

NEWSLETTER

DECEMBER MEETING – RESEARCH PROMOTION

Christmas Social Event



Date: Tuesday, December 12th, 2023

Location: Legion 594 (Main Hall), 5030 Howard Avenue, Oldcastle

Topic: ASHRAE Windsor Christmas Social (dinner followed by darts and pool)

Time: Doors Open at 5:00 PM, Dinner for 6:00 PM

Registration Deadline: Monday, December 11th, 2023

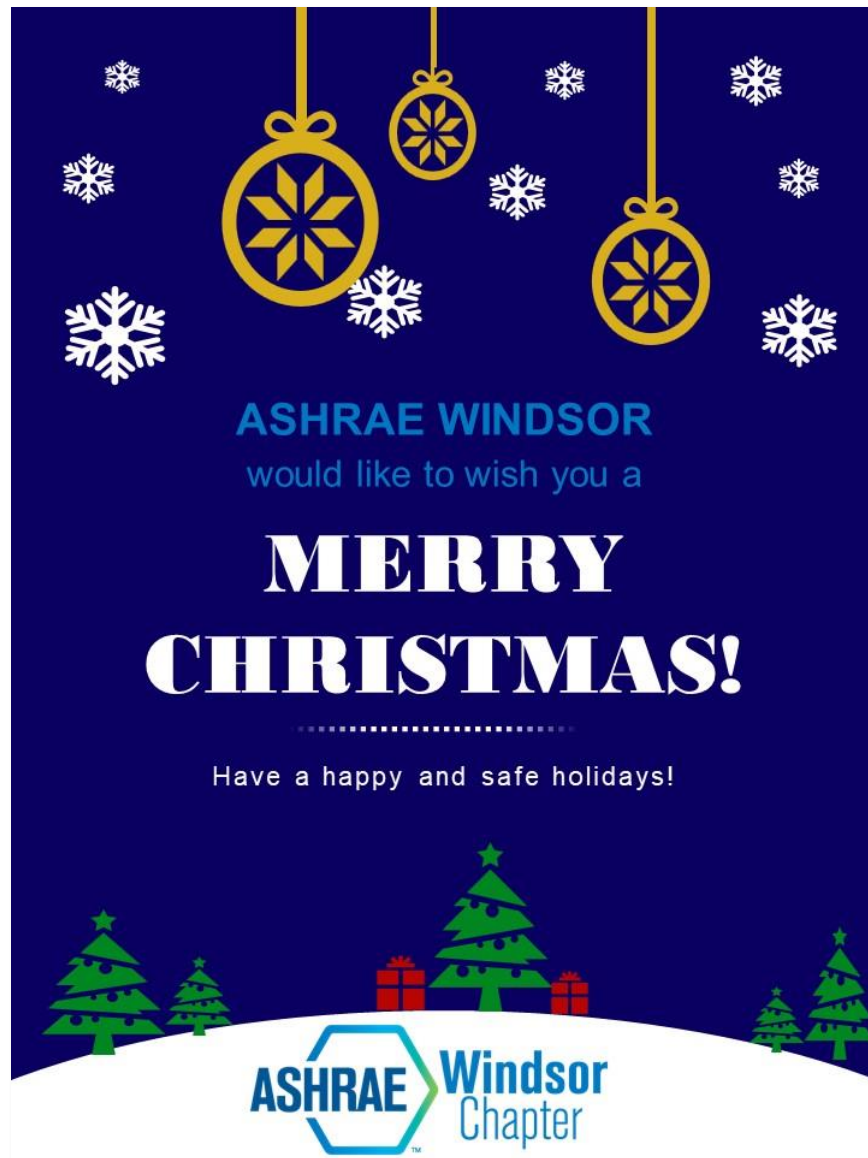
Cost: \$30 for ASHRAE Members, \$35 for Non-Members, \$20 for Students

