



# Ottawa Valley Chapter

**DATE:** Tuesday September 18, 2018  
Social: 17:30, Dinner: 18:30, Program: 20:00

**LOCATION:** Lago Bar & Grill - Dow's Lake Pavillion  
1001 Queen Elizabeth Dr, Ottawa, ON K1S 5K7

**THEME:** Membership

**PROGRAM:** ASHRAE - How You Can Get Involved

**ASHRAE** looks to leaders like you to help us develop the technology that enables high performance for the life of buildings and systems. We depend on your practical experience and knowledge base to help us become better prepared and more marketable for the growing industry.

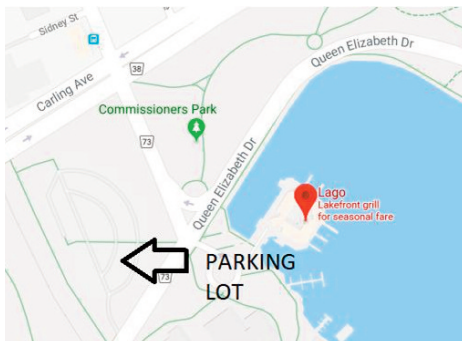
Becoming involved with **ASHRAE** provides you with a single resource for keeping up with technical advances in the industry. By joining, you gain direct access to new technology; universally recognized technical information; and you influence the direction of the built environment.

Below are a few ways in which you can get more involved with **ASHRAE**. Presentation Topics will include:

**ASHRAE Bio, Chapter Level, Regional Level, Technical Committees, Standards Committee, Standing Committees, Commenting Opportunities, Conference Presentations, Publication & Handbooks Development**

**SPEAKER:** Erich Binder

**Erich Binder** is an **independent engineering consultant** with extensive experience in the sustainable design of Commercial, Institutional, Industrial & Cold Climate Heating, Ventilation & Air Conditioning (HVAC), Plumbing, Fire Suppression & Specialty Mechanical Systems. **Erich** is also a **Certified Risk Manager** with over 20 years of Process Safety, Loss Prevention, Industrial Hygiene, Health & Safety Engineering and Auditing experience, including Corporate Emergency Response and Merger and Acquisition Activities.



Education and certifications include:

- **Registered Engineering Technologist, RET, Alberta Society of Engineering Technologists (ASET)**
- **Southern Alberta Polytechnic (SAIT), Air Conditioning Engineering Technology Diploma**

**Space is limited so please register online at the link below**

Chapter Members: \$48.00	Guests: \$65.00
Student Members: \$35.00	Life or Fellow: \$48.00
Past President: \$0.00	Past President Companion: \$0.00

<https://ashraeottawa.simplesignup.ca/en/3349/index.php?m=eventSummary>

- **SAIT Polytechnic, Registered Instructor**
- **Certified Risk Manager, CRM, Risk Insurance Management Society (RIMS)**
- **Refrigeration Services Engineers Society Certificate, HVAC and Building Automation Controls**
- **Decision & Risk Analysis & Value Engineering Certification**

**Erich** has extensive experience engineering **mechanical systems** for a variety of **cold climate applications**. These include **Oil & Gas** projects including developing **HVAC** standards and engineering for numerous process facilities for Oil Sands, SAGD and Mining Projects, Gas Processing, Metering Compression and Pipeline facilities, Upstream, Mid Stream, Down Stream Facilities. **Erich Binder** has engineered **HVAC** systems for various support facilities for various Industrial projects including Control Buildings, E-House, VFD and Data Storage Facilities, Maintenance, Storage and Emergency Response Facilities. He has extensive experience in **Power Generation facilities**, including Coal, Natural Gas, Waste Heat, Waste Wood, Run of the River and Combined Heat Power Systems.

**Erich** specializes in Hazardous Spaces and Environments, Laboratory, Sampling Stations, Hazardous Environment, Dust, Mist and Fume collection systems, Industrial Hygiene facilities.

**Erich Binder** has worked as a **Risk Analyst & Loss Prevention Consultant** providing input into corporate insurance placement, managed Boiler Machinery, Construction Project Losses, Claims and Loss Prevention issues. He has provided support to Insurance Brokers and Insurance company representatives to review and investigate the cause of failures relating to Power, Natural gas Mid-Stream, Compression, Metering and Pipeline machinery and fire explosion related failures. **Erich** coordinated Risk and Loss Prevention Audits and inspections for all corporate facilities. A key member of corporate Emergency Response Team and key leaders in Responsible Care, **ISO9000**, Merger & Acquisition programs.

