



DATE: Tuesday May 17th, 2022
16:30 – 21:00 Hrs EST

LOCATION: Centurion Conference and Convention Center

PROGRAM: Buildings Are Our Best Medicine – If We Properly Hydrate Our Indoor Air

DESCRIPTION:

The indoor environment, where most of us spend 90% of our time, is one of the largest determinants of human health. Why then, do building standards focus on aesthetics, energy conservation and dramatic failures such as fire and earthquakes – while neglecting regulation of the indoor environment and indoor air quality (IAQ) to specifically support occupant health?

Almost overnight, a mutating member of the ubiquitous Coronavirus family wreaked havoc in our homes, communities, and – in fact– the entire world. Confusion about routes of COVID-19 transmission and the role of our own immune system in disease progression resulted in fear about how to safely inhabit our homes, schools, offices, and all enclosed spaces.

Despite the complexity of the interacting factors between indoor environments and human occupants, research motivated by the COVID-19 pandemic as well as preexisting studies in microbiology, medicine and building science, highlight a key step that we can take to support human health. Humans need mid-range levels of water vapor in occupied spaces to be healthy!

Safely maintaining indoor relative humidity between 40% to 60% will diminish the transmission of airborne infectious diseases and support human health – in all seasons. Conversely, dry indoor air during heating seasons in cold climates promotes viral respiratory diseases as well as a host of other health problems.

Dr. Taylor will present studies showing the health benefits of hydrated air and will discuss the opportunities and challenges in maintaining an indoor relative humidity of 40%–60% worldwide.

SPEAKER: Stephanie Taylor, M.D., M. Arch

Dr. Stephanie Taylor received her M.D. from Harvard Medical School, Boston, Massachusetts in 1984. For the next several decades, she practiced clinical medicine and did academic research in cellular growth mechanisms.

During this time, she became increasingly concerned about patients who were harmed by new infection during their in-patient treatment. Determined to gain a better understanding of the impact of the built environment on patient well-being, she returned to school and obtained her master's degree in Architecture and Engineering from Norwich University in Northfield, Vermont. After working for several years in a healthcare design architecture firm, she founded Taylor Healthcare Consulting, Inc., in order to focus on designing, building and maintaining hospitals to better support patient healing. She quickly learned that many of the building and indoor air characteristics that affect people in hospitals also influenced the health of all people in buildings.



Dr. Taylor is currently working at the intersection of architectural design, indoor air management, the microbiome of the built environment and occupant health. She finds the impact of buildings on our health startling! Managing the built environment and indoor air with the goal of decreasing diseases from acute infections to chronic inflammation to cognitive impairment, is a very underutilized yet powerful approach to disease prevention. She finds that her physician insights and biological research helps her understand the science behind the interaction of buildings, human physiology and energy consumption.

Dr. Taylor has designed hospitals globally, from the United States to Papua New Guinea to Vietnam. In addition to her Taylor Healthcare Consulting work, she is a member of the Harvard Medical School Incite Health Fellowship. This program brings together multidisciplinary teams from across the US, trains them in design thinking and entrepreneurship, and gives them the tools and resources to guide the future of medical care.

To communicate her work and understanding about the fascinating convergence of human health, microbiology and architecture, Dr. Taylor writes monthly columns and bi-annual feature articles for Engineered Systems Magazine and publishes in other healthcare journals. She is an active member of ASHRAE, ASHE and national and international medical associations. When not working elsewhere, Dr. Taylor lives in beautiful Stowe, Vermont with her husband and eight dogs. One of her favorite activities is skydiving, which she finds is great practice for staying outside of her comfort zone!

May Meeting Agenda

- 4:30PM-5:30PM Tech Session
Topic: Indoor Air Quality
Speaker: Lan Chi Nguyen Weekes, P.Eng., ing
- 5:30PM-6:15PM Social Hour
- 6:15PM-7:00PM Dinner
- 7:00PM-8:00PM Business Session
- 8:00PM-9:00PM Program
Topic: Buildings Are Our Best Medicine – If We Properly Hydrate Our Indoor Air
Speaker: Stephanie Taylor, M.D., M. Arch
Theme: History

Please register online at link below (below prices for VIRTUAL attendance)

ASHRAE Associate/Affiliate/Member: \$5	ASHRAE Member Guest: \$10.00
ASHRAE Student: \$0	Non-Member: \$10.00

Below prices for IN PERSON attendance

ASHRAE Associate/Affiliate/Member: \$48.00	ASHRAE Member Guest: \$48.00
ASHRAE Student: \$35.00	Non-Member: \$65.00
Past President: \$0.00	Past President Companion: \$0.00

[Meeting 8 – Tuesday, May 17 2022](#)

TECH SESSION: **Indoor Air Quality**

DATE: **Tuesday May 17th, 2022**
16:30 – 17:30 Hrs EST

LOCATION: **Centurion Conference and Convention Center**

SPEAKER: **Lan Chi Nguyen Weekes, P.Eng., ing**

Ms. Lan Chi Nguyen Weekes, P.Eng., ing., is currently the Director, Facilities and Protection for La Cité College in Ottawa, Ontario. Ms. Nguyen Weekes has over thirty (30) years of expertise on environmental issues, particularly the interaction between buildings and human health. Currently, she is working on implementing a Net Zero Carbon strategy on La Cité campuses and assessing the impact of climate change on the built environment.

