



# Airways

**Hamilton Chapter No. 037**

<http://www.vaxxine.com/ashrae/>

*American Society of Heating, Refrigeration and Air Conditioning Engineers*

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*Our 49th Year*

September 2007

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Tuesday, September 11, 2007

## *Global Warming*

**Victoria Serda**, Deputy Leader of the Green Party of Ontario and Municipal Councillor in Port Elgin, ON, will bring Al Gore's message about the threat of and solutions to global warming. Victoria has completed a rigorous training program led by the former Vice President, Al Gore, in Nashville, TN.

### Feature Speaker

**Victoria Serda**

**Deputy Leader of the Green Party of Ontario  
Municipal Councillor in Port Elgin, ON**

Victoria Serda was part of a select group of individuals chosen to receive training in early January 2007. Trainees took part in an extensive tutorial about issues surrounding global warming, led by Al Gore and a team of renowned scientists and environmental educators. In addition, they received the technical training necessary to qualify them to present a version of Gore's computer-based slide show, which became the basis of his best-selling book and Oscar-nominated documentary film, *An Inconvenient Truth*.

**Royal Hamilton Yacht Club**

**North End of McNab, On Hamilton Harbour**

**5:00 pm – Social Hour (& Technical Session, if applicable)**

**6:00 pm – Dinner & Business Meeting**

**7:00 pm – Feature Speaker**

**Technical Session/Dinner/Feature Speaker**

*Chapter Members - \$40.00 • Guests - \$45.00 • Students - \$15.00 • Meal Plan - \$140.00*

**Technical Session and/or Feature Speaker (without Dinner)**

*\$15.00*

## President's Report

Firstly, I would like to welcome everyone back for another exciting ASHRAE year. I trust that everyone had an excellent Summer. The Chapter Executive has held its annual Summer Summit planning meeting and we look forward to hosting another year of Monthly meetings and Technical Sessions.

This report was written before the 2007 CRC in New Brunswick and so will include any highlights that come out of this Conference in the October Airways. Following is a brief update on the final outcome on various aspects of the Chapter last year:

Student activities membership continues to show growth and was highlighted with the official induction of the student branch at the University of Waterloo. Dr. Michael Collins is the Chapter liaison to the university.

Our membership also grew with respect to the Area Assigned Members to date from last year as well as a reduced membership delinquency. Just a kind reminder to please pay your Society and Chapter dues on time as soon as you receive your invoice (the majority receive this invoice in June each year) so that you don't forget about them and delay the payment. If you know someone that may be able to take advantage of everything that being a member of ASHRAE has to offer, then please contact Adam Werthmiller at [awerthmiller@tmpniagara.com](mailto:awerthmiller@tmpniagara.com) or visit [www.ashrae.org](http://www.ashrae.org).

Congratulations to Enermodel Engineering of Kitchener as they were the successful candidate of a C.T.T.C. award last year.

We had a successful Research Promotion year with Bill McCartney working very hard on contacting our membership and making an attempt to reach our 2006-2007 goal. Unfortunately we missed the \$8,500 goal by just \$39. If you were one of these sponsors, the Hamilton Chapter (and Society) thanks you for your generosity. If you were not able to donate, then perhaps you could re-evaluate the great benefits of this type of donation. Numerical Logics Inc. of Waterloo has been awarded the contract for a research project, which is partially made up of funds collected locally. Your contribution, no matter how large or small, really does matter. If you should have any questions regarding research promotion, please feel free to contact Bill at [w.mccartney@isothermengineering.com](mailto:w.mccartney@isothermengineering.com).

Our annual Golf tournament was held on June 6<sup>th</sup> at the Legends on the Niagara. With 114 golfers in attendance utilizing a "shot-gun" start, the day was awesome. The chapter was able to make a small profit. Don't forget to

book next year's tourney, which is on June 4<sup>th</sup>, 2008 once again at Legends.

Just a reminder that all of our regularly scheduled meetings are at the Hamilton Yacht Club and take place on the **second Tuesday of each month** (no longer the first Tuesday).

Warmest Regards,

*David Hills, A.Sc.T., President 06/07*

## Upcoming Chapter Meetings

**Tuesday, Oct. 9/07**

**Theme: I.A.Q.**

Table Top Demonstration - Mike Krewski and John Loncar, from Union Gas, will talk about **Utility Programs**.

Feature Speaker - George McGrath, from Melink Canada, will make a presentation on **Kitchen Demand Ventilation & Controls**.

