



# Airways

**Hamilton Chapter No. 037**

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

American Society of Heating, Refrigeration and Air Conditioning Engineers

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Our 47th Year

December 2005

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**Tuesday, December 6, 2005**

**Recognition of Past Presidents & 25 Year Members**

**"Humour for the Health of It"**

Are you bored with long faces and people who take themselves way too seriously? Do you crave more jollies on the job; more humour for the health of it? Exercise your laughing muscles as you learn about the holistic, healthy benefits of a lighter outlook on life. Develop your seventh sense (humour) as you learn to face life's challenges with wit and wisdom. Leave the Dark Side behind as you explore delight at the end of the tunnel. Attitude adjustments are FREE!!!

Feature Speaker:

**Connie Jasinkas, M. Sc.**  
**For the Love of Fit**

Connie has been promoting excellence in health and fitness since 1981. She is an international author and speaker through her company: **For the Love of Fit**. Audiences in England, Portugal, South Africa and across Canada have benefited from her expertise and sense of humour. Her accomplishments include bicycling from Vancouver Island to Ontario and being a breast cancer survivor-thriver. She works in Cambridge providing aquatic rehabilitation for people with back injuries and exercise for people with osteoporosis and fibromyalgia.

**Bring your "Significant Other" to hear this dynamic and entertaining speaker!**

**Royal Hamilton Yacht Club**  
**North End of McNab, On Hamilton Harbour**

5:00 pm – Social Hour

6:00 pm – Dinner

7:00 pm – Feature Speaker

**Dinner/Feature Speaker**

\$30.00 – Members & Guests



## President's Report

At the November meeting we really put the “**R**” in ASHRAE.

The evening was started off with **R**efreshments, **R**enewal of acquaintances, and **R**obust exchange of ideas.

During the Tech Talk there was the presentation of the **R**evised **R**efrigerant **R**egulation **R**ules in Ontario.

After the meeting started we had the **R**esearch Award **R**ecognition and presented the commemorative coins to all those in attendance.

After an excellent **R**epast, Garth Dennison (Sporlan) provided a presentation on **R**efrigerants, **R**etrofits, and their **R**eplacements.

That should just about take care of the **R** in ASHRAE fro this year.

After the highly technical evening in November we are going to shift gears to a lighter, more entertaining evening for December. Since it is “President’s” recognition night we are having a special motivational speaker in the mood of social event, so bring out your significant other and kick off the festive season with ASHRAE Hamilton Chapter at the R.H.Y.C.

See you at the meeting.

*Bill McCartney, President & Research Chair 05/06*

The image is a promotional graphic for AquaTech Sales and Marketing. At the top, the AquaTech logo is displayed with the text 'SALES AND MARKETING' below it. Below this, the phone and fax numbers are listed: 'PHONE (905) 631-5815 FAX (905) 637-8655'. The graphic features four partner logos: Lochinvar (with a red horse logo), Zurn Industries Limited, Weil-McLain Canada (with a red 'm' logo), and Wilson & Cousins (with a red fire hydrant logo). A central photograph shows a snowy winter scene with trees and a fence. At the bottom center, there is a circular anniversary logo for '25 YEARS OF SERVICE' from 1980 to 2005.

Click on ad to go web site.

The image is a business card for Isotherm Engineering Ltd. It features a stylized logo on the left consisting of a red 'I' and a blue 'E'. To the right of the logo, the name 'Wm. J. McCartney' is printed. Below a horizontal line, the company name 'ISOTHERM ENGINEERING LTD.' is written in blue. Underneath, it says 'Founded in 1975' and provides the address: '2133 Royal Windsor Drive, Unit # 37, Mississauga, Ontario L5J 1K5'. Contact information includes 'Phone: 905-822-2430 • Fax: 905-822-5182 • Toll Free: 1-800-394-2954' and 'Email: w.mccartney@isothermengineering.com'.

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## Computer Corner Remote E-mail Access

At our last chapter executive meeting, we got into a brief discussion on how to access e-mail when away from home or office.

Most ISP's provide some type of web mail service. For example, this newsletter is hosted by vaxxine.com. If you have an email account with vaxxine, you can read, compose and send emails from any internet connected computer by logging in to their home page and selecting the web mail link.

Another option is to use [www.mail2web.com](http://www.mail2web.com) which provides a similar internet based email service. However this site provides remote email access to most email services from a single source. Simply enter your email address and password to gain access to your email accounts. Thanks to Dave Hills for the tip.

*Brian Beninger, P. Eng., Webmaster 05/06*

## Upcoming Events of Interest

### PM Expo

Canada's largest annual exposition and conference for owners, managers and operators of all kinds of buildings.  
November 30 – December 2, 2005  
Metro Toronto Convention Centre  
[www.pmexpo.com](http://www.pmexpo.com)

### ASHRAE Winter Meeting (Including AHR Expo)

January 21 – 25, 2006  
Chicago, IL  
[www.ashrae.org](http://www.ashrae.org)



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## **ASHRAE Hamilton Chapter 2006 Golf Tournament**

In 2005, we had the opportunity to hold our golf tournament at Legends on the Niagara. Those who were fortunate enough to play were treated to a picture perfect day at one of the most spectacular courses in the Niagara Peninsula.

The only downside was that we did not meet our target of 120 golfers. This enables them to close the course to outsiders . . . like the idiot from the other tournament who thought it would be funny to place our longest drive marker 10 feet from the green on a 485 yd hole.

Because we didn't rip up the course . . . we have been invited back!

Mark your calendar now for Wednesday, June 7, 2006. Let's ensure the course belongs to the ASHRAE Hamilton Chapter that day by getting 120 golfers out.

Are you contemplating going . . . but are concerned that it's a difficult course? This year will mark the first ever best ball.

*David Rasmussen, Social Chair 05/06*

## **Message from the Editor**

Thanks go out to all the Students attending our November meeting. Y'all come on back!

On behalf of the Chapter executive, I would like to extend Seasons Greetings to all ASHRAE Hamilton Chapter members and their families.

All the Best in 2006!!!

*Allan Antcliffe, P. Eng., Airways Editor 05/06*

## **No Library Card? No Problem!**

Check out the following books/CD's available from the Hamilton Chapter Library:

Cogeneration Design Guide  
Design of Smoke Management Systems  
Engineering Manual of Automatic Control for Commercial Buildings  
Industrial Ventilation-23<sup>rd</sup> Edition  
Duct Fitting Loss Coefficient Tables  
Fundamentals of Thermodynamics & Psychrometrics  
Cooling and Heating Load Calculation Principles  
Laboratory HVAC  
HVAC Air Duct Leakage Test Manual  
Cold Air Distribution System Design Guide

The following are ASHRAE Standard Manuals:

Number Designation and Safety Classification of Refrigerants  
Thermal Environmental Conditions for Human Occupancy  
Practices for Measurement, Testing, Adjusting, and Balancing of HVAC Systems  
The HVAC Commissioning Process

The following are CD's:

Transactions of Technical and Symposium Papers - 1997  
HVAC Applications/ Systems/ Equipment - 1995-96  
Fundamentals Handbook-1997  
2005 Annual Meeting - Technical and Symposium Papers (New to our collection)

Here's how it works. You borrow the book and, in exchange . . . you leave me your business card. When you return the book I'll return your business card. It's that easy. Traditionally people have borrowed the books, and returned them at the next monthly ASHRAE meeting.

*Please contact David Rasmussen if any of the above interest you*

*Phone/ Fax: (905) 575-5542*

*Email: [drasmussen@delhi-industries.com](mailto:drasmussen@delhi-industries.com)*

## Upcoming Chapter Meetings

**Tuesday, Jan. 10/06 (note – 2nd Tuesday)**

**Theme: Controls**

Tour of the Cambridge EMS Facility – this building was the first LEED Canada Gold Building certified. We will tour the facility and several people involved in the design will make short presentations.

**Tuesday, Feb. 7/06**

**Theme: Heating Systems**

Technical Session - **Glen Bradley** from Maxon Industrial Equipment will discuss **Burner Technology**.

Feature Speaker - **Sandra Cooke, P. Eng.** from the TSSA will present to us on the topic of **Changes to Heating Codes**.

**Mark these dates on your calendar now!**

**J. Allan Antcliffe P. Eng**  
President

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## Canadian ASHRAE Life Members present Bursary

Canadian ASHRAE Life Members presented a \$2000 Bursary Award to Ms. Weixiang Yang of the University of Windsor Branch. Ms. Yang's research project for her PhD. is "Optimum Design and Operation of the CO<sub>2</sub> Refrigeration System." Giving thanks, she said " I am very proud of the Award since it is from ASHRAE, the authority of my professional career. I do love my roles to be an HVAC engineer, researcher and presently President of the Windsor Student Branch. I enjoy the professional and enthusiastic relationship among the Society. From this I see my way to be an active ASHRAE member in the near future."



From left: Mason Hoppe, ASHRAE Windsor Chapter President; Robert Morris, LMC Chairman; Ms. Yang; S-K Ting, Professor, University of Windsor and Student Activity Chair.

**BIO – JAMES BUCHANAN**  
**PAST CHAPTER PRESIDENT,**  
**SOCIETY LIFE MEMBER**

Jim Buchanan joined ASHRAE in 1961, just a couple of years after the ASHRAE Hamilton Chapter was chartered. Born in St. Catharines, Jim graduated from St. Catharines Collegiate Institute in 1950 and then attended Queen's University in Kingston. Back in St. Catharines in '54, he got into the refrigeration business, joining Chas. Taylor Co. – a Kelvinator dealer selling the new advanced “Command Refrigerators” – no more ice boxes.

The A/C market was exploding at this time and Jim was trying to advance his career in HVAC when he met Bill Douglas. Bill was one of the pioneers in A/C in the region at the time and was both a Kelvinator and a Carrier dealer. Jim joined Douglas Refrigeration as a sales trainee in 1956. As was typical in those days, a new employee had to spend a year or two in the field as a mechanic's helper to learn the business – the old hands-on approach. The mechanic he was assigned to was Werner Kuenule. Werner was a German immigrant and refrigeration mechanic who needed help with his English and Jim needed training in refrigeration. This great team lasted a lifetime.

Bill Douglas then sent Jim to Syracuse, NY for training at Carrier. At this time, Phil Doyle was the head engineer at Douglas, specializing in major industrial air conditioning and refrigeration systems. Pete Bevan, a longtime Treasurer of the Hamilton Chapter, was also on staff doing engineering, with Doug McCoppen (Chapter Pres in '63 – '64) and Jim Buchanan assigned to sales.

In the late '50s, Douglas Refrigeration fell on hard times and Jim left to join Frontier Refrigeration – a company doing major contract work in Toronto at that time. As Frontier expanded, they elected to concentrate on the wholesale business, an area that did not have the challenges Jim desired.

Jim met with his old mentor Werner Kuenule and they decided to form a small refrigeration and A/C business called Thermal Refrigeration. They had some silent partners who weren't so silent so Werner and Jim left and started Koldflow Refrigeration which operated successfully in the Hamilton area for 20 years. Jim joined Beaver Engineering in the mid '80s and retired from full time work 10 years later.

During the mid '60s, Jim sponsored me as an ASHRAE member and helped me get into the HVAC business – he was my principal mentor for many years and

assisted me in designing the most trouble free HVAC systems in severe steel mill conditions.

Koldflow was well known, during the late '60s and '70s, as willing to take on challenging work that was on the leading edge of technology. For example, the University of Guelph asked them to design a room with environmental conditions of a steady -20 deg F with 40 MPH air velocity for a polar bear running on a treadmill. It proved cheaper to send the lab people to the Arctic than to bring the polar bear to Guelph.

The toughest job Koldflow successfully completed was to air condition the moving cabs of the charging and pusher cars in 7 coke ovens at Stelco. The interior of the 20 or so cabs had to be free of all measurable coal tar vapours and other nasty corrosive particulate while allowing for a rapid change of filters or major components such as fans and compressors – the cars could not be off line for many minutes. All of the refrigeration lines were SS flex lines to withstand the excessive vibration. The system had to maintain 80 deg F in the cab while outside conditions varied more than 150 deg F including snow, ice, heat, flames, and humidity. The power source was DC. Cabinets were made of SS to overcome the corrosion resulting from the quenching of the coke. Some 5 stages of filters were used including the new HEPAs. The compressor starter alone cost more than most home A/C systems. Interesting, most operators initially wanted the windows open like it had been for years but, after the first summer, they found the improved environment from closed windows was a better idea. Those systems lasted till the late '90s when most of the coke ovens were demolished. They became the envy of steel plants around the world and were written up in AISI and other steel associations' journals.

In the early '70s, Jim and Koldflow hired my new brother-in-law Keith Adams who went on to be a lead mechanic and is now Manager of Totaline/Carrier in Hamilton. Keith always respected Jim for his support and innovation in HVAC and continues to reminisce about the good times working for Jim.

For many years Jim was on the Hamilton Chapter Executive becoming Pres-Elect in 88-89 and President in 89-90.

Jim, like me, just can't fully retire – he taught me well. He's working both as a consultant and an innkeeper (with my condos, maybe there is even a better tie here!). Jim and his wife, Donna Gushue, purchased a Bed and Breakfast in Ellicottville, NY in February 1994. They renovated & opened with 5 bedrooms in December 1, 1994. They hosted one of the Chapter's summer summits there a few years. They have maintained the Victorian woodwork and general

spaciousness of the home while adding ten bathrooms and upgrading all the utilities and other comfort measures.

The “Jefferson Inn” was an immediate success for the traveler wanting a quiet, romantic get-away but there was a need for a different type of accommodation. In the summer of 1997, they made two efficiency units to provide accommodations for guests traveling with small children or their family dog. These units began to attract the business person who wanted their own TV's so these were added to those units in 1998. By the spring of 1999, the need for a luxury suite became apparent and two rooms upstairs were combined to give a bedroom plus a living room complete with fireplace and TV/VCR.

The latest addition has been telephones in each room for those who need to tap into their e-mail. Coffee pots and hair dryers were also added. In 2002, a hot tub was added to the back deck – looks better as you read on. The most frequently asked question of the Innkeepers is: "Did you always plan to be innkeepers?" The answer is that it was serendipity. Donna and Jim looked at the house "just for fun" one day – the house "spoke" to them and the rest is history. Neither dreamed that they would change their whole life and start up a new business. Now they can not imagine doing anything else.

The transition to Innkeeper has taken place gradually as both maintained part-time jobs in Ontario for the first five years. Donna just retired in 1999 from being a Case Manager in HomeCare in Hamilton and Jim is still working one or two days a week as a consultant for an A/C company in St. Catharines. Both have had time to become involved in the Ellicottville community with Jim organizing a new Rotary Club and Donna organizing the B&B's in the county. Probably the biggest adjustment is maintaining contact with their seven children and seven grandchildren who are scattered from Ontario to Alberta and from California to New Zealand. But having skied in Ellicottville for 20 years, both feel that this is their home. "Home is where the heart is." This year, they were awarded the Inn of Distinction in NY State by the NY Hospitality and Tourist Association for which Jim and Donna are very grateful. They have an elaborate website under the Jefferson Inn.

Jim says that ASHRAE has been rewarding and he looks back at the many benefits and friends he acquired over the last 35 years which have helped him continue to enjoy life both professional and socially.

*Submitted by George Menzies, P. Eng.,  
Student Activities Chair & Historian 05/06*

## **ASHRAE News Releases**

### **ASHRAE Launches "Engineering for Sustainability" Effort**

ATLANTA – As part of ASHRAE's stronger focus on its involvement in green buildings, the Society has introduced a new logo, theme, Engineering for Sustainability, and Website, [www.engineeringforsustainability.org](http://www.engineeringforsustainability.org). These will be used to identify ASHRAE products and services related to sustainability.

### **User's Manual Provides Better Understanding of ASHRAE 62.1**

ATLANTA – A new user's manual provides users with a better understanding of the design, installation and operation requirements in ASHRAE's ventilation standard.

### **At ASHRAE '06 – Input Sought in Proposed ASHRAE Risk Management Guideline**

CHICAGO – Guidance for the practical evaluation, design and implementation of measures to reduce multiple risks in buildings will be provided through a proposed guideline from ASHRAE.

### **LEED Credits Now Available for Energy Design Guide Use**

ATLANTA – Designers can now earn credit under Leadership in Energy and Environmental Design (LEED) certification for use of the Advanced Energy Design Guide for Small Office Buildings.

### **ASHRAE Energy Design Guide Earns Award from Green Building Council**

ATLANTA – A guide written to make sustainable design easier has earned a leadership award from the U.S. Green Building Council (USGBC).

**[Click here for complete news releases.](#)**

## 2005 – 2006 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). During the 5:00 pm to 6:00 pm Social Hour, a half hour "technical session" is presented on the basics of a particular subject relating to our industry. If the session sounds interesting to you, feel free to attend. These sessions are presented by our members and are open to any one wishing to share his or her expertise. New products and/or services are presented informally via a "table top demonstration". 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 Nathan Martin (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>				
Date	Theme	Technical Session 5:00 pm – 6:00 pm	Table Top Demonstration	Feature Speaker
December 6, 2005	History	Christmas Event — Connie Jasinskas, M. Sc. For the Love of Fit "Humour for the Health of It" Recognition of Past Presidents and 25 Year Members		
January 10, 2006 (2nd Tuesday)	Controls	Tour — Cambridge EMS Facility 1st LEED Canada Gold Building		
February 7, 2006	Heating Systems	Glen Bradley <u>Maxon Industrial Equipment</u> Burner Technology		Sandra Cooke, P. Eng. TSSA Changes to Heating Codes
March 7, 2006	Air Distribution	<b>ASHRAE 62</b>	<u>O'Dell / Titus</u> Thermal Diffusers	Jim Ashwegan Titus VAV & FPVAV Applications
April 4, 2006	Research	t.b.d.	t.b.d.	t.b.d.
May 2, 2006	Commissioning	George Menzies, P. Eng. <u>George Menzies Consulting</u> ASHRAE Structure		Bill McCartney <u>Isotherm Engineering</u> Commissioning (Denver Symposium Paper)
June 7, 2006 <b>(Wednesday)</b>	Social /Research	Legends on the Niagara – Niagara Falls Annual Golf Tournament		

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