



DATE: Tuesday April 20, 2021
1600 - 1730 Hrs EST

LOCATION: Zoom Webinar

PROGRAM: Advances in Technology and the AEC Industry

DESCRIPTION:

Technology changes and advances literally every day; and, just in the last generation, these advances have completely transformed the way buildings are designed, constructed, and operated. This program will look at some of the history of advances in technology and how these advances have changed the AEC industry. The program will also discuss how new technologies will affect the future of our industry.

Learning Objectives:

- Discover the Technology Curve
- Review the History of Technology & Technology Life Changers
- Look at Current Trends and How They Have Affected Our Industry
- Explore What the Future Might Look Like

SPEAKER: Thomas Phoenix, Principal, CPL Architects and Engineers

Thomas Phoenix is a Principal with the Architectural/Engineering firm of CPL Architects and Engineers at their office in Greensboro, NC, USA. He has a B.S. degree in engineering from NC State University. He is a Registered Professional Engineer in North Carolina and six other States and has over 30 years of experience in the design, operation, and maintenance of building mechanical systems.

Mr. Phoenix has been an active member of ASHRAE (American Society of Heating, Refrigerating and Air Conditioning Engineers) since 1982, and was elevated to the grade of Fellow in 2011. He is an ASHRAE Presidential Member, having served as Society President in 2014-15. He previously served terms on ASHRAE's Board of Directors as Society Treasurer, Society Vice President, as a Director at Large, and as Director and Regional Chairman of Region IV.

Mr. Phoenix currently serves as Chair of the Advanced Energy Design Guides Steering Committee, and as Co-Chair of the new ASHRAE Task Force for Building Decarbonization. He also currently serves on the National Institute of Building Sciences (NIBS) Board of Directors as their Treasurer.

Please register online at the link below

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

<https://ashraeottawa.simplesignup.ca/en/8589/index.php?m=eventSummary>

President's Message

Greetings, and welcome to April. Wonderful to be able to feel the freshness of spring, or at least the melting of snow... It brings such joy, and the promise of more projects to work on!

For those of you who aren't familiar, in 2018-2019 ASHRAE put together a new strategic plan to aid in guiding the direction of ASHRAE through 2024. There are a series of initiatives that were introduced and qualified, as a means to ensuring the continued growth and viability of the organization. There were modifications to the mission and vision, but the values of ASHRAE continue to be Excellence, Commitment, Integrity, Collaboration, Diversity and Volunteerism. The various elements to this plan were worked on extensively by a large, and diverse collective. Ultimately, there were three goals that were identified. Ensure that ASHRAE is the most knowledgeable resource for sustainable, high-performance built environments; that we maximize the value and engagement for our membership, and that optimize our organization to ensure peak performance.

We find ourselves midway through the implementation. For you baseball aficionados, there is something called a 'curveball'. It lets us know that we must remain agile and able to adapt. While elements of the plan have needed to be modified in the past year, for the purposes of implementation, the intent remains. ASHRAE is continuing to find ways to grow and advance, as it has through many challenges.

From the grass-roots up, ASHRAE has been a determined organization. From the efforts and insights of those who are deeply entrenched in the industry, this global collaborative has continued to thrive.

We, in the Ottawa Valley Chapter, are fortunate to have the opportunities that we do. The chance to be a part of such a rich and vibrant chapter. A chapter that has played an integral role in growing the future of ASHRAE, and the furtherance of pursuing a healthy world.



President
Adam Moons
 2020-2021
 OVC President
Master Group

E-mail: amoons@master.ca

It will be important, especially in the current climate, for all of our membership to recognize how valuable their impressions are; their thought. For us to continue to be as valued and respected, we must endeavor to continue to earn that respect and trust. The best manner for this is continued involvement and feedback. Give your representatives those words they need to be the best voice to allow you the best experience and value as a part of ASHRAE, and to afford that same experience to 55,000 professionals around the world.

As always, our board and executive are available for the thoughts and insights that might make your ASHRAE involvement most relevant and rewarding.

Wishing you a great month!