She was the chair of the ASHRAE Multidisciplinary Technical Group on Health and Wellness in the Built Environment, and a member of ASHRAE Vision 2030. Recently, Ms. Weekes served as a committee member of the ASHRAE Position Document on Indoor Carbon Dioxide as well as a project member of the Management of Legionella in Water System Committee of the National Academy of Science, Engineering and Medicine (NASEM).

DESCRIPTION:

What qualifies as good Indoor Air Quality (IAQ)?

That question has been asked numerous times not only during this on-going pandemic, but on many occasions before going back as far as we know to Ancient Greece.

This presentation will focus on what is defined as Indoor Air Quality for various types of environments and its importance in occupant's comfort, health, and wellness. It will also cover some common air contaminants, the effects of exposure, and their control measures. And finally, we will discuss some emerging IAQ issues and their impact.

Technical Tour: Condair Factory

Event: **Tour of Condair's facilities provided by Dave Ball and Mike Hurley.**

DATE: **Tuesday May 17th, 2022 (same day as the program meeting!)**
2:00PM to 3:00PM

LOCATION: **Condair, 2740 Fenton Rd, Ottawa, ON K1T 3T7**

The Condair Group has been the world's leading manufacturer of commercial and industrial humidification and evaporative cooling products for more than 70 years. With sales operations in 14 countries and distributors in over 45, Condair sets industry standards with regard to energy efficiency and hygienic solutions.

Condair has a comprehensive product offering that is comprised of the following product brands: Condair, Defensor, Draabe and ML System. These five product brands are manufactured across the group's six strategically located global production facilities. The Condair product brand is represented in North America by Condair. Headquartered in Ottawa, Ontario, Canada, with a second facility in Sturtevant, Wisconsin, Condair offers humidifier design, manufacturing, supply, installation, and maintenance.

Note: the Condair Facility requires proof of full vaccination and a face mask. Toe covers and protective eye wear will be provided, but you are welcome to bring your own steel-toed boots.

President's Message

Thank you to everyone who attended the April meeting on ESAP presented by Adam Kurz, we had our largest meeting of year yet and we are extremely encouraged by all of your support. Please let others know about our in-person meetings, especially people new to our industry, this is a great way to make connections and start networking after the last two years.

ASHRAE Society is coming to Toronto this summer, you can read about it in the News section, but Toronto is also looking for monitor volunteers, and they are offering a complimentary conference registration. [Find out more here.](#)

The May meeting will be our last of the year and we are excited to invite Past Presidents and their Companions to join us in person or virtually as they are comfortable with. We are also very excited to have Distinguished Lecturer Dr Taylor traveling coming to Ottawa for the presentation on how humidity helps us make buildings healthier for occupants. It will be a great perspective on buildings using her experience from the medical field as well as her time on the ASHRAE epidemic task force.

This month's meeting will also look a bit different than in past years, this is due to the Incorporation I spoke of last month, we are now required to vote in our executive and board and we are hoping to get your cooperation in achieving the votes to meet our Chapter bylaws and meet quorum. To do this I am asking all members in good standing, not attending the May meeting to please fill out the proxy form and send it in ([Please see page 14 for proxy form](#)). We would really appreciate your support to keep the chapter working for you, look for an email in the next week with further information.

Our theme for May is History, led by Zacharie Lanthier, we have a rich 70 years of chapter history starting in 1952, and we have a ton of videos, photos and documents from over the years and on our website. Come out to see the table-top for this month!

It has been a whirlwind of a year and we are very thankful for all of your support, relatively few COVID-19 related complications, and with only two fully virtual meetings this year, out of 8. I am very proud of the volunteers that stepped up and got us back up and running close to what we used to as we could as we tried and figure out what normal looks like. I have challenged many of you, but each one has taken ownership of them and have made things happen, we would not have made this year what it was without all of the dedicated volunteers behind the scenes. We have such a strong Chapter here in Ottawa because of the participation and volunteerism we have, thank you all for everything you did this year, between attending events and meetings, to making calls, to taking photos, each piece has made a huge difference to our chapter.

We are looking forward to our new balloted voting, for the 2022-2023 Board of Governors and Executive at the May meeting. I am proud to be handing this off to the incoming President Ryan Dickinson and the great team he will have working with him, please give him your support as they prepare for the coming year.

Take care everyone, and I look forward to seeing you all soon, either virtually or in person!



