



Airways

Hamilton Chapter No. 037

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

American Society of Heating, Refrigeration and Air Conditioning Engineers

Volume 48, No. 3

Our 48th Year

November 2006

President

David Hills, A.Sc.T.
Phone (905) 687-9778
dhills@tmpniagara.com

Treasurer & Research Chair

William McCartney
Phone (905) 822-2430
w.mccartney
@isothermengineering.com

Secretary

George Robb, P. Eng.
Phone (519) 885-2858
gjobb@golden.net

**Membership Chair &
Student Activities Chair**

Adam Werthmiller, C.E.T.
Phone (905) 687-9778
awerthmiller
@tmpniagara.com

Historian

George Menzies, P. Eng.
Phone (905) 388-1313
gmenzies@allstream.net

C.T.T.C. Chair

Nathan Martin, P. Eng.
Phone (905) 681-3901
nathan@odellassoc.com

T.E.G.A. Chair

Mike Krewski
Phone (519) 885-7460
mkrewski@uniongas.com

Social Chair

David Rasmussen, C.E.T.
Phone (905) 575-5542
drasmussen
@delhi-industries.com

Programs Co-Chair

John Loncar, P. Eng., MBA
Phone (519) 885-7450
jloncar@uniongas.com

Programs Co-Chair

Terry Fowler, P. Eng.
Phone (905) 335-3325
terry.j.fowler@jci.com

Webmaster

Brian Beninger, P. Eng.
Phone (905) 563-3221
brian@beninger.ca

Airways Editor

Allan Antcliffe, P. Eng.
Phone (519) 756-5760
allan@madok.com

DRC

Wilfred Laman, P. Eng.
Phone (905) 673-7735
wlaman@quiet-aire.com

Tuesday, November 7, 2006

Distinguished Lecturer Program

**Operation & Maintenance of HVAC Systems
for Improved Comfort and Air Quality**

The HVAC industry affects the public's quality of life in many ways, from indoor air quality, to conserving energy in buildings, to the development of refrigerants that do not harm the environment.

Indoor air quality is of increasing concern as society redefines the needs of the indoor environment. This talk presents a new perspective on the topic, starting with the proper preventative program and how to reduce the probability of bad indoor air quality resulting from an improper maintenance program. We will look at the location of outside air intakes, air handling systems, cooling towers as well as other areas.

Feature Speaker

Carl N. Lawson

PWI Commissioning Services – Durham, NC

Carl N. Lawson is a Commissioning Authority for PWI Commissioning Services. Mr. Lawson has been involved in the ASHRAE Commissioning Process since 1984 and has remained active on the respective committees since that time. He has been involved in the commissioning process since 1962 when it was called "Total Quality Management" Over his career he has been involved in design, construction and owner representative. Prior to joining PWI, he was responsible for the commissioning process at Duke University Medical Center.

(Continued on next page)

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

5:00 pm – Social Hour & Technical Session

6:00 pm – Dinner & Business Meeting

7:00 pm – Feature Speaker

Technical Session/Dinner/Feature Speaker

Chapter Members - \$30.00 • Guests - \$40.00 • Students - \$15.00 • Meal Plan - \$135.00

Technical Session and/or Feature Speaker (without Dinner)

\$15.00



Carl N. Lawson (Cont'd.)

He has commissioned hospitals, medical clinics, prison laboratories, high tech facilities, medical office buildings, and office buildings projects in the U.S. and abroad. He has been responsible for developing a large number of the protocols that used today in the commissioning industry. Mr. Lawson is a pioneer in the commissioning industry and a frequent lecturer on the process. In 2000 he was awarded the Benner Award for his dedication to the commissioning process. He has also received the ASHRAE Distinguished Service Award. From 1984 to 2000, he taught the Commissioning Course at the University of Wisconsin and now an instructor for the Commissioning Course taught by the Building Commissioning Association.