Erich Binder is:

- **Society Director at Large - ASHRAE**
- **Past Society and Regional Chair - ASHRAE Region XI**
- **Chairman - ASHRAE Cold Climate Design Conference**
- **Co-Author - ASHRAE Cold Climate Building Design Guide**
- **Co-Author - ASHRAE Hazardous Spaces Design Guide (Publication Pending)**
- **Author - Industrial HVAC Design Guide - Basics of Industrial HVAC - 101**
- **Past Coordinator - ASHRAE**
- **Distinguished Lecturer Program**
- **Past Chairman - HVAC Advisory Committee (SAIT)**
- **Co-developer - 2 month HVAC Certificate Program**
- **Instructor - Part Time HVAC related topics (SAIT)**
- **Board EXO - Young Engineers in ASHRAE Committee**
- **Board EXO - ASHRAE Student Activities Committee**
- **Board EXO - ASHRAE Members Council Vice Chairman ASHRAE Development Committee**
- **Chairman ASHRAE Audit Committee Member: ASHRAE TC 5.8 Industrial Ventilation (Combined with TC 9.2) Member: ASHRAE TC 9.2 Industrial Air Conditioning**
- **Chairman: ASHRAE TRG9-CCBDG-Cold Climate Building Design Guide**
- **Member: ASHRAE MTG-ACR - Air Change Rate**
- **Chairman: Chelonian Loss Prevention Engineering Seminar**



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# President's Message

With the 2018-19 **ASHRAE** season underway I would like to begin by thanking the team of **volunteers** who have been working hard over the summer to put together a solid program filled with informative **technical content** as well as **enjoyable** and **social** networking opportunities.

We are excited to kick-off the first program meeting at **Lago**. Our theme this month is **Membership** and we are excited to have **Erich Binder** join us from **Alberta**. **Erich** is an **ASHRAE Distinguished Lecturer** and has been involved with **ASHRAE** for much of his career.

We have a very strong team of **volunteers** that continue to work hard to ensure the year is a success but we are always looking for more people to get involved. Volunteering with **ASHRAE** is an incredible way to give back to our community, build **technical skills** and to develop strong **networking skills**. Please do not hesitate to contact myself, or any member of the Executive or the **BOG** to get involved.

Thank you and I look forward to seeing you soon!



**President**  
**Daniel Redmond**  
2018-2019  
OVC President  
**Carleton**  
**University**

E-mail: [daniel.redmond@carleton.ca](mailto:daniel.redmond@carleton.ca)

## CRC Wrap Up

The 2018 **Region II Chapter Regional Conference (CRC)** was hosted this year by the **ASHRAE Windsor Chapter** in **Windsor, Ontario** between August 24th and 26th. The **CRC** is a meeting of the chapters within the region to discuss regional business as well as to meet and collaborate on **ASHRAE** matters. Region II includes all Canadian **ASHRAE** chapters East of **Manitoba** and each chapter sends representatives to ensure a productive conference.

This year, the following people were present to represent the Ottawa Valley Chapter:

- **Daniel Redmond** (President and CRC Delegate)
- **Aaron Dobson** (President-Elect, CRC Alternate and Research Promotion Chair)
- **Adrienne Mitani** (Secretary and

- GAC Co-Chair)
- **Jacob Hough** (Governor and CTTC Chair)
- **James Pady** (CTTC Program Chair)
- **Ryan Dickinson** (Chapter Historian and ECC Chair)
- **Elizabeth Primeau** (Student Activities Chair)
- **Andrew Brown** (Membership Promotion Chair)
- **Jordan Hansen** (YEA Chair)

**Darryl Boyce** from the **Ottawa Valley Chapter** was also present representing **ASHRAE Society** as the 2018-19 **President-Elect**.