President
Adrienne Mitani
2021-2022
OVC President
Smith + Andersen

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<p>ROY SAMHABER, P. ENG. senior project manager</p> <p>P: 613 224 7500 x6158 P: 888 283 7267 F: 613 224 3726 rsamhaber@ameresco.com ameresco.ca Ameresco Canada Inc. 106 Colonnade Rd N, Ste 200 Ottawa, ON K2E 7L6</p>	<p><i>Mark Csiffary P.Eng.</i> President</p> <p>2470 Don Reid Drive Ottawa ON K1H 1E1 mark@baxtec.com www.baxtec.com W: 613-738-7450 C: 613-229-8277</p>	<p>Belimo Aircontrols (CAN), Inc. 5845 Kennedy Road Mississauga, ON L4Z 2G3 Direct: +1 905-712-2046 Cell: +1 902-222-8599 Fax: +1 905-712-3124 gordon.inспен@ca.belimo.com www.belimo.ca</p> <p>Gordon Inкpen District Sales Manager - Eastern Canada, Atlantic & Ottawa</p>
<p>ENGINEERING PERFORMANCE...</p> <p>... mechanical, electrical, building automation, environmental, ...</p> <p>Patrick St-Onge, P. Eng. LEED AP 613-596-6454 bpa.ca 1860 Robertson Road, Suite 100, Ottawa, Ontario, K2H 5B9</p>	<p>Danny Dillon, MBA, GSC President & CEO</p> <p>E: Danny.Dillon@DILFO.com T: 613.741.7731 C: 613.880.8504 1481 Cyrville Road, Ottawa, ON K1B 3L7</p>	<p>Brevin MacKay Engineering Sales / Account Manager Gorski, Plener and Associates (GPA inc) Ottawa, ON</p> <p>Direct: (613) 218-9686 Office: (343) 488-3000 Email: bmackay@gpainc.ca</p>

What You Missed

ASHRAE OVC program meetings continued to see an encouraging uptick in in-person attendance at the April 2022 event held on the 19th at the Centurion Conference & Event Center with 41 attendants coming out in person and 7 attending virtually. The Ottawa Valley Chapter continues to work hard to host speakers with knowledge on topics that are of great interest to the engineering community, and this meeting was no exception.



Secretary
Evans Mutua
 2021-2022
 OVC
City of Ottawa

Joel Primeau conducted the tech session, explaining the principles and history of hydronic design. Some of the interesting points raised include why the traditional 140°F - 180°F water temperature might be outdated for modern boilers. Optimal chilled water design is also affected by more efficient chillers, allowing engineers to design for a higher than 10°F ΔT, improving not only equipment efficiency but overall system efficiency. For more insight on pipe sizing, piping configuration and more, be sure to watch Mr. Primeau's full presentation on the OVC YouTube channel.

E-mail: Evans.Mutua@ottawa.ca

Chapter President Adrienne Mitani conducted the business session during which she confirmed that the June golf event was now live on social media. She also announced that the Chapter Director, Sandy Taylor was stepping away and the Chapter was getting ready to announce a replacement. The Region 2 ASHRAE CRC (Chapters Regional Conference) will be held in Ottawa between August 26th – 28th 2022 and Jayson Bursill who is the chair of that committee is recruiting volunteers for the event. All are welcome to apply by writing to Jayson.

Celine Baribeau introduced 8 guests and Josh Bourbonnier introduced 9 new members. The table-top was presented by Andrew Brown of Master Group.

Steve Moons announced the nomination of Jayson Bursill to the Executive as Secretary for the 2022 - 2023 year. Evans Mutua will be moving to Treasurer, Celine Baribeau will be the President Elect, Ryan Dickinson will be President and Adrienne Mitani will be Past President.

The program meeting was delivered by Adam Kurz. He presented on the ongoing multi-stage project to modernize the district energy system serving federal buildings in the capital region by transitioning from high pressure steam to low temperature hot water for heating. The program which is formally known as ESAP (Energy Services Acquisition Program), is of much interest to the engineering community in the city and beyond, due to not only its massive scale, but also the level of ambition involved in achieving carbon neutrality. Mr. Kurz did a fantastic job of explaining the stages: modernization and deeper greening, principles behind smart buildings and smart plants, and a whole lot more. Unfortunately, this presentation was not recorded to comply with the owner's requirements. However, there is a great deal of public information available at: [Low carbon in the National Capital Region's buildings](#)