Mr. Lawson has been a contributor to three books; *Indoor Air Quality* published by AEE, *The HVAC Design Process* published by ASHRAE, and the latest, *The Hospital and Clinic Design Guide*, published by ASHRAE. He has also published numerous articles in the *ASHRAE Journal* and presented numerous papers and seminars at the ASHRAE Annual and winter meetings.

Mr. Lawson is an ASHRAE member, a member of the Handbook Committee, and Chair of Committee for the ASHRAE Position Document on Mold and Mildew. He is a member of GPC-1, HVAC Commissioning, and a member of TC 7.12, Building Commissioning. He has also served as a member of the Standards, Program, Journal and Insights, and Special Publications Committees.

President's Report

Our October meeting, featuring guest speaker Duncan Phillips from RWDI, was very interesting and provided a great deal of insight to the type of background work that goes into Duncan's investigative projects.

Distinguished Lecturer Carl Lawson is scheduled to visit our Chapter for the November meeting. Carl will be talking about "Operation & Maintenance of HVAC Systems for Improved Comfort and Indoor Air Quality." As spaces are filling up quickly, please forward your RSVP to Wilf Laman via fax at (905) 673-0567 or by email at wlanan@quiet-aire.com. A speaker abstract was electronically sent around to the chapter membership, along with the Sign-up form, by our webmaster Brian Beninger on October 19th, 2006. If you have not received this form, please refer to the last page of our November Airways newsletter for another copy. This newsletter also has many internet links to all kinds of related topics.

If you are interested in obtain either chapter meeting Gold dinner cards or "Free Show Registration" passes for the upcoming ASHRAE 2007 Winter Meeting in Dallas, then please contact me personally.

Our Family Christmas Event is to be held on Saturday, December 9th, 2006 at Dundurn Castle in Hamilton which is not the usual first Tuesday of the month.

I would also like to congratulate a few Hamilton Chapter members who will be receiving special awards at the Christmas Event. They are: Robert Schock – 50 Year Member; Leon Yaskowich – 50 Year member; John Pollock – Life Member; and Peter Graham – Life Member.

Also, there have been many changes recently to the Society website – I encourage you to visit it at www.ashrae.org, and search around the site for all

Terry J. Fowler, P.Eng.
Account Representative

Johnson Controls L.P.
Controls Group
3070 Mainway Drive, Unit 10 & 11
Burlington, Ontario L7M 3X1
Tel: (905) 335-3325
Direct: (905) 335-3551 Ext. 241
1-800-263-6226
Fax: (905) 335-9960
Cell: (905) 730-9674
terry.j.fowler@jci.com

Member Club d'Excellence

Click on ad to go to web site.

Airways – ASHRAE Hamilton Chapter – November 2006

sorts of HVAC&R related information. You may be required to enter your Membership number and PIN so please have your membership card available when you access the site. Information that's available includes the monthly ASHRAE Journal. The digital journal is identical to the printed version that you receive monthly by mail. The fully searchable document contains an interactive table of contents with ads linked to other web-sites. You may also use this website to purchase standards and publications, access satellite broadcasts and education courses and to keep informed of upcoming notable ASHRAE events.

Our next monthly chapter meeting is November 7th, at the Hamilton Yacht Club at 5:00pm. See you there.

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

	Consulting Engineers
The Mitchell Partnership Inc.	
26 Hiscott St., Suite 104 St. Catharines, Ontario Canada L2R 1C6	David Hills, A. Sc. T. Designer
Tel (905) 687-9778 Fax (905) 687-8147	E-mail: dhills@tmpniagara.com www.tmpniagara.com

Click on ad to go to web site.

Technical Session

At this month's "technical session", **Bill McCartney**, ASHRAE Hamilton Chapter Treasurer & Research Chair, will present **ASHRAE Research Recognition Awards**.

October Meeting Recap

The October meeting was well attended and everyone enjoyed a great presentation from Duncan Phillips, RWDI. Duncan discussed wind tunnel modeling, computational fluid dynamics (CFD) and low energy buildings.