Adam

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What You Missed

The sixth program meeting of the 2020/2021 ASHRAE season was held on March 16, 2021 via the virtual platform Zoom. The theme for the meeting was Student Activity. The meeting had 59 registered attendees. The program for the evening was Heritage Conservation, Energy Efficiency and Health & Wellbeing – Can They All Co-Exist?, presented by Afaf Azzouz and Larissa ide.

Before the program meeting, a technical session was hosted by Joel Primeau. Joel started by noting that HVAC engineers are basically in the “comfort” business. Most of our buildings are intended for human occupancy, and we are frequently being asked to address issues of comfort in facilities we designed, operate, maintain or own. ASHRAE Standard 55 is a wonderful source of information regarding comfort that goes beyond temperature and relative humidity.

Thermal comfort is a very subjective thing. Thermal comfort is important because it is directly related to occupant satisfaction and productivity. 75% of all occupant complaints within buildings are thermal comfort related. The thermal environment has been shown to have up to a 10% effect on worker productivity.

Joel described the scope of ASHRAE standard 55. All the criteria are meant to be applied together. There are six primary factors that affect thermal comfort: Metabolic rate and clothing insulation which are characteristics of the occupants. Air temperature, Radiant temperature, air speed and humidity which are characteristics of the thermal environment.

Our body is most effective in fighting disease and bacteria in humidity levels between 40-50% RH. As per ASHRAE 55, space conditions are considered acceptable if at least 80% of the occupant are comfortable

President Adam Moons welcomed everyone and started the Webinar for the business session and main program topic. He thanked Joel Primeau for hosting a Tech session before the meeting.

President Adam Moons introduced the Executive and Board of Governors and past President. Adam indicated that the theme of the meeting is student activity.

President Adam Moons introduced two new members



Secretary
Celine Baribeau
2020-2021
OVC Secretary
BPA

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that joined our Chapter since the last program meeting on behalf of Membership Promotion Chair Josh Bourbonniere. Adam then indicated that member may be reached out by the Research Promotion team in the new few weeks for contributions to the research promotion campaign.

President Adam Moons the introduced CTTC Chair Elizabeth Primeau. Elizabeth indicated that members still have time to apply for awards. Both the short and long form versions are available on the OVC website and also on the ASHRAE.org website. Elizabeth then followed with a few housekeeping items regarding the webinar. The attendees were reminded of the survey which will be emailed after the meeting. CTTC Chair Elizabeth Primeau announced the program topic for the evening, Heritage Conservation, Energy Efficiency and Health & Wellbeing – Can They All Co-Exist?, and introduced the speakers, Afaf Azzouz and Larissa ide.

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<p>Longhill Energy</p> <p>Chris Harrison President</p> <p>chrish@longhill.ca Phone and cell option 513-226-3856 ext. 24 Fax: 613-226-2715 124 Reis Rd., Ottawa, Ontario K0A 1L0 www.longhill.ca</p> <p>The Energy Conservation People</p>	<p>Master</p> <p>AIR CONDITIONING REFRIGERATION VENTILATION HEATING</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 MASTER.CA</p>	<p>MCKEE ENGINEERING</p> <p>Sylvain Chenier, P.Eng., ing. Associate Partner – Mechanical Sylvain.Chenier@mckeeottawa.ca</p> <p>1785 Woodward Drive Ottawa, ON K2C 0P9 CANADA Tel.: (613) 723-9585 x128 Fax.: (613) 723-9584 www.mckeeottawa.ca</p>

Afaf Azzouz, P.Eng., is an Associate, Buildings Performance Engineer at Stantec. She is a Building Energy Modeling Professional, a published journal author and has a Masters' degree in Sustainable Buildings. Afaf has an in-depth understanding of energy modeling, Net-Zero buildings, embodied carbon, and lifecycle costing assessments. Afaf won both the CaGBC's Ontario and Canada-wide Emerging Green Leader Awards. Her key projects include nine Carbon Neutral Concept Designs for heritage and non-heritage buildings in Ottawa.