 <p>Goodkey, Weedmark & Associates Limited Consulting Engineers</p> <p>Ross McIntyre, P.Eng. Principal, Designated Consultant, Mechanical Engineer</p> <p>1688 Woodward Dr., Ottawa, ON, Canada, K2C 3R8 Telephone: 613-727-5111 ext. 239 Fax: 613-727-5115 rossmco@gwal.com</p> 	<p>Rod Lancefield P.Eng. LEED® AP Engineering Sales rod.lancefield@hts.com C 613.851.1997</p> <p>HTS Ottawa 830 Campbell Avenue Ottawa, Ontario K2A 2C2 T 416.661.3400 Ext: 2803 F 613.728.8032 Toll Free 1.800.850.0567 hts.com/ontario</p>  	 <p>J.L. Richards ENGINEERS - ARCHITECTS - PLANNERS</p> <p>Jim Evenson P.Eng., ing., LEED AP Associate, Chief Mechanical Engineer</p> <p>www.jlrichards.ca</p>  <p>jevenson@jlrichards.ca T 343 804 4385 C 613 222 7209</p> <p>J.L. Richards & Associates Limited 864 Lady Ellen Place Ottawa, ON Canada K1Z 5M2</p>
<p>Jp2g Consultants Inc.</p> <p>Mark MacIsaac, P.Eng. Mechanical Team Lead</p> <p>1150 Morrison Drive, Suite 410 Ottawa, ON K2H 8S9 Tel.: 613.828.7800 x.213 Cell: 613.697.4721 Email: markm@jp2g.com</p> 	 <p>Chris Harrison President</p> <p>chrish@longhill.ca Phone and cell option 613-226-3656 ext. 24 Fax: 613-226-2715 124 Reiss Rd., Ottawa, Ontario K0A 1L0 www.longhill.ca</p> <p>The Energy Conservation People</p>	 <p>Benjamin Moore, P.T. Regional Sales Director Eastern Ontario & Western Quebec Applied, Commercial, Heating, Ventilation & Engineered Sales bmoore@master.ca</p> <p>T 613-829-2816 #41118 C 613-324-3087 F 613-829-3731 1 866-429-1977</p> <p>The Master Group 25H, Northside Road Ottawa (Ontario) K2H 8S1</p> <p>MASTER.CA</p>

Membership Update

I would like to introduce and welcome the following new members:

- Raymond Lalonde
- Andrew Brown
- Ahmad Dawoud
- Heike Schreiber
- Ryan Chartrand
- Tyler Dempsey
- Rachid Boudhair
- Bill Anderson
- Jeremie Trottier
- Vincent Delaney



Committee Chair
Josh Bourbonniere
2021-2022
OVC Membership Committee Chair
TRANE

E-mail: josh.bourbonniere@trane.com

At any time, if you have any questions or comments regarding your ASHRAE membership, please do not hesitate to contact me. Thank you all for the continued support and participation with your local ASHRAE chapter during these times. Looking forward to seeing everyone at our final ASHRAE meeting in May.

Student Activity

ASHRAE OVC recently took part in judging the Ottawa Regional Science Fair. As a sponsor of one of the awards we were invited to review and judge the entries. Jayson Bursill and Noah Goddard represented the chapter as judges.

This year we reviewed some terrific presentations on everything from geothermal heat pumps to carbon capturing techniques. We were looking for entries that followed a well thought out method, spoke to the core tenets of ASHRAE, and were well understood by the presenter.

After careful deliberation, the winners selected were:

- Electromagnetic Braking – A Safer Alternative for Elevators: Safal Kaur Bhullar
- Dark Skies in Ottawa: Tamsen Taylor
- A Closer Look at Carbon Calculators: Aliyan Boodhwani



Committee Chair
Noah Goddard
2021-2022
OVC Student Activities Chair
Longhill Energy

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News Update

Registration is Open for the 2022 ASHRAE Annual Conference in Toronto!

The five-day conference includes sessions addressing current trends and technologies in the HVAC&R industry, as well as tours, social events and a keynote message from Fredi Lajvardi, nationally recognized STEM educator and subject of IMAX film, Dream Big.

"ASHRAE's Annual Conference offers a unique combination of education, technology and networking in an effective format where industry professionals can share best practices, insights and real-world experiences with peers from around the world," said 2021-22 ASHRAE President Mick Schwedler, P.E., Fellow ASHRAE, LEED AP. "We're excited to come together in Toronto – a vibrant city known for innovation – and know the conference will be a worthwhile experience for all in attendance."

This conference's technical program is comprised of eight tracks, with over 70 sessions and over 200 speakers. Some topics include decarbonization, environmental health and energy system integration and building performance.

Find out more here: [ASHRAE Annual Conference - Toronto 2022](#)



**CTTC
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YEA Update

This past month we hosted our first social event in a long time at Tailgators on Merivale. It was a great start to what I'm sure will be more successful events in the future as we return to normal. We ate, we drank, we laughed, we played pool. Great seeing everyone out there, including some new faces. Keep your eyes and ears open as we plan to hold another social event soon and hope to see even more ASHRAE members at the next one!



**Committee
Chair**
**Jeremy
Strong**
2021-2022
OVC YEA
**Johnson
Controls**

E-mail: jeremy.strong@jci.com



Research Promotion

THANKS TO ALL OUR DONORS TO DATE!

