



### Meet Your New 2023 -2024 Toronto Chapter Officers



John Cusato  
ASHRAE Toronto Chapter  
Nominating Committee Chair  
and Chapter Historian

As Nominating Committee Chair, it was my honour to perform the installation of your chapter officers for 2023 -2024. The Toronto Chapter of ASHRAE is a chapter of a distinguished engineering society. It is important to remember that ASHRAE is an engineering technical society, organized to advance the arts and sciences of the engineering of heating, ventilating, air-conditioning, and refrigerating to serve humanity and to promote a sustainable world. Let us remember the founding principles of our society and assist those individuals charged to give us leadership in the year ahead. The accomplishment of ASHRAE's objectives requires the devoted efforts of thousands of members who contribute time and talent to the activities of the society.

### [The Executive](#)

### Inside The Newsletter

[New Board of Governors](#)

[Donors and Sponsors](#)

[History of McLennan Physical Laboratories, U.ofT.](#)

[Sept. 25th, Golf & Cycling Day](#)

[Conference Justification Toolkit](#)

### Quick Links

[Toronto Chapter Website](#)  
[Meeting Registration](#)  
[Past Newsletter Issues](#)  
[ASHRAE Society Website](#)

[JOIN OUR MAILING LIST](#)

---

Executive Board Of Governors (2022-2023):

President  
[Kurt Monteiro](#)  
Smith + Andersen



**Beatriz Salazar**  
President



**Alekhya Kaianathbhatta**  
President Elect



**Badri Patel**  
Treasurer



**David Sinclair**  
Secretary

**President Elect**  
[Beatriz Salazar](#)  
Smith + Andersen

**Treasurer**  
[Alekhya Kaianathbhatta](#)  
HRCx (Hidi)

**Secretary**  
[Badri Patel](#)  
Johnson Controls

**Past President**  
[Abhi Khurana](#)  
Voyager Buildings

**Board of  
Governors:**

[Michael Genin](#)  
Advance Industrial  
Refrigeration (AIR)

[Peter Turk](#)  
Victaulic

[Anne Marie Bundgard](#)  
Engineered-Comfort

[Niss Feiner](#)  
Delta-T Designs

[Dragos Paraschiv](#)  
Humber College

[Azadeh Ghadimi](#)  
Environmental  
System Corp.

[David Sinclair](#)  
The HIDI Group

[Kajen Singham](#)  
S+A Footprint

[Chris Fudge](#)  
GPA Inc.

**Newsletter Editor**  
Mariam EISheikh

**The Board of Governors**



**Kurt Monteiro**  
Past President



**Anne-Marie Bundgard**



**Azadeh Ghadimi**



**Abhishek Khurana**



**Dragos Paraschiv**



**Kajen Singham**



**Mike Genin**



**Niss Feiner**




**Peter Turk**

The new members of the Board of Governors of the ASHRAE Toronto Chapter, because of their demonstrated interest and activity in Society affairs, were elected by their fellow members to represent them. It will be the new board members' responsibilities to meet, and to deliberate and act on all matters that come before it. Since the Board of Governors is the governing body of this Chapter, it is an honour and a privilege to serve on it and it is my pleasure to welcome them to this activity of the Society, and to install them as the officers and members of the Board of Governors of the Chapter of ASHRAE. These are your chapter officers, and they need and


# DONORS AND SPONSORS OF THE NEWSLETTER

## ASHRAE Toronto Chapter thanks the following companies for their support of the Newsletter!



**Smith + Andersen**

Mechanical Engineering • Electrical Engineering • Specialty Lighting  
 Communications Design • Audio-Visual Design • Building Automation System Design  
 Security Design • Intelligent Integrated Systems Design • Sustainability Services (Footprint)

SMITHANDANDERSEN.COM FOLLOW US  



**Belimo Aircontrols (CAN), Inc.**  
 5845 Kennedy Road  
 Mississauga, ON L4Z 2G3  
 Direct: +1 905-712-7921  
 Cell: +1 416-659-2191  
 Fax: +1 905-712-3124 com  
 www.belimo.ca