The **CRC** included very full days of **meetings** and **workshops** to review, discuss and facilitate improvements to chapter and regional operations. **The Ottawa Valley Chapter** was presented with several awards to celebrate our successes in the 2017-18 year,

including:

- **PAOE Honour Roll**, CRC and meeting attendance
- **Special citation** for significant improvement in **membership, attendance, research, education, chapter programs** and **technology**
- **Research Promotion Goal, High-Five Chevron, Challenge Goal** and **Full Circle Chevron**
- **Hayward Murrays Region II Research Promotion Award**

While the event was focused on the business and operations side of **ASHRAE**, the attendees did also have some time to relax and get to know the other **ASHRAE** volunteers during the **Friday** and **Saturday** evening **social events**.

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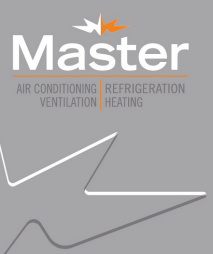
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# 2018-2019 Research Promotion Campaign



**President**  
**Daniel Redmond**  
 2018-2019  
 OVC President  
**Carleton**  
**University**

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Thank you very much for your continued support of **ASHRAE Research Canada!**

Many of you are aware that ASHRAE research plays an important role in our everyday lives. Our built environment including everything from our homes, offices and hospitals to quality of food and living conditions in airplanes are dependent upon the research conducted by ASHRAE to keep people healthy and comfortable. Every dollar raised by **ASHRAE Research Canada** stays in Canada to further research in the HVAC&R industry. Furthermore, for every dollar raised,

two to three dollars are invested in research, here in Canada.

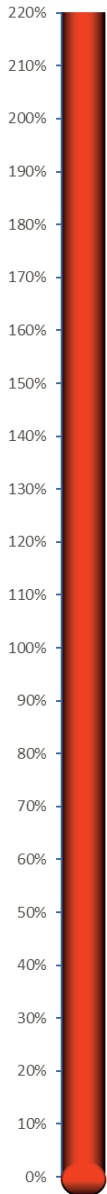
Thanks to the dedication of our donors and the efforts of the **2017-2018 RP Campaign Team**, the **Ottawa Valley Chapter** has raised **121%** of our total goal of **\$30,100** for **2017-2018**. A total of **\$36,517** was raised for **Research Promotion**. Thank you very much for all of your support!!!

In addition to the amount raised the chapter was able to **fully fund the scholarship** that we have been working towards over the past **two years**. The remaining amount of **\$30,000** was sent to **Society in May**. The money submitted to the scholarship counts towards our **Research Promotion** goal and takes our **total amount raised** to **\$66,517, or 221% of the goal!**

We are excited that we will be in a position to start awarding an **annual scholarship to students beginning next year!**

At the **May** Program Meeting, **four tickets** to see the **Ottawa Redblacks** were graciously donated by **InAir Environmental** and **\$520.00** was raised towards this year's campaign. Thank you very much **InAir Environmental** for your support!

Thank you very much to our **2017-2018 RP Campaign donors.**



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# Membership Update

Greetings everyone,

Another **ASHRAE** season is almost upon us with the first meeting less than three weeks away.

This year I attended my first **CRC**, which was a fantastic experience. One question I was asked that really resonated with me was; why do I **ASHRAE**? Everyone has their own reasoning and I implore you to answer this question for yourself. Further to that, I challenge you to share this message with your colleagues and fellow professionals

The **Ottawa Valley Chapter** has a record of excellence second to none with so much to offer our **members**. Here's to another great year with much growth.

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

- **Nitin Bhardwaj**
- **Miranda L Bundgard**
- **Shawn Curtis Pattimore**
- **Thomas Robert Manser**
- **Tripath Pal Singh**
- **Mathieu Latouche**
- **Clinton Agriesti**



## Membership Promotion

**Andrew Brown**

2018-2019  
OVC Membership Committee  
**Master Group**

E-mail: [aabrown@master.ca](mailto:aabrown@master.ca)

- **Ahmed Osman Kamel**
- **Maira V Lucca**
- **Thomas Vincent Hinke**
- **Hema Murty**
- **Graham Campbell Houze**

Thank you.

# News Update

## ASHRAE Announces Student Design Competition Winners

**ATLANTA (Aug.2, 2018)** – **ASHRAE** announced the winners of its **2018 ASHRAE Student Design Competition** and **Setty Family Foundation Applied Engineering Challenge**. The competitions recognize outstanding student design projects and encourages students to become involved in the design of energy-efficient HVAC systems. A total of **63** teams participated and **35** teams were judged at Society level.