Larissa Ide, E.I.T., is a building performance consultant at Stantec. She has a Master's degree on deep energy retrofits and sustainability of conserving heritage buildings. Her work entails conducting complex hygrothermal analyses for federal heritage buildings, including East Block Parliamentary Precinct and Cartier Square Drill Hall, to assess the moisture content and risk of condensation within existing envelopes.

Afaf started the presentation by talking about the challenges with working with heritage buildings. The main challenges are the lengthy approvals through FBRO or the heritage board if it's a government building, the poor envelope, the inefficient system and usually these buildings are located in dense urban settings. However, there are many opportunities as well which promote the major renovations of these buildings.

Afaf explained the history behind the first sustainable buildings. Building efficiencies was derived mostly on the shortage of fuel.

Then Larissa continued by talking about the required integrated design process, for carbon neutral design studies and to lower building energy. In Heritage buildings, she indicated that the best mechanical system design occur when the systems cannot be seen or recognized. Which is called invisible sustainability. The HVAC systems are usually more hidden in heritage building to highlight more the heritage aspect.

Larissa continued explaining different possibility for building envelope, such as:

- Resealing of leaky envelope through spray applied air barrier
- IGY replacement/addition
- Whole window replacement (triple-glazing)
- Attic insulation
- Interior wall insulation
- Cavity wall insulation
- Double-skin façade in front of existing cladding
- Close off courtyard and turn them into atria

She noted that especially for heritage buildings it is important that each measure are reversible.

Afaf continued the presentation talking about the approach on the Systems side. She talked

about the Postal Station B major retrofit and the Confederation Building in Ottawa.

Here are some of the things can be done for a heritage retrofit:

- Limiting upgrades to mechanical rooms
- Utilize existing architectural features for passive strategies
- Re-purpose existing courtyards and build a geo-exchange system below them
- Asbestos remediation if there are any

In heritage building, many challenges arise since you usually need to work with existing structure, duct risers, etc

Other sustainability such as waste and water are also "invisible" and very much achievable.

Afaf then finished by listing some lessons learned. She noted the importance to consider the reversibility of implementation. And to complete envelope updates first, in order to minimize the total energy loss through the building envelope.

President Adam Moons thanked speakers Afaf and Larissa, ended the webinar at 17:06 with closing remarks and reminded attendees of the survey which will be emailed. The next meeting is scheduled for Tuesday, April 20th.

Membership Update

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

- Tyler Crawford
- Frederick Dionne

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 in your local ASHRAE chapter during these times.

Looking forward to seeing everyone at the next ASHRAE virtual meeting in April.



Membership Promotion

Josh Bourbonniere
2020-2021
OVC Membership Committee Chair

E-mail: josh.bourbonniere@trane.com

Call For Volunteers

As chairs of the Awards & Nominations Committee, Abbey Saunders and I want to address the members of ASHRAE OVC for the upcoming nominations period. The nomination committee is responsible to build the chapter leadership of tomorrow. We help to shape the direction of the chapter, in that we try to ensure the very best people are in position to advance our local chapter and respond to the needs of its members.

Typically at the April meeting we announce next year's Executive, Board of Governors, and

Committee Chairs. While we have many positions filled, as of this writing, we are still determining some key positions, notably the Secretary position and Governors.

This past year has been a tremendously challenging one for everyone, and this extends to the ASHRAE OVC. I would like to ask that anyone who is able to volunteer to help at the board level to please contact me directly to discuss what positions are available. As I'm sure many of you do, I'm hoping for a return to a normal chapter year starting September 2021. To keep our



Past President
Steve Moons
2014-2015
OVC President
Total HVAC

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chapter strong, we need volunteers to help organize and put in the work. Now more than ever, the chapter needs your support. I hope to be able to introduce the new leadership of our chapter at the May meeting with all positions filled. Thanks very much.

Student Activities

We have successfully completed the first region-wide career virtual career fair on Tuesday, February 23rd 2021. This online career fair provided a unique opportunity for local employers to recruit individuals from Southern Ontario to

the Atlantic Ocean. It is confirmed that we had 8 companies and 70+ students in attendance from the Ottawa Valley.

Thanks to everyone that attended and helped with coordination!