**CHRISTOPHER DESROCHES, P. Eng.**  
 Applied Product Manager  
 HVAC Division

**MITSUBISHI ELECTRIC SALES CANADA INC.**  
 4299 14th Avenue, Markham, Ontario L3R 0J2 Canada  
 Direct: 905-475-3278 Cell: 647-273-1533  
 Main: 905-475-7728  
 Email: chris.desroches@mesca.ca  
 www.MitsubishiElectric.ca



**Chris Fudge, P. Eng**  
 Cell (416) 356-4033  
 Office (905) 851-3991 x 3217  
 Email cfudge@gpainc.ca

GPA Inc.  
 480 Hood Road, Unit 5, Markham, Ontario L3R 9Z3  
 www.gpainc.ca



**KLIMATROL**  
 ENVIRONMENTAL SYSTEMS

Mark Euteneier, B.Sc.  
 www.Klimatrol.com Mark@Klimatrol.com  
 Tel: 905-454-1742  
 12 Bram Court, Unit 14 & 15  
 Brampton, Ontario L6W-3R6

**SPECIALISTS For:**

- Radiant Floor Heating
- Snow Melting
- Solar Hot Water Panels
- Chilled Ceilings
- Hydronic Panels
- Boilers

*Your Source for Hydronic Heating Comfort*



**ADVANCE INDUSTRIAL REFRIGERATION**

**MICHAEL GENIN, P.Eng.**  
 mgenin@air-eng.com  
 +1 (647) 691-3831

**Modular Water Chillers  
 Packaged A/C Units  
 Heat Recovery Ventilation**

55 Northfield Dr. E. Suite 363  
 Waterloo, ON N2K 3T6

www.air-eng.com  
 Office: +1 (844) 837-3834



**kilmer**  
 ENVIRONMENTAL

**HVAC Products & Solutions Since 1987**

- Air-Source Heat Pumps
- Water-Source Heat Pumps
- Energy Recovery
- Humidification
- Dehumidification
- Controls
- Make Up Air
- Chillers
- Fans
- Indoor Air Quality

**THE HIDIGROUP**  
 155 GORDON BAKER ROAD, SUITE 200,  
 TORONTO, ON M2H 3N5 CANADA

**David Sinclair** P. Eng., LEED® AP, BCxP  
 President  
 t. 416 364 2100 x121  
 m. 416 428 9997  
 e. david.sinclair@hidi.com

HIDI.com



**ABHISHEK KHURANA**  
CEO

5800 Ambler Dr. Unit #210,  
Mississauga, ON, L4W 4J4

905-808-9505  
akhurana@voyagerbuildings.com



Robert Larson, P.Eng.  
HVAC Construction Sales Manager - GTA  
Building Efficiency

56 Leek Crescent, Richmond Hill, Ontario L4B 1H1 CANADA  
Mobile 416 712 7559  
Robert.larson@jci.com www.johnsoncontrols.com

**Delta-T Designs**

**Niss Feiner, C.Tech, CHD**  
Principal - Mechanical Designer  
niss@deltatdesigns.ca

16 Winstar Rd Unit 4a  
Oro-Medonte, On  
L0L 2L0

P-705.791.9000  
www.deltatdesigns.ca

**George Hantzis, CEM, P.Eng.**  
Team Lead  
Large Commercial DSM

416-758-4762 tel  
647-290-0511 cell  
george.hantzis@enbridge.com

Enbridge Inc.  
500 Consumers Road  
North York, Ontario M2J 1P8 Canada

Mail: P.O. Box 650  
Scarborough, ON M1K 5E3 Canada

**O'DELL ASSOCIATES INC.**

**Gus Gani, P.Eng.**

Industry-Leading HVAC Equipment Solutions

- Make Up Air Units • Kitchen Ventilation
- Dehumidification • Gas Detection
- Custom Air • Hydronics
- Handling • Air Distribution
- Heat Recovery • Commercial & Industrial Fans
- Heat Pumps

(416) 566-6324  
ggani@odellassoc.com

4085 Sladeview Cres., Unit 5 & 6  
Mississauga, ON L5L 5X3

www.odellassoc.com



**Peter Turk, P. Eng.**  
Sales Representative

500 Deerhurst Drive  
Brampton, ON L6T 5H9  
peter.turk@victaulic.com

Cell: 416.949.3554  
Tel: 905.884.7444  
www.victaulic.com

Imagine an army of engineers  
fine-tuning your HVAC every  
two minutes?