Our 2021-2022 campaign is nearly completed, we will be reaching out to a few more donors this month. Remember you can always visit the ashrae.org website and follow the Research Promotion tabs to donate directly (if you do, be sure to correctly identify our chapter so your donations are registered against our goal locally).



Governor
Joël Primeau
2021-2022
OVC Research
Promotion
Committee

At the May meeting, we will be presenting the coins and plaques to our donors from our 2020-2021 campaign. Here is the list of our generous donors from last year who will be recognized with a gift at our May meeting.

Donations of \$5000 or more (Shadowbox):

James E Harrison

Donations of \$3000 or more (Gold coin):

Mitsubishi Electric Heating and Cooling

Donations of \$1000 or more (Silver coin):

Ainsworth, Inc.

Trane Canada - Ottawa

Goodkey Weedmark & Associates

Total HVAC Inc

Mechanical Contractors Assoc. of Ottawa

Donations of \$500 or more (Bronze coin):

Parson Refrigeration

Clément Marchand Natural Gas Service

Mr Randolph J Cavill

Donations of \$150 or more (Antique coin):

Mr Micheal W Swayne

Mr Frank W Bann

Mr Joel C Primeau

Mr Aaron R M Dobson,

Mr Daniel J Redmond,

Mr Donald Weekes, Jr

Brian Francis

Mr Glenn S MacLean

Dr Carolyn M L Kerr

Mr Roderick J Lancefield

Mr Adam Graham

Mr Darryl K Boyce

Mr Ryan Dickinson

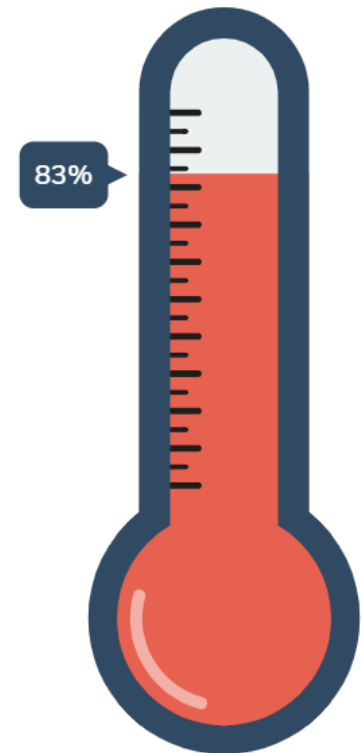
Mr Trevor Thomson

Ms Adrienne Mitani

Mr Andrew Douma

Mr Steve M Moons

Mr. Evans Wambua Mutua



2021 – 2022

Thanks again to all of our donors. ASHRAE can't do all of its exciting work without your contributions.

Joel Primeau
ASHRAE RP Chair

ASHRAE Society link: <https://xp20.ashrae.org/secure/researchpromotion/rp.html>

ASHRAE OVC link: <https://ashraeottawa.simplesignup.ca/en/9710/index.php?m=eventSummary>

ASHRAE Research to address COVID-19: <https://xp20.ashrae.org/secure/foundation/covid.html>

ASHRAE Best Ball Golf Tournament

Location:

The Marshes Golf Club
525 Legget Drive
Ottawa, Ontario K2K 2W2

Date:

Tuesday, June 21, 2022

Registration & Check In – 11:00 AM
Tee Off – 12:00 PM - Noon shotgun start
Dinner - 6:00 PM

Costs:

Golf Foursome – Includes Golf with Cart, lunch & Dinner - \$800
Standard Sponsorship – Includes sign on course - \$200
Premium Sponsorship – Includes sign, hole sponsorship and name on the premium sponsor banner in clubhouse - \$1,000
Dinner Only - \$60




Note that we will be following the Ontario Public Health guidelines for the event. Please get in touch if you have any questions or concerns. Please see below link for registration:

<https://ashraeottawa.simplesignup.ca/en/11118/index.php?m=eventSummary>



Special Events
Rod Lancefield
2020-2021
OVC Publicity
Committee Co-Chair
HTS Engineering Ltd.