Student Activities
Jayson Bursill
2020-2021
OVC Student Activities Chair
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<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: 800-668-8478 frank@tamcodampers.com www.tamcodampers.com</p> <p>TAMCO locations in Ottawa, Ontario and Nashville, Tennessee</p>	 <p>Steve Moons Principal</p> <p>Total HVAC Inc 4A - 1050 Baxter Road Ottawa, Ontario, Canada K2C 3P1 Tel.: 613-723-4611 Fax: 613-723-4677 stevem@totalhvac.com Web: www.totalhvac.com</p>
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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.

Canadian Energy Efficiency Training Opportunities

Efficiency Canada has compiled a database of online training opportunities in energy efficiency, which will be expanding over the course of the summer and into the fall. Now is a great time to plan ahead for what the workforce might look like for the year, and to upgrade or learn new skills in our sector. You can browse courses, including those from ASHRAE [here](#).

ASHRAE Hellenic Chapter Webinar on Building Energy Performance in Greece

On April 14, the ASHRAE Hellenic chapter is hosting a webinar on Building Energy Performance Certificates. The webinar will provide information on European Energy Performance Certificates (EPC) and ASHRAE Building Energy Quotient (BEQ) program. The current status and future plans will be presented by European Union officer Mr. P. Garcia and the Chair of ASHRAE's BEQ committee, Mr. J. Constantinide. Dr. M. Petroliaiki from the Ministry of Environment and Energy will present statistics and outcomes from the first 10 years of EPC presence in Greece. An open discussion will follow on lessons learned and how the two approaches can interact. For more information please click [here](#).



President-Elect
Adrienne Mitani
2020-2021
OVC GAC Chair
Smith+Andersen

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New Report Available on Net Zero Carbon Cities

The World Economic Forum's Net Zero Carbon Cities Program has issued a new white paper regarding a global framework and integrated energy approach, defined as "systemic efficiency," as a solution to the climate crisis. Systemic efficiency encompasses clean electrification, smart digital technology, and efficient buildings and infrastructure, along with a circular economy approach to water, waste and materials. Cities currently cover 3% of the earth's land surface but create more than 70% of all carbon emissions. The full report can be found [here](#).

News Update

ATLANTA (March 18, 2021) – ASHRAE and IAPMO to Co-Publish Water Efficiency Document

ASHRAE and the International Association of Plumbing and Mechanical Officials (IAPMO) announced an agreement to co-publish a document to address water efficiency in buildings.

The comprehensive document will combine ASHRAE 191P, Standard for the Efficient Use of Water in Building Mechanical Systems, along with WE-Stand™, IAPMO's Water Efficiency and Sanitation Standard, to offer complimentary water efficiency guidance and references in one publication. ASHRAE 191P provides minimum requirements for the design of building mechanical systems that limit the volume of water required to operate HVAC systems. WE-Stand™ focuses on achieving safe and efficient water use in both residential and non-residential buildings.

"Water efficiency and energy conservation are major considerations in the design and operation of HVAC systems in high performance buildings," said 2020-21 ASHRAE President Charles E. Gullledge III, P.E. "Escalating costs and concerns regarding availability have brought much needed attention to the issue of water use in the built environment. We are pleased to collaborate with IAPMO to provide a balanced resource to the water energy nexus as the demand for sustainable strategies grow."

"We're excited to coordinate our development efforts on WE-Stand™ with ASHRAE's 191P Committee," said Dan Cole, senior director of technical services and WE-Stand™ Secretariat. "With the development cycle for 2020 now finalized, we will look forward to ensuring that both standards eliminate any conflicts toward achieving high levels of water



CTTC Chair Promotion
Elizabeth Primeau
2020-2021
OVC CTTC Chair
Total HVAC

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efficiency for both mechanical and premise plumbing systems."

The co-published document will be available upon the conclusion of the 2023 WE-Stand™ development process, which is on a three-year cycle.

ATLANTA (March 8, 2021) New ASHRAE Course Offered on Reopening Universities and Managing HVAC Systems

ASHRAE is offering a new course to address the vulnerabilities in the design, construction, installation, operation, and maintenance of HVAC systems in universities exposed by the pandemic.