**Tuesday, Nov. 13/07**

**Theme: Research Promotion**

Feature Speaker - Didier Thevenard, from Numerical Logics, will discuss their ASHRAE Research Project entitled "**Updating the ASHRAE Climatic Data for Design & Standards**".

## New Executive Member

**Brian White, B.A.Sc.**, is the newest member of the ASHRAE Hamilton Chapter Executive, jumping right into the Secretary's role.

In 2003, Brian graduated with a degree in Mechanical Engineering from the University of Toronto. Upon graduation, he joined Engineered Air in Calgary, working in the areas of design and manufacturing.

Brian completed his head office training in 2004 and relocated to Engineered Air's Toronto sales office. A year later, he moved to their Hamilton office where he currently holds a Sales position.

Brian has been a Member of ASHRAE since 2005.

Thanks and welcome – on behalf of all ASHRAE Hamilton Chapter members.

*Allan Antcliffe, P. Eng.,  
Webmaster & Airways Editor 06/07*

## Upcoming Events of Interest

### PM Expo

November 28 – 30, 2007  
Metro Toronto Convention Centre  
Toronto, ON  
www.pmexpo.com

### ASHRAE Winter Meeting (including AHR Expo)

January 19 – 23, 2008  
New York, NY  
www.ashrae.org  
(Click on Meetings & Events)  
or www.ahrexpo.com

### CMX/CIPHEX 2008

March 27 – 29, 2008  
Metro Toronto Convention Centre  
Toronto, ON  
www.cmxshow.com

## Chapter Members Receive ASHRAE Awards

**William J. McCartney** received a Distinguished Service Award from ASHRAE at its June 2007 Annual Meeting.

The Distinguished Service Award salutes members of any grade for giving freely of their time and talent on behalf of the Society. The honor recognizes participation in chapter, regional and Society activities.

Bill is a partner with Isotherm Engineering in Mississauga, ON. He is past president of the Hamilton Chapter and now serves as treasurer and research chair as well as serving as treasurer for Region II.

Bill has served on the operation and maintenance management technical committee since the early 1980s and is former secretary and chair. He is subcommittee chair for the 2010 Refrigeration volume of the Handbook. McCartney says, "The time and effort that I have volunteered for ASHRAE pales in comparison to the value that I received."

**Dr. John Wright, Ph.D., P.Eng.** and **Dr. Michael Collins, Ph.D.** are each recipients of the Crosby Field Award given by ASHRAE at the Society's June 2007 Annual Meeting.

Their paper, *Calculating Center-Glass Performance Indices of Windows with a Diathermanous Layer*, was judged to be the best paper presented before the

Society in 2006. The Crosby Field Award is named for Presidential Member Crosby Field, whose ideas and hard work helped shape the industry.

John is a professor and Michael is an associate professor in the Department of Mechanical and Mechatronics Engineering, University of Waterloo, Waterloo, ON.

The fenestration chapter of the 2005 ASHRAE Handbook, *Fundamentals*, includes methods for determining the U-factor and solar heat gain coefficient, or window performance indices, using the radiative and convective heat transfer coefficients around a glazing layer. This paper examines the errors inherent in applying those standard calculation methods to window systems that include a single diathermanous layer. New equations for calculating the performance indices are derived.

**Congratulations** – on behalf of all ASHRAE Hamilton Chapter members.

## ASHRAE News Releases

ASHRAE Strives to Provide Advanced Energy Savings by 2010

ATLANTA – Declaring that the building industry must improve building energy efficiency, ASHRAE is striving to increase building energy efficiency in Standard 90.1.

Members Sought for Committee  
ASHRAE to Provide Design Guidance for Green Health  
Care Facilities

ATLANTA – Working to make advanced energy efficiency guidance mainstream, ASHRAE is developing a code-intended baseline sustainability standard for health care facilities.

Varied HVAC Systems Featured in ASHRAE  
Headquarters Renovation

ATLANTA – Once completed, ASHRAE's renovated headquarters building in Atlanta will feature two separate HVAC systems as part of its role as a living lab.

ASHRAE Installs New Officers, Directors

LONG BEACH – ASHRAE installed new officers and directors at its 2007 Annual Meeting held here June 23-27.

ASHRAE Publishes New Handbook Volume

ATLANTA – New chapters on room air distribution, integrated building design and chemical, biological, radiological and explosive incidents are contained in the new 2007 ASHRAE Handbook–HVAC Applications.

ASHRAE Publishes 2007 Residential Energy Standard

ATLANTA – ASHRAE's new 2007 residential energy efficiency standard contains several improvements made based on public input.