E-mail: rod.lancefield@hts.com

 <p>Stéphan Riffault, P.Eng. Branch Manager</p> <p>2310, St-Laurent Blvd., Unit 203 Ottawa (Ontario) K1G 5H9 613 565-2129, ext. 2128</p> <p>sriffault@regulvar.com www.regulvar.com</p>	 <p>Elaine Guenette P.Eng., LEED AP Principal</p> <p>E Elaine.Guenette@smithandandersen.com D 6136911853 M 3439612244</p> <p>530 - 1600 Carling Ave., Ottawa ON, K1Z 1G3 T 613 230 1186</p>	<p>David Yin P.Eng., LEED AP Principal, Buildings Senior Mechanical Engineer</p> <p>400-1331 Clyde Avenue Ottawa ON K2C 3G4</p> <p>david.yin@stantec.com Direct: 613-725-5573 Mobile: 613-323-4964 Fax: 613-722-2799</p> 
 <p>Frank Picchione Regional Sales Manager</p> <p>Tel: 800-561-3449 Cell: 514-781-8381 Fax: 800-668-8476 frank@tamcodampers.com www.tamcodampers.com</p> <p>TAMCO locations in Ottawa, Ontario and Nashville, Tennessee</p>	 <p>Steve Moons, P.Eng. Principal</p> <p>4A - 1050 Baxter Rd. Ottawa, Ontario Canada, K2C 3P1</p> <p>P: 613-723-4611 C: 613-229-5806 E: stevem@totalhvac.com W: www.totalhvac.com</p>	 <p>Glenn Jones B.Eng LEED AP BD+C Sales Manager - HVAC Systems</p> <p>1024 Morrison Drive Ottawa, ON K2H 8K7 613-356-1940 / Cell 514-951-7809 613-820-8111 / Fax 613-820-1414 gjones@trane.com www.trane.com</p> 

Government Affairs

To stay current on ASHRAE COVID-19 Response resources check out <https://www.ashrae.org/technical-resources/resources> including guidance's on infection aerosols, position documents and more.

ASHRAE Members Speak at Efficiency Canada Webinar on Building Decarbonization

As part of [Efficiency Canada's](#) Discovery Session webinars, ASHRAE members Thomas H. Phoenix, P.E., BEMP, FASHRAE, Presidential Member, Mechanical Contractors, Inc. and Darryl Boyce, P. Eng., ASHRAE Presidential Member 2019-2020, Vice Chair of ASHRAE's Government Affairs Committee, presented how ASHRAE is generating new tools and standards in the sphere of building decarbonization, and why building decarbonization matters. To view the webinar, please visit [this page](#).

Thank you, Tom and Darryl, for sharing your expertise!

Increase in Atmospheric Methane Set Another Record During 2021

For the second year in a row, National Oceanic and Atmospheric Administration (NOAA) scientists observed a record annual increase in atmospheric levels of methane, a powerful, heat-trapping greenhouse gas that is the second largest contributor to human-caused global warming after carbon dioxide.

NOAA's preliminary analysis showed the annual increase in atmospheric methane during 2021 was 17 parts per billion (ppb), the largest annual increase recorded since systematic measurements began in 1983. The increase during 2020 was 15.3 ppb.

Meanwhile, levels of carbon dioxide also continue to increase at historically high rates. The global surface average for carbon dioxide during 2021 was 414.7 parts per million (ppm), an increase of 2.66 ppm over the 2020 average. This marks the 10th consecutive year that carbon dioxide increased by more than 2 parts per million, which represents the fastest sustained rate of increase in the 63 years since monitoring began.

To read more, please visit [here](#).

Efficiency Canada Releases report on low-income Energy Efficiency Programs

On Thursday, March 31, [Efficiency Canada](#) released its "[Efficiency for All](#)" report, a research report of low-income energy efficiency programs, spending, and challenges across Canada.









According to the report, federal investment in existing programming could close gaps in program design and policy support, leading to more substantial energy savings per home and increasing participation from Canadians most in need.

Read the report [here](#), and learn more by attending Efficiency Canada's Friday [DiscoverEE Sessions](#).



**President-Elect
Ryan Dickinson**
2021-2022
OVC GAC Chair
V&R Engineering

E-mail: ryand@vreng.ca

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Inside Sales Job Description

Total HVAC's team is growing! If you are a committed, enthusiastic, problem solving, and collaborative professional looking to contribute to a hard-working, professional, and knowledgeable team, this opportunity is for you.

About us:

Total HVAC has been a leader in the supply of commercial heating, ventilation, and air-conditioning equipment in Eastern Ontario for more than 25 years. We pride ourselves on giving our customers, be they contractors, consultants, or end-users a value-added experience from start to finish for all our products and solutions. We are known for our exceptional response time, system and equipment knowledge, and professionalism. It is our mission to make lives better by providing an unparalleled HVAC equipment purchasing experience, and to be the most respected and admired HVAC employer and supplier in our market. Our core philosophies of teamwork, professionalism, and balance help create a great place to work and a great team who is enthusiastic to work with you on all your projects.

Summary of the role:

Reporting to the head of Inside Sales/Project Management, Inside Sales employees are responsible for ensuring the smooth flow of projects from start to finish. These duties include helping the engineering sales team with project acquisition, from take-offs, proposals, tender closings and follow-up negotiations; Project fulfilment, including coordinating with contractors, shop drawings, order entry, shipping, start up and warranty; Along with any other office duties that will improve the efficiency of the team.