The online instructor-led training course, Reopening Universities: Managing HVAC Systems to Mitigate the Spread of SARS-Cov-2, expounds on COVID-19 resources on reopening universities and office building, compiled ASHRAE's Epidemic Task Force and made available through [ashrae.org/COVID19](https://www.ashrae.org/COVID19). The course also provides guidance on creating a Building Readiness Plan for HVAC systems for the two building types and offers an explanation of specific mitigation strategies.

"As the world considers when and how to reopen universities, confronting how to become conscious of the required transformations of buildings and their HVAC systems will become a greater priority," said 2020-21 ASHRAE President Charles E. Gullledge III, P.E. "This course will offer actionable steps for developing specialized best practices based on guidance from ASHRAE's Epidemic Task Force and the unique needs of individual universities."

The three-hour course is designed for college and university owners, facility managers, and resiliency planning teams.

The price of the course is \$299 (\$224 ASHRAE Member). Certificates of completion will be available for download for the successfully completed course.

ATLANTA (March 3, 2021) ASHRAE Forms Task Force for Building Decarbonization

ASHRAE recently formed a task force to address climate change through responsible decarbonization strategies for the built environment.

The ASHRAE Task Force for Building Decarbonization (TFBD) has been established to develop technical resources and provide leadership and guidance in mitigating the negative carbon impact of buildings on the environment and the inhabitants of our planet.

"In a similar vein to how ASHRAE took the lead in responding to the energy crisis of the 1970s era and defined the energy efficiency journey, ASHRAE has much to offer with respect to paths for responsible decarbonization strategies," said 2020-21 ASHRAE President Charles E. Gullledge III, P.E., HBDP. "The challenges of decarbonization are complex, but this task force is positioned to offer actionable technical guidance to improve how building are built and operated."

The specific responsibilities of the task force include:

- Providing recommendations and practices for industry stakeholders in decarbonization of the built environment.
- Defining the objectives of this holistic initiative; including, but not limited to:
 - o Developing a framework for characterizing the issues related to decarbonization.
 - o Identifying existing portfolio of ASHRAE technical resources on issues relating to decarbonization, and package them in a way useful to policy makers and stakeholders.

- o Identifying and quantifying knowledge gaps for policy makers and stakeholders who are tackling building decarbonization and develop resources to address these gaps.

- Formulating a value proposition statement as to why ASHRAE is embarking on this journey.
- Identifying the global audience related to this initiative.
- Establishing guiding principles that frame this journey.
- Objectively framing the issues associated with this initiative.

Research Promotion

Thank you to our donors, we are getting many first time voters donating when attending the meeting, thank you to all and welcome to the new direct donors! Thank you for all of your continued support of the ASHRAE Research Canada. All of the money donated to ASHRAE research goes back to the support of our community, and you can control exactly where that goes.

Thank you to the RP Campaign Committee for volunteering their time, , we are changing up our team for the remainder of the year with Joel Primeau taking the RP Chair position, and Adrienne Mitani will remain on the committee.

A special thank you goes out to SK Sheet Metal and Climate Works for their donations this month.

The Ottawa Valley Chapter has raised \$13,575.00 of our goal is \$37,700 and we are confident that our chapter and committee can achieve this committee. The Society RP campaign raises over \$2.2 million each year from over 6,000 donors.

The following list of current 2020-2021 RP Campaign donors will be provided in each monthly newsletter and updated monthly on the website, so donate quickly to see you name appear! The easiest ways to donate to the RP Campaign are through the links below.



President-Elect
Adrienne Mitani
 2020-2021
 OVC Research
 Promotion Chair
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Or a cheque can be sent made payable to ASHRAE Ottawa Valley Chapter, please contact Joel or Adrienne if you would like to make any arrangements for sending a check.