Registration Link: <https://ashraewindsor.simplesignup.ca/13366>

Menu Link for Legion (Cost Includes Entrée): <https://rcl594.com/the-bunker/>

Or contact Syed Hassan at: 519-562-1881, E-mail: syed.hassan@enbridge.com

DECEMBER MEETING – CHRISTMAS SOCIAL

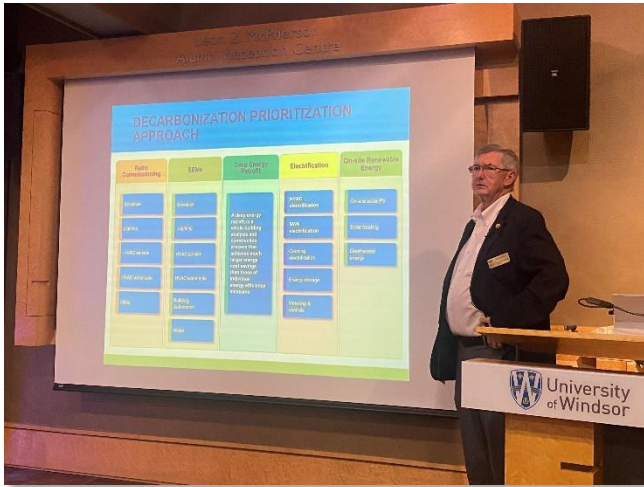


ASHRAE Windsor would like to invite you to our Christmas Social Event. Come celebrate the coming holidays and enjoy a social night of darts and pool with us. This is a great way to network and discuss potential projects and applications, while having fun. Chapter meetings provide a captive audience and exposure to a group that is actively involved in our industry. Promotion opportunities are available during our chapter meetings, through the monthly newsletter and tabletop displays.

YEA Call Out

All members are encouraged to bring out a YEA (young engineer in ASHRAE, who is 35 years old or less) person out to this event.

NOVEMBER RECAP- WINDSOR ASHRAE MEETING



ASHRAE Windsor November meeting took place Tuesday November 21st, at the University of Windsor, where we had Darryl Boyce give a lecture regarding reducing carbon emissions and achieving enhanced indoor environments in a portfolio of buildings. The presentation provided a roadmap to evaluate the opportunities to reduce the Energy use and Carbon emissions in existing buildings while improving the indoor environment. Thank you to all who attended, and to Darryl for his time and engaging presentation.

AI Control Tech to Optimize Performance of Air Source Heat Pumps



Scientists from Pusan National University in South Korea have developed an optimization technique that controls the secondary refrigerant flow in air source heat pumps (ASHPs). The proposed technology offers the advantage of bypassing the need to control the compressor of the ASHP, a function not commonly available in

commercial devices. They developed an artificial neural network (ANN)-based optimum control logic (OCL) system that optimizes performance and operation. In a paper published in Energy Reports, the group explained that the OCL system can identify parameters that increase system performance without changing the main components of the system.

U.K. Company to Reuse Waste Heat from Cloud Computing



An English startup, Heata, is using busy servers to heat water for homes. “The idea of using the wasted heat of computing to do something else has been hovering in the air for some time,” explains Chris Jordan, cofounder and chief technology officer of Heata, “but only now does technology allow us to do it adequately.” The process is simple yet introduces a radical shift toward

sustainable management of data centers: instead of being cooled with fans, which is expensive and energy intensive, computers are cooled by a patented thermal bridge that transports the heat from the processors toward the shell of the boiler. And rather than operating with a data center located in an energy-intensive location, the technology works as an intermediary for computing: it receives workloads and distributes them to local homes for processing.



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

CHAPTER COMMITTEES

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

Research Promotion (RP) Update

The History of ASHRAE Research

Since 1919, ASHRAE has supported research to improve the quality of life. ASHRAE Research impacts the industry by improving the way HVAC&R systems work, how they are applied and allow development of technical information to create standards and guidelines, which serve as the basis for testing and design practices around the world.

Our ASHRAE Society funds thousands of projects addressing topics such as sound, duct design, the effect of oil in refrigerants, load calculations, thermal conductivity, simplified energy analysis procedures, weather data, refrigerant property data, fire and smoke control and solar design. The most significant ASHRAE research is in the areas of human comfort and the properties of materials and systems used in buildings and refrigeration systems.

Why You Should Contribute to ASHRAE Research.....

ASHRAE Research is essential to updates that are made to the Society's standards and guidelines, which provide uniform methods of testing for rating purposes. The standards and guidelines suggest safe practices for design and installation and provide other information which guides the industry. There are currently more than 100 ASHRAE standards and guidelines. These are available in the online bookstore.

Investments and Contributions go Directly to Research All funds raised through the research promotion efforts go directly to research projects. Funds raised from other sources pay for administrative and committee expenses and support material, and also help fund projects and grants-in-aid.

ASHRAE Windsor RP UpdateVery recently, the former three (3) Senior partners of Baymar Supply created their own RP endowment fund as a thank you to ASHRAE. With this very generous donation, this one time contribution is guaranteed into perpetuity at a set rate of 5% return to our RP campaign. Thank you very much Greg, John and Frank!

If you are interested in creating your own personal endowment fund, contact James Smith. A minimum contribution of \$3,000 is required.

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](#)