Duties and responsibilities include but are not limited to:

- Participate in weekly inside sales/ project management meetings
- Ensures the Total HVAC Inc. safety policy guidelines are followed
- Maintain and update project files
- Develop project schedules and oversee the maintenance, progress, and issuance of schedules
- Updating of spreadsheets and other essential information to maintain project documentation
- Fully understand the project scope and manage changes to the project scope, project schedule and project costs using appropriate verification techniques
- Ensure that all projects are delivered on-time, within scope and within budget
- Perform risk management to minimize project risks
- Address all relevant issues with the appropriate correspondence in a professional manner
- Meet budgetary objectives and adjust project constraints based on financial analysis with the assistance of the salesperson
- Invoicing done in an accurate and timely manner, according to the payment terms
- Liaison with architects, engineers, general contractors, subcontractors, and tradespersons
- Update job knowledge by studying new products and participating in educational opportunities
- Maintain and improve quality results by following standards and recommending improved policies and procedures
- Establish and maintain relationships with third parties/vendors, the clients, and all stakeholders
- Represent Total HVAC. in a professional and fair manner
- Other duties deemed appropriate



Competency requirements:

- Adaptable to change and Open Minded
- Customer Focused
- Continuous Learning
- Holds Self and Others Accountable
- Problem Solving
- Teamwork and Collaborative
- Values and Respects Others
- Strong Technical, Interpersonal, Organizational skills and Detail Oriented
- Excellent Decision-Making

Educational requirements:

- Degree or Diploma in Mechanical Engineering or a related field is considered an asset

Work experience requirements:

- 2-5 years of experience in a related field is considered an asset

Skills, abilities, and other requirements:

- Bilingualism is an asset
- A working understanding of HVAC systems, their purpose and function
- Must possess strong verbal, written, analytical, and persuasive skills and the ability to communicate and interact with all levels of customers, employees, and management
- Basic knowledge of building systems and their operation
- Basic knowledge of QuickBooks is an asset
- Construction scheduling, planning, and execution; Construction drawing analysis
- Basic AutoCAD knowledge
- Applicable local and provincial building codes; Previous construction site experience is an asset
- Demonstrated Understanding of scheduling, job costing and project tracking is an asset

Proficient user of:

- MS Office (Word, Excel, Outlook, PowerPoint, Teams)

Perks and Benefits

- Benefits Plan
- RRSP Matching program
- Profit sharing
- Cell phone allowance

Total HVAC welcomes and encourages applications from persons with disabilities. Accommodations are available upon request for candidates taking part in all aspects of the recruitment and selection process. Please forward resumes or questions to careers@totalhvac.com

Table-Top Display

If you're looking to communicate the value of your product, there is no better way than to invest in a table-top at an upcoming ASHRAE OVC meeting. Highly attended and highly regarded, our monthly meetings can afford you the opportunity to display your new technologies to an eager group of HVAC/R engineers and contractors. If you wish to review the themes of each meeting to find an appropriate topic, please feel free to contact me.



**Committee
Chair**
**Connor
Patterson**
2021-2022
OVC Table-Tops
JP2G

What better way to display a new product, existing line, or share great ideas than to have a table-top display at our local OVC ASHRAE meetings? The OVC meetings provide a captive audience in the industry and exposure to 40+ people. We are currently reserving table-top openings for the final ASHRAE meeting in May.

E-mail: connorp@jp2g.com

Please contact Connor Patterson (connorp@jp2g.com) to secure yours today! Cost for tabletops is \$225.00 and spaces are filling up quickly, so book your table-top today!

Payment is to be made through the online system prior to the date reserved. Follow the link below:
<https://ashraeottawa.simplesignup.ca/en/10165/index.php?m=eventSummary>

For this meeting, we have Total HVAC presenting a table-top, which is discussed further below.



Total HVAC works hard to help make our consulting and contracting customers lives easier by providing an unparalleled HVAC equipment purchasing experience. By putting your team first, we promote a culture of teamwork, professionalism, and engagement where everyone is valued. We professionally represent equipment manufacturers with exceptional sales support and accountability.

Our table-top for the May ASHRAE OVC monthly chapter meeting focuses on our offerings for COVID-19 solutions and mitigation. We proudly represent AAON, suppliers of semi-custom RTU's and AHU's. AAON has been at the forefront of providing air handling solutions to COVID hospitals and clinics, including 4-week lead times for Hôpital de Verdun RTU's. AAON units offer a wide variety of particulate and UV-C filtration options to ensure a clean hospital environment. Please see us at our table on May 17th to discuss more.



2022 Annual Meeting Proxy Form

PLEASE NOTE: IN ORDER TO PROXY, YOU MUST BE AN [ASHRAE SOCIETY MEMBER](#) OF GOOD STANDING AND PART OF THE [OTTAWA VALLEY CHAPTER](#). MEMBERS SHALL BE LIFETIME, ASSOCIATE AND MEMBERS. STUDENT AND AFFILIATE DO NOT QUALIFY.