ASHRAE Partner \$5,000-\$9,999	ASHRAE Associate \$2,500-\$4,999	Major Donor Silver \$1,000-\$2,499
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Special Thank-You to the following Donors for their contribution David Michelin, Chris Brown, Ross McLaren, Neil Armstrong, Andrew Klassen, Dave Merrick, Carolyn Kerr		

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

ASHRAE OVC link: <https://ashraeottawa.simplesignup.ca/en/6567/index.php?m=eventSummary>

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

Venting/ Draft Control 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 almost 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 with a great team.

Summary of the Role:

Reporting to the head of Venting/Draft Control, Venting/Draft Control employees are responsible for ensuring the smooth flow of projects from start to finish. These duties include helping the Venting/Draft Control sales team with project acquisition, from take-offs, proposals, tender closings, and follow-up negotiations; project fulfilment, including coordinating with contractors, shop drawings, site measurement, order entry and shipping, 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 Venting/Draft Control team meetings.
- Ensures the Total HVAC Inc. safety policy guidelines are followed.
- Develop relationships with key customer accounts and other sales related duties.
- Maintain and update electronic project files.
- Updating of spreadsheets and other essential information to maintain comprehensive 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.
- Address all relevant issues with the appropriate correspondence in a professional manner.
- Attend site meetings and perform site measurements and site co-ordination.
- Meet budgetary objectives and adjust project constraints based on financial analysis with the assistance of the head of Venting/Draft Control.
- Manage warehouse venting inventory, cleanliness, organization, and customer service.
- Invoice in an accurate and timely manner, according to the payment terms.
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Competency Requirements:

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- Customer Focused
- Professional Development
- Holds Self and Others Accountable
- Problem Solving
- Teamwork and Collaboration
- Values and Respects Others
- Well Organized and Detail Oriented
- Excellent Communicator and Decision-Maker

Educational Requirements:

- Diploma in a related field is considered an asset
- G2 gas license considered an asset

Work Experience Requirements:

- 1-3 years of experience in a related field is considered an asset

Skills, Abilities, and Other Requirements:

- French/English bilingualism an asset
- Must possess strong verbal, written, analytical, and persuasive skills and the ability to communicate and interact with all levels of customers, employees, and management
- A working understanding of HVAC systems, their purpose and function is an asset
- Basic knowledge of building systems and their operation
- Basic knowledge of QuickBooks and Inflow Inventory System is an asset
- Construction scheduling, planning, and execution
- Construction drawing analysis
- Knowledge of applicable local and provincial building codes is an asset
- Must have strong technical, interpersonal, and organizational skills
- Previous construction site experience is an asset
- Demonstrated understanding of scheduling, job costing and project tracking is an asset
- Must have a valid driver's license and a vehicle

Proficient user of:

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

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.

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 **Ryan Dickinson** (ryand@vreng.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/6568/index.php?m=eventSummary>



E-mail: ryand@vreng.ca

Treasurer

Ryan Dickinson

2020-2021

OVC Treasurer

V&R Engineering

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 \$250.00 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/6570/index.php?m=eventSummary>

Ads will **now require prepayment**. All of 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.

Publicity

2020-2021 Publicity Committee Co-Chair

HTS Engineering Ltd.

E-mail: rod.lancefield@hts.com



E-mail: rod.lancefield@hts.com

Publicity

Rod Lancefield

2020-2021

OVC Publicity

Committee Co-Chair

HTS Engineering Ltd.

2020-2021

President

Adam Moons

President-Elect

Adrienne Mitani

Treasurer

Ryan Dickinson

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Joe Della Valle

Mike Swayne

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Audit

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Evans Mutua

CRC

Evans Mutua

Donald Weekes

CTTC

Elizabeth Primeau

GAC

Adrienne Mitani

Financial

Sandy Taylor

Greeter

Mike Swayne

History

Zachary Lanthier

Membership

Promotion

Josh Bourbonniere

Nominations &

Awards

Steve Moons

Abbey Saunders

PAOE

Adam Moons

Program

Zarna Kakadiya

Publicity

Samir Elchomaa

Research

Promotion

Adrienne Mitani

Special Events

Colleen Fox

Rod Lancefield

Adam Moons

Adam Graham

Student Activities

Jayson Bursill

Table Top

David Michelin

YEA

Jordan Hansen

Website

Ryan Dickinson