The guidelines of the **Student Design Competition** provided background information enabling teams to participate in up to three categories:

- **HVAC Design Calculations**
- **HVAC System Selection**
- **Integrated Sustainable Building Design (ISBD)**

This year's competition focused on a new **70,000** square foot (**6,500** square meter), four story mixed use complex north of **Istanbul, Turkey** near **Arnavutkoy** which is just south of the new international airport. The facility featured **retail** and **office spaces**, a **restaurant**, and a **hotel** in support of the upcoming rapid growth in the area when the airport is completed in **2019**.

First place in the **HVAC Design Calculations** category was awarded to **Jack Buckley**, **Madeline Sampsel**, **Austin Seagren** and **Christopher Wozney** of the

## University of Nebraska-Lincoln. Faculty advisors are Joe Hazel, Dan Karnes and David Yuill.

The team selected a **heat recovery chiller** in conjunction with a **geothermal loop field** as the primary system for the building. The **geothermal loop** is a sustainable approach for cooling and heating that can easily be hidden from occupant view under a **parking lot**. The geothermal heat recovery chiller provides efficient, flexible means of producing heating or chilled due to three operating modes available through the virtual endcap.

Placing first in the **HVAC System Selection** category were **Kevin Clark**, **Madison Hopfinger**, **Evan Reese**, **Whitney Luck** and **Andres Saldivar** from **Kansas State University**. Faculty advisors are **Julia Keen** and **Fred Hasler**.

The team selected **water-to-air heat pumps**, **water-to-water heat pumps**, **active chilled beams**, and a **hybrid ground loop/cooling tower**. The system proposal allows for the integration of sustainable solutions that encompass energy efficiency, human comfort and productivity, indoor environmental quality, and architectural aesthetic.

Receiving first place in **Integrated Sustainable Building Design** category was an international collaborative team from **The Pennsylvania State University (PSU)** and **Technical University of Denmark (DTU)**.



## Governor

**Jacob Hough**

2018-2019  
OVC Program Committee  
**Total HVAC**

E-mail: [jacobh@totalhvac.com](mailto:jacobh@totalhvac.com)

The **PSU** team members are **William McCann**, **Salvador Ordorica**, **Ashutosh Ojha**, **Marie Rottschaefer**, **Siddharth Swaminathan** and **Gbadebo Tobi**. Their faculty advisor is **William P. Bahnfleth**.

The **DTU** team members are **Vasileios Filis**, **Myrto Ananida** and **Alexandre Hugo Matthieu**. Their faculty advisor is **Eleftherios Bourdakis**.

The collaborative team provided insight into the sensitive environmental crisis of the decreasing water supply **Istanbul** faces due to an expanding population. The team focused on integrating the building into the natural slope of the landscape to decrease the excavation footprint and blend the facility into the natural landscape.

In the **2018 Setty Family Foundation Applied Engineering Challenge**, **Iik Wahyu Anggara**, **Katon Vembriarto Widayaswara**, **Yoga Hutomo Putra**, **Mohammad Ilham Akbar** and **Fahmi Rizaldi** from **Bandung Institute of Technology** received first place.

Their faculty advisors are **Pandji Prawisudha**, and **Adrian Rizqi Irahma**.

The team was required to design a temporary shelter for use by **governments, municipalities, and humanitarian agencies** that will provide housing and essential domestic systems for displaced families. **Bandung Institute of Technology** placed **second** for the previous three years before this year's first place finish.

The projects will be shared during the **2019 ASHRAE Winter Conference**, Jan. 12-16 in **Atlanta**. The **Winter Conference** is held in conjunction with the **ASHRAE** co-sponsored **AHR Expo**, which will be Jan. 14-16 at the **Georgia World Congress Center**.

For a full list of Student Design Competition winners (First, Second, Third and Rising Star), please visit the Design Competition Winners page on [ashrae.org](http://ashrae.org)

**ASHRAE Publishes Updated Legionellosis Standard**

**ATLANTA** (Aug. 13, 2018) - **ASHRAE** has published a revised edition of its standard that provides a more comprehensive approach to preventing the growth and spread of **Legionella**.

ANSI/ASHRAE **Standard 188-2018**, Legionellosis: Risk Management for Building Water Systems establishes

minimum legionellosis risk management requirements for building water systems. The **2018** edition provides clarification of compliance requirements, as well as an update to enforceable, code-intended language to facilitate adoption of the standard for code and regulatory purposes.

