



Airways

Hamilton Chapter No. 037

American Society of Heating, Refrigeration and Air Conditioning Engineers

Volume 43, No.3

Our 43rd Year

November 2001

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Tuesday November 13, 2001

Air Supported Structures

Our speaker for tonight has changed and we are pleased to have as our guest Mr. James W. Gallagher of Soper's Engineered Fabric Solutions.

Mr. Gallagher is president of Soper's Engineered Fabric Solutions, a local Hamilton company that has been in business since 1875. Over the last 40 years Soper's has been involved in Air Supported Structures. They are an industry leader in the design, supply and installation of industrial fabric structures.

The technical presentation will include pressure requirements, fabric duct design and indoor air quality of Air Supported Structures.

We would like to extend our a special note of thanks to Mr. Gallagher for filling in on short notice.

Chapter History

Hamilton Chapter Member: John B. Pollock (John) – Historical Bio

John Pollock, a Brantford native and current resident, has been an active member in ASHRAE for some 30 years with involvement in the Hamilton Chapter's Executive for more than 15 years with much of that as Treasurer and Refrigeration Chair from '87 to '01. In this latter position, he received the Iceman Award at the recent CRC in Halifax, the region's highest award for his leadership in refrigeration activities. John was Chapter President in '98-'99. But most of us in the chapter have been impacted by John's activities as treasurer for the past decade when he established and maintains a sound financial system – no deficit spending. This has allowed the chapter to keep the chapter dues the same for many years while expanding member services. In '99, John received the Regional




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

NEW THIS YEAR!!

5:00 PM Social Hour & Technical Session
6:00 PM Dinner & Business Meeting
7:00 PM Technical Program / Speaker Presentation

Chapter Members \$ 25.00 • Guests \$ 30.00 • Students \$ 20.00 • Meal Plan \$ 110.00

Award of Merit for his dedication to ASHRAE.



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In my recent interview with John, he told me his interest in design and engineering started at age 5 when he worked on his dad's drafting board. His father designed electric motors in a community which soon spawned several refrigeration companies including Ruddy's in the 30's, Universal Cooler in the late 30's, Keeprite in '45. Brantford was soon becoming the refrigeration manufacturing centre for Canada. John told me that Gord McMillian, a retired Hamilton Chapter Charter member lived