I, _____
 PLEASE PRINT YOUR NAME HERE

AM A MEMBER OF GOOD STANDING OF THE ASHRAE OTTAWA VALLEY CHAPTER

I APPOINT THE PROXY NAMED HERE: _____

To appoint to the board please name: Celine Baribeau PRINT YOUR PROXY'S NAME

TO ATTEND AND VOTE ON MY BEHALF AT THE MAY 2022 ASHRAE OTTAWA VALLEY CHAPTER MEETING TO BE HELD ON MAY 17 , 2022.

DATED THIS _____ DAY OF _____ 2022

SIGNATURE: _____

I HEREBY INSTRUCT THE PROXY TO VOTE: (Check one box below)

<input type="checkbox"/>	In agreement to vote for the executive and board pre-filled in below listed below.
<input type="checkbox"/>	In agreement to vote for the modified write in list of the executive and board as filled in below.
<input type="checkbox"/>	To allow my proxy to vote on my behalf

	Executive	Write In	Board of Governors	Write In
President	Ryan Dickinson		Mike Swayne	
President Elect	Celine Baribeau		Matthew Moore	
Treasurer	Evans Mutua		Trevor Thomson	
Secretary	Jayson Bursill		Josh Bourbonniere	
Past President	Adrienne Mitani			

See May 2022 Communique for more information.

**PLEASE COMPLETE PROXY FORM AND RETURN BY EMAIL TO
info@ashrae.ottawa.on BY MAY 16, 2022**

**If you have any questions please contact President Adrienne Mitani at
president@ashrae.ottawa.on.ca**

CHECKED BY THE BOARD OF GOVERNORS ON MEETING DAY:

SIGNATURE: _____

Advertising

Advertising career opportunities on the **ASHRAE Ottawa Valley Website** makes good business sense. We offer a unique way to reach technical professionals and make your ad dollars work hard for you.

To discuss your needs, contact one of our chapter officers, via our "This Year" page. Increase the impact of your advertising through the **ASHRAE Ottawa Valley Website** today.

Rates for **career opportunities** ads are as follows:

Chapter Member:

\$50/month

\$80/2 months

\$100/3 months

Non-member:

\$250/month

Note: Purchase of additional months will only have a discounted rate if purchased up front. Otherwise the standard rate will apply for additional months.

Placement of an Ad

We suggest that you complete and submit our advertisement form to speed up the processing of your request. If you have provided your e-mail address, a confirmation receipt e-mail will be sent to you for reference.

Please note that ads require prepayment made to the treasurer. Please register and pay through the online system and contact **Celine Baribeau** (cbaribeau@bpa.ca) with any questions. Follow the link below for payment.

The ads will appear on the website until the end date for publication provided in the submitted form. To extend the ad, please resubmit the form with the new publication dates and the required prepayment amounts.

Link:

<https://ashraeottawa.simplesignup.ca/en/9709/index.php?m=eventSummary>

Business Card Ads

You can support your chapter and promote your business by placing your business card in the Capital Communiqué. It will also appear on the chapter website.

The cost is **\$275.00** for the year. Please contact **Rod Lancefield** at rod.lancefield@hts.com for more details.

Payment will be made through the online system. Follow the link below for payment.

<https://ashraeottawa.simplesignup.ca/en/9711/index.php?m=eventSummary>

Ads will **now require prepayment**. All last year's ads will appear in the Communiqué for the first month of this year to allow time for payment for the upcoming year. Ads will be refreshed accordingly in the second Communiqué.



E-mail: cbaribeau@bpa.ca

Treasurer

Celine Baribeau

2021-2022

OVC Treasurer

BPA



E-mail: rod.lancefield@hts.com

Publicity

Rod Lancefield

2020-2021

OVC Publicity

Committee Co-Chair

HTS Engineering Ltd.

2021-2022

President

Adrienne Mitani

President-Elect

Ryan Dickinson

Treasurer

Celine Baribeau

Secretary

Evans Mutua

Governors

Joe Della Valle

Mike Swayne

Joel Primeau

Matt Moore

Trevor Thomson

Past President

Joël Primeau

Committees

Attendance

Sandy Taylor

Audit

Joel Primeau

Capital

Communiqué

Pat Melville

CRC

Jayson Bursill

Donald Weekes

Connor Ruprecht

CTTC

Elizabeth Primeau

GAC

Ryan Dickinson

Financial

Sandy Taylor

Greeter

Mike Swayne

History

Zacharie Lanthier

Membership

Josh Bourbonniere

Nominations &

Awards

Steve Moons

Abbey Saunders

PAOE

Ryan Dickinson

Program

Elizabeth Primeau

Publicity

Samir Elchamaa

Research

Joël Primeau

Special Events

Colleen Fox

Rod Lancefield

Abbey Saunders

Trevor Thomson

Student Activities

Noah Goddard

Tabletop

Connor Patterson

YEA

Jeremy Strong

Website

Samir Elchamaa