RWDI uses wind tunnel modeling as a tool to investigate snow loading, analyze loads on building cladding and determine effects of wind on building vibration, to name a few. The benefits of applying wind tunnels in building design are the ability to effectively

determine the real loads on the building. Understanding how the building works within its environment gives the Engineer a roadmap to aid in their design. CFD analysis has also become a reliable means to simulate wind, snow, etc, and their effects on buildings.

Nathan Martin, P. Eng., C.T.T.C. Chair 06/07

Research Report

We have just gotten over Thanksgiving and are quickly approaching the most giving season of the year so I wanted to put in my plea to get in your Research donation early.

Rather than wait for the financial drought that follows Christmas, the expenses of the much deserved winter vacation or the hoarding of money for the summer holidays, it makes much more sense to bring your cheques, bank drafts, money orders, loonies, pesos or even penny rolls to the November meeting.

Just think of it as getting another item off you "TO DO LIST" easy and early.

Thank you in advance.

Bill McCartney, Treasurer & Research Chair 06/07

	Frank E. Olds Systems Branch Manager, SW Ontario Johnson Controls L.P. Controls Group 3070 Mainway Drive, Unit 10 & 11 Mainway Business Centre Burlington, Ontario L7M 3X1 Direct: (905) 335-3551 Ext. 231 Tel: 1-800-263-6226 Fax: (905) 335-9960 frank.e.olds@jci.com
Member Club d'Excellence	

Click on ad to go to web site.

Upcoming Chapter Meetings

Saturday, Dec. 9/06 (not 1st Tuesday)

Theme: Social

Christmas Event - tour and dinner at Dundurn Castle, Hamilton.

Upcoming Events of Interest

Plant Engineering and Maintenance Association of Canada (PEMAC) "MainTrain 2006" Conference

Canada's premier physical asset management and maintenance event
Nov. 27 – Nov. 30, 2006
Novotel Toronto Centre
www.pemac.org

PM Expo

Canada's largest annual exposition and educational forum on the management and operations of all types of buildings
Nov. 29 – Dec. 1, 2006

Free Admission to ASHRAE Members

Metro Toronto Convention Centre (South Bldg.)
www.pmexpo.com

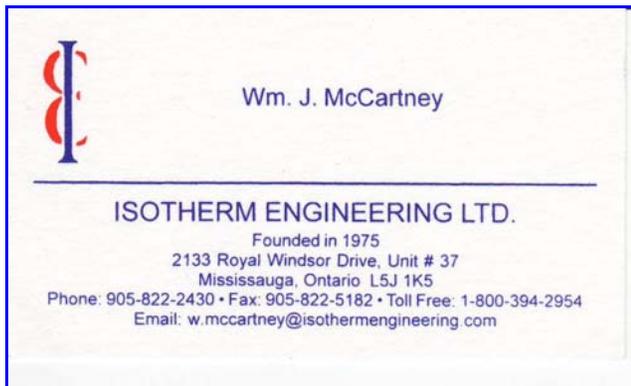
ASHRAE Winter Meeting (including AHR Expo)

Jan. 29 – Jan. 31, 2007
Dallas, TX

www.ashrae.org

(click on Meetings & Events)

Free Show Registrations – complimentary passes to the AHR Expo – are available to ASHRAE Hamilton Chapter Members planning to attend. If you are interested, please speak to Dave Hills.



Wm. J. McCartney

ISO THERM ENGINEERING LTD.
Founded in 1975
2133 Royal Windsor Drive, Unit # 37
Mississauga, Ontario L5J 1K5
Phone: 905-822-2430 • Fax: 905-822-5182 • Toll Free: 1-800-394-2954
Email: w.mccartney@isothermengineering.com

Click on ad to go to web site.

