve our Goal!

- ASHRAE Windsor Chapter Executive - Amanda Forest, Jamie Smith, David Dufour
- Prof David S Ting
- Dayus Register & Grille Inc – Long time Generous donor!
- Accu-Air Balance Company
- Architecttura, Inc.
- Baymar Supply Limited
- Caltab Air Balance Incorporated
- Dillon Consulting Limited
- Delta Integrated Building Solutions
- Eagle Heating & Cooling
- EH Price
- Encore Mechanical & Building Services
- Engineered Air
- Fieldcraft Engineering Limited
- Haller Mechanical
- HTS
- JASEL Engineering Inc.
- Kenwill Services Limited
- Konnectsys Inc.
- Lektor Industrial Services Incorporated
- L K Metal Products Company Limited
- Marks Supply Ltd
- Mechanical Contractors Association – Windsor
- Mits Air Conditioning Inc
- Pelisek & Associates Incorporated
- Protrades Mechanical Inc
- Service Experts
- Smith Energy
- Somer Environmental Products Inc.
- Trane – Windsor
- Vollmer Inc
- Warrior HVAC Solutions
- Windsor ASHRAE Chapter

## ASHRAE – Serving our Members, and more

### **ASHRAE Newsletters**

There's a lot of newsletters available. Some are automatic when you become an ASHRAE Member, such as the following:

[ASHRAE Journal Newsletter](#)

[ASHRAE Insights](#)



You can also connect to other publications from the ASHRAE Website.

[HVAC&R Industry News](#)

[Government Affairs Updates](#)

[High Performing Buildings Newsletters \(HPB\)](#)

[Standards Action Newsletters](#)

Click the following link to review these newsletters, and others!

<https://www.ashrae.org/about/marketing-central/email-newsletters>

### **Training and Certifications**

While ASHRAE has some great videos (accessed [here](#)), they also have Instructor Led Training and Certifications:

**Training:** <https://www.ashrae.org/professional-development/all-instructor-led-training>

[Health Impacts of Indoor Air Extraction, Ventilation and Filtration](#)

[Evaluating Your HVAC System's Readiness to Mitigate the Spread of SARS-CoV2](#)

(note – check the website for specific times)

**Certifications:** <https://www.ashrae.org/professional-development/ashrae-certification>

[Building Design Certifications](#)

[Building Performance Certifications](#)

[Building Operations Certifications](#)