REAL TIME HVAC SAVINGS  
ENERGY GUARANTEED

www.ecopilotai.com



ecoblue™ technology

Chillers • Opticlean Air Scrubber • Ecoblue™ Rooftop



**Chris Piatek,**  
Vice President Commercial Sales, Carrier Enterprise Canada, L.P.  
195 Statesman Drive, Mississauga, ON, L5S 1X4  
D: 905-405-3147  
chris.piatek@carrierenterprise.com | www.Carrier.com/commercial

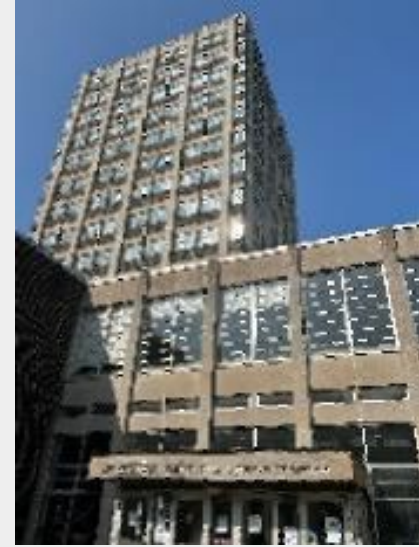
Contact [David Sinclair](#) to post your business card here!

## A Brief History of the McLennan Physical Laboratories building – University of Toronto

On May 27th and 28th, 2023, the City of Toronto held a “Doors Open” event, for which approximately one hundred and fifty buildings were open to the public. One such facility was the University of Toronto’s McLennan Physical Laboratories, located at 255 Huron Street. The main floor of the McLennan Physical Laboratories building had many interesting science demonstrations set up, with physics students providing explanations for each of the exhibits.

A quick walk across a lobby area led to the Burton Tower, a fourteen-story building that has telescopes on the top floors. The fourteenth floor has a terrace, which provides a nice view of Toronto. On May 28th, the telescopes were providing images of the sun and of Jupiter.

The McLennan Physical Laboratories building, which includes the Burton Tower was completed in 1967. There was a desire to have a high rise at the university for prestige, and to place the telescopes far above the nearby heating plant exhaust stack. A building with easier access for occupants to move from place to place was asked for, and one with not more than five floors, but was denied in favour of the fourteen-story building. The heating plant was later rebuilt, with a taller stack, one that was higher than the Burton Tower. The stack did at times interfere with telescope operation. The building also included a Linear Accelerator (Linac), which was later moved to another location. <sup>3</sup>



McLennan Physical Laboratories building with the Burton Tower in the background.

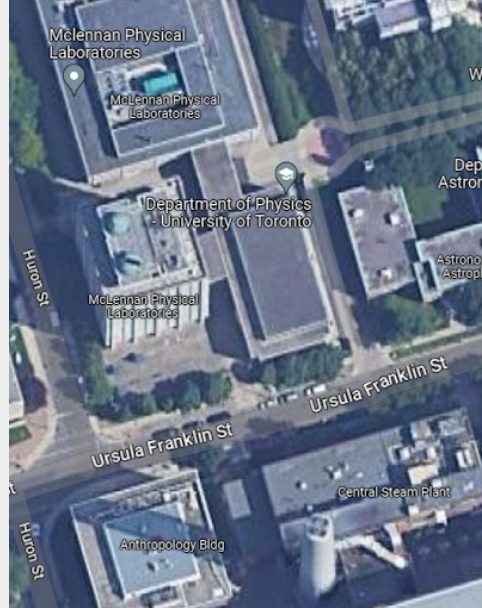
Looking into the history of the buildings leads to many interesting facts, mostly about the people who occupied them. Both Sir John C. McLennan and Eli Franklin Burton, whom the building and tower are named after, had outstanding careers, both serving in different eras as Head of the Physical Department at the University of Toronto. Experimental Research projects at the University of Toronto, have led to enormous advances in science, with many discoveries, and theories confirmed. Among his many accomplishments, McLennan discovered the cosmic ray and pioneered the use of radium to treat cancer. He also built a helium liquefier at the University of Toronto in 1923. <sup>5</sup> In the 1930s, Burton built the first practical **electron microscope** at the University of Toronto with the help of students. <sup>6</sup>