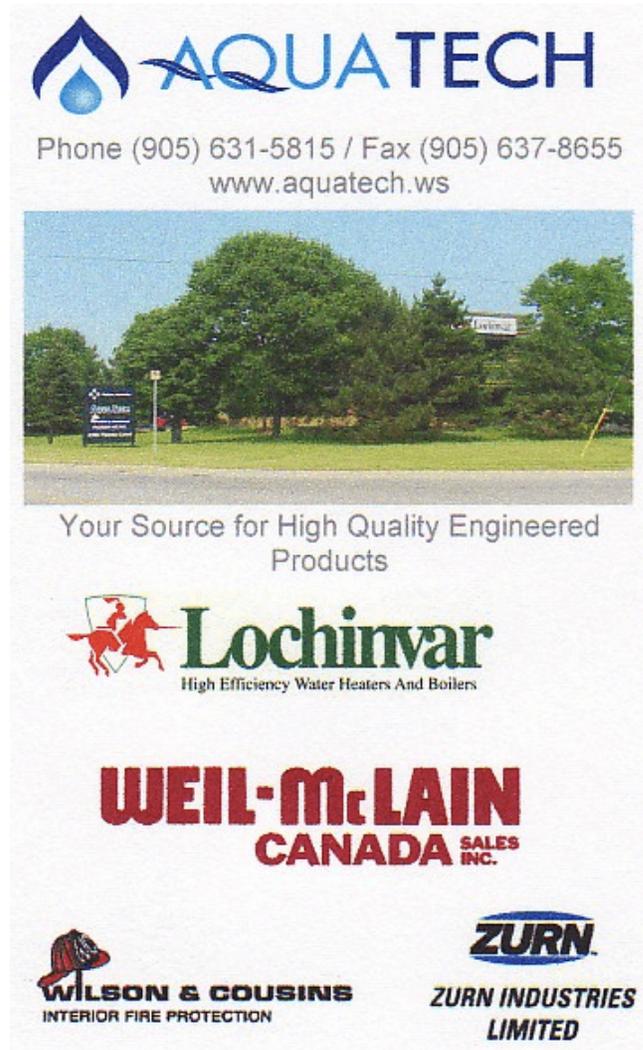
New Chapter Member

Tim Neeb, P. Eng. – Tim served a five year apprenticeship in the sheet metal trade and worked for a year as a certified sheet metal worker on commercial and industrial projects. He then went back to university and received his Bachelor of Engineering degree in Mechanical Engineering from Ryerson University in

1999. During this time, Tim enjoyed a year of studies in Germany.

Tim is currently working for MNE Engineering Inc. in Kitchener.

Welcome to the ASHRAE Hamilton Chapter!



AQUATECH
Phone (905) 631-5815 / Fax (905) 637-8655
www.aquatech.ws

Your Source for High Quality Engineered Products

Lochinvar
High Efficiency Water Heaters And Boilers

WEIL-McLAIN CANADA SALES INC.

WILSON & COUSINS
INTERIOR FIRE PROTECTION

ZURN INDUSTRIES LIMITED

Click on ad to go to web site.

Employers: Post Internships for Free!

ASHRAE is offering a new internship program for ASHRAE student members and employers (seeking student interns from engineering, architecture or construction management programs). The purpose of the program is to place ASHRAE student members in industry internships. Employers can post their available

Airways – ASHRAE Hamilton Chapter – November 2006

internships and student members can research and apply to the companies directly for positions meeting their search criteria. Why wait? Post your available internships now and be a part of developing the future leaders of the HVAC&R industry! You can make a difference in the future of an ASHRAE student member.

Submitted by Brian Beninger, P. Eng., Webmaster
06/07



O'DELL ASSOCIATES INC.
Jack M. Fitzmaurice, P.Eng.
Tel: 905-681-3901
Fax: 905-681-0688
Cell: 905-546-6600
Email: info@odellassoc.com
1038 Cooke Blvd., Unit 3
Burlington, Ontario
L7T 4A8

Click on ad to go web site.

ASHRAE News Releases

Standard 161P for Public Review ASHRAE Revises Proposed Cabin Air Quality Standard

ATLANTA – A standard that will address such airplane air quality issues as temperature, humidity and ventilation rates is one step closer to being published.

ASHRAE Looks to Develop Water Conservation Standard

ATLANTA – Requirements regarding the amount of water used to operate HVAC, plumbing and irrigation systems would be established under a proposed standard from ASHRAE.