ASHRAE Publishes Refrigeration Safety Standard

ATLANTA – Expanded requirements for safety relief protection are contained in ASHRAE's new 2007 refrigeration systems safety standard.

ASHRAE Research Investigates Photocatalytic Oxidation Technology

ATLANTA – Air-cleaning equipment featuring new photocatalytic oxidation technology is used to remove contamination from indoor and outdoor air.

ASHRAE Publishes Energy Performance Comparison Standard

ATLANTA – A common basis for reporting building energy use and comparison of energy performance is available in a new standard from ASHRAE.

***Click here for complete news releases.***

## ***New Student Branches***

An ASHRAE Student Branch has officially been set up at the University of Waterloo. Dr. Michael Collins, mentioned elsewhere in this issue of Airways, is the Chapter liaison for the University of Waterloo Branch.

*Adam Werthmiller, CE.T.,  
Membership Chair & Student Activities Chair 06/07*

## ***Message from the Editor***

**Brian Beninger, P. Eng., Nathan Martin, P. Eng. and George Robb, P. Eng.** are taking a break from being on the ASHRAE Hamilton Chapter Executive. On behalf of all Chapter members, I want to thank them for their many years of contributions. I am sure that we will still see them at most Chapter meetings.

Again, please note that the ASHRAE Hamilton Chapter have returned to holding its regular monthly meetings on the second Tuesday of the month.

*Allan Antcliffe, P. Eng.,  
Webmaster & Airways Editor 06/07*



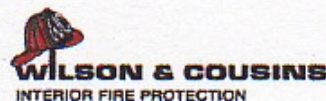
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## 2007 – 2008 Meeting Schedule

This year's meeting schedule is summarized below. Except for some special events, all meetings will be held at the Royal Hamilton Yacht Club, at the north end of McNab St., on the Hamilton Harbour (If you need a map, visit our web site). New products and/or services may be presented informally via a "technical session" or a "table top demonstration" prior to dinner. After dinner, the main topic of the evening is presented by the "feature speaker". If you are interested in presenting a technical session, booking table top space to promote your product and/or service or, if you have a suggestion for a feature subject and/or speaker, please contact Terry Fowler (Programs Chair). There is a charge of \$75.00 for "table top demonstration" space and this includes a business card ad for two months.

<b>ASHRAE Hamilton Chapter Program Activity</b>			
<b>Date</b>	<b>Theme</b>	<b>Technical Session Table Top Demonstration</b>	<b>Feature Speaker</b>
September 11, 2007	Membership	none	<a href="#">Victoria Serda</a> <a href="#">Green Party of Ontario</a> <b>Global Warming</b>
October 9, 2007	Students	Mike Krewski & John Loncar <a href="#">Union Gas</a> <b>Utility Programs</b>	George McGrath <a href="#">Melink Canada</a> <b>Kitchen Demand Ventilation &amp; Controls</b>
November 7, 2007	Research Promotion	open	Didier Thevanard <a href="#">Numerical Logics Inc.</a> <b>ASHRAE Research Project 1453-RP</b> <b>"Updating the ASHRAE Climatic Data for Design &amp; Standards"</b>
December 4, 2007 (not 2 <sup>nd</sup> Tuesday)	History/ Past Presidents	Christmas Event — Dinner & Speaker <a href="#">Engineers Without Borders</a> George Roter, P. Eng. – Co-Founder & Co-CEO	
January 8, 2008	T.E.G.A.	open	To be Determined <b>Recommissioning</b>
February 12, 2008	Membership	open	Shehwar Haque <a href="#">ECOS Aire (Division of Dectron)</a> <b>Computer Room Glycol Cooling</b>
March 11, 2008	Students/ Y.E.A.	open	Dr. James Scott & Don Panzer <a href="#">University of Toronto / Building Survey Consultants</a> <b>Indoor Air Contaminants, Mold &amp; Asbestos</b>
April 18, 2008 (not 2 <sup>nd</sup> Tuesday)	T.E.G.A./ IAQ	ASHRAE Satellite Broadcast <b>Indoor Environmental Design: Practical Solutions to Everyday Problems</b>	
May 13, 2008	Refrigeration	open	Hugh Crowther <a href="#">McQuay International</a> <b>Variable Cooling / Refrigerant Flow</b>
June 4, 2008 (not 2 <sup>nd</sup> Tuesday)	Social/ Research	Legends on the Niagara — <a href="#">Battlefield Course</a> <b>Annual Golf Tournament</b>	

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