The Central Steam Plant across the street from the Burton Tower

The original physics building was at 10 Kings College Road and opened in 1907, the year that Sir John C McLennan became head of the

department. That location became the Sanford Fleming building, which eventually had to be rebuilt due to a fire in 1977. <sup>2</sup> The rebuilt facility now serves as The Faculty of Applied Science and Engineering building.



**Aerial view (from Google Maps). The McLennan Physical Laboratories building. Note the two domes of the telescopes on top of the Burton Tower, the terrace on the 14th floor, and the Stack across the street at the Central Steam Plant.**

Further back in time, in 1843, Kings College (founded in 1827) is where Natural Philosophy was first taught by professors, Natural Philosophers, such as Isaac Newton, are philosophers who study nature and what is now physics. Kings College was to become the University of Toronto in 1850. <sup>2</sup>



**King's College**

The References below go into much more detail about the incredible history of the University of Toronto Physics Department, the staff, students, and the buildings.

John Cusato, Chapter Historian, ASHRAE Toronto Chapter

### **References:**

- 1) Brown, Robert Craig. "The Life of John Cunningham McLennan (2000) ,PH.D.,F.R.S.,O.B.E.,K.B.E,1867-1935." *La Physique au Canada*, March/April 2000, Pg 91 to 101. [TheLifeofJohnMcLennan-PhysicsInCanada.pdf \(utoronto.ca\)](#)
- 2) Allin, Elizabeth J. (1981). "Physics At The University Of Toronto, 1843-1980." *Department of Physics, University of Toronto*. [Physics at the University of Toronto searchable.pdf \(utoronto.ca\)](#)
- 3) Morris, Stephen. [UT Physics] ( 2017, June 3rd). "50th anniversary of the McLennan Physical Labs." Talk by Stephen Morris with Alumni comments [Video file]. *YouTube*.
- 4) (2023) "Alumni of Influence: John Cunningham McLennan." *University College, University of Toronto*. <https://www.uc.utoronto.ca/alumni-influence/john-cunningham-mclennan>
- 5, (2023) "John Cunningham McLennan." *Wikimedia Foundation*. Last modified 21 March 2023 [https://en.wikipedia.org/wiki/John\\_Cunningham\\_McLennan](https://en.wikipedia.org/wiki/John_Cunningham_McLennan)

## TORONTO ASHRAE 2023 GOLF AND CYCLING DAY

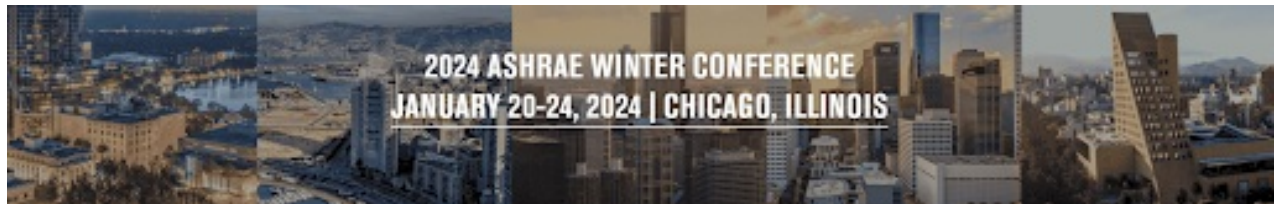
Monday, September 25, 2023  
Nobleton Lakes Golf Club  
9:30 AM - 8:00 PM  
125 Nobleton Lakes Dr, Schomberg

For Our Cycling Enthusiasts  
Take a 90-minute ride through the scenic countryside!

See the [website](#) for sponsorship opportunities



## CONFERENCES



### Justification Toolkit

Get your boss on board using template emails to request support.

Check it out [here!](#)

**ASHRAE Toronto Chapter**



Sent by support@torontoashrae.com powered by



Try email marketing for free today!