The standard was originally developed to assist **designers** and **building operators** establish water management plans that include practices specific to the systems that exist in a particular building, campus or health care facility. It is intended for use by those involved in **design, construction, installation, commissioning, operation, maintenance, and service** of **centralized building water systems** and components.

"Standard 188 was the first industry standard in the U.S. to address Legionnaire's disease prevention," said **Paul Lindahl**, chair of the **Standard 188** committee. "Since this standard centers on the development and implementation of good design, operations and maintenance procedures, it is important to make updates on a regular basis. The **2018** edition of the standard focuses on improved usability, offering better guidance to minimize the risk of this potentially fatal disease and save lives."

The **2018** edition of **Standard 188** provides:

- A description of environmental conditions that promote the growth of **Legionella**.

- Informative annexes and bibliography with suggestions, recommendations, and references to additional guidance.
- Minimum **Legionellosis** risk management requirements for buildings and associated potable and non-potable water systems.
- Requirements for **Legionellosis** control strategies and documentation.

The **CDC** estimates there are between **8,000** and **18,000** cases of **Legionnaires' disease** in the **United States** each year – and more than **10 percent** of these cases are **fatal**. **Legionella** can also cause a less-severe influenza-like illness known as **Pontiac Fever**. Most of those cases are the result of exposure to **Legionella** found in building water systems.

The cost of **ASHRAE Standard 188-2018** is **\$75** for **ASHRAE** members (**\$88**, non-members). To order, visit [www.ashrae.org/bookstore](http://www.ashrae.org/bookstore) or contact ASHRAE Customer Contact Center at **1-800-527-4723 (United States and Canada)**, **404-636-8400** (worldwide) or fax **678-539-2129**.



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# ASHRAE Stroke Play Golf Championship 2018

Hi OVC,

The ASHRAE Stroke Play Golf Championship date has been booked! September 21<sup>st</sup> at **Emerald Links**.

If you did not received the email invitation and are interested please feel free to **contact me**.

Thanks and hope to see you on the links!

Registration link - <https://ashraeottawa.simplesignup.ca/en/610/index.php?m=eventSummary>



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# 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 **Adam Moons** ([amoons@master.ca](mailto:amoons@master.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/2590/index.php?m=eventSummary>

Link: <https://ashraeottawa.simplesignup.ca/en/2593/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 \$250.00 for the year. Please contact **Rod Lancefield** at [rod.lancefield@hts.com](mailto: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/2591/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**  
**2018-2019 Publicity Committee Co-Chair**  
HTS Engineering Ltd.  
E-mail: [rod.lancefield@hts.com](mailto:rod.lancefield@hts.com)



**Treasurer**  
**Adam Moons**  
2018-2019  
OVC Treasurer  
**Master Group**

E-mail: [amoons@master.ca](mailto:amoons@master.ca)



**Publicity**  
**Rod Lancefield**  
2018-2019 Publicity  
Committee Co-Chair  
**HTS Engineering Ltd.**

E-mail: [rod.lancefield@hts.com](mailto:rod.lancefield@hts.com)

## 2018-2019

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Daniel Redmond  
**President-Elect**

Aaron Dobson

### Treasurer

Adam Moons

### Secretary

Adrienne Mitani

### Governors

Chris Frauley

Joe Della Valle

Jacob Hough

Celine Baribeau

Peter Shaw-Wood

### Past President

Adam Graham

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Sandy Taylor

#### Audit

Abbey Saunders

### Capital Communiqué

Evans Mutua

#### CRC

Daniel Redmond

#### CTTC

Jacob Hough

#### Grassroots

### Government Affairs

Adam Moons

#### Financial

Sandy Taylor

#### Greeter

Chris Frauley

#### History

Ryan Dickinson

### Membership

#### Promotion

Andrew Brown

### Nominations & Awards

Abbey Saunders

Steve Moons

#### PAOE

Aaron Dobson

#### Program

James Pady

#### Research

#### Promotion

Aaron Dobson

#### Roster

### Special Events

Colleen Fox

Joe Della Valle

Rod Lancefield

Adam Moons

#### Student

#### Activities

Elizabeth Primeau

#### Table Top

David Michelin

#### YEA

Jordan Hansen

#### Website

Ryan Dickinson