International Code Council Takes Action on ASHRAE Proposals

ATLANTA – International building codes may soon incorporate new requirements from ASHRAE standards, thanks to several recent proposals now under consideration.

Proposed Load Calculations Standard Open for Review

ATLANTA – Heat transfer interactions that occur inside and outside conditioned buildings are highly complex

and involve thousands of variables.

Yo! ASHRAE Video Promotes Engineering as Career

ATLANTA – The hottest new rap video can't be seen on MTV, BET or even VH-1 – it's on ASHRAE.org.

New Designations Proposed for ASHRAE Refrigerant Safety Standard

ATLANTA – Eight proposed addenda, including three adding new refrigerant designations, to ASHRAE's refrigerant safety standard are open for public review.

ASHRAE Proposes New Moisture Control Standard

ATLANTA – In recent years, moisture problems such as mold growth have become big issues for building owners and operators.

**Not all October releases shown (busy month)!
Click here for complete news releases.**

This space could be yours!

**Business Card Ad
\$75.00 for One Year**

If you are interested, contact Allan Antcliffe
allan@madok.com

2006 – 2007 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.

ASHRAE Hamilton Chapter Program Activity				
Date	Theme	Technical Session 5:00 pm – 6:00 pm	Table Top Demonstration	Feature Speaker
November 7, 2006	Research	Bill McCartney ASHRAE Hamilton Chapter Treasurer & Research Chair Presentation of ASHRAE Research Recognition Awards		Carl N. Lawson ASHRAE Distinguished Lecturer Operation & Maintenance of HVAC Systems for Improved Comfort & Air Quality
December 9, 2006 (not 1st Tuesday)	Social	Christmas Event — Dundurn Castle, Hamilton Tour & Christmas Dinner		
January 2, 2007	Sustainability	Speaker yet to be named Union Gas Limited Changes to Gas Codes		Art Stokman Guelph Hydro City of Guelph – A Plan for Sustainability
February 6, 2007	T.E.G.A.	Speaker yet to be named OSPE Bill 124 – Update		Mike Seiling City of Kitchener Changes to the 2006 OBC
March 6, 2007	Sustainability	George Menzies, P. Eng. ASHRAE Hamilton Chapter Historian TC65.08 – Industrial Ventilation		Florin Plavosin, P. Eng. Enerworks Inc. Solar Heat Exchanger for Hot Water Applications
April 18, 2007 (not 1st Tuesday)	IAQ	Satellite Broadcast – Indoor Air Quality Crossroads – Burlington, ON		
May 1, 2007	Students	Tour of Lakeport Brewery		CIMCO
June 6, 2007 (not 1st Tuesday)	Social /Research	Legends on the Niagara — Usher's Creek Course Annual Golf Tournament		

Airways Editor:

Allan Antcliffe, P. Eng.
 Madok Manufacturing Limited
 50 Morrell Street, Brantford, ON N3T 4J5
 Phone: (519) 756-5760
 Fax: (519) 756-5768
 E-mail: allan@madok.com

Hamilton Chapter Mailing Address:

ASHRAE Hamilton Chapter
 59 Abbey Close
 Ancaster, ON L9G 4K8

ASHRAE Hamilton Chapter

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



Event Sign-Up Form

EVENT: Operation & Maintenance of HVAC Systems for Improved Comfort and Air Quality – a presentation sponsored by the Hamilton Chapter of the American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

SPEAKER: Carl N. Lawson, PWI Commissioning Services, Durham, NC

DATE: November 7th, 2006 @ 5:00 pm

LOCATION: Hamilton Yacht Club, Foot of McNab Street, Hamilton, ON

Attendee Information:

NAME: _____

E-MAIL: _____

FAX: _____

PAYMENT: Payment may be made in CASH or CHEQUE at time of meeting.

If paying in advance, please make cheque payable to "ASHRAE Hamilton Chapter".

Please return form to Wilf Laman.

FAX: 905-673-0567

E-MAIL: wlaman@quiet-aire.com

Note: Attendance is limited to 50 people. Reserve your spot early on a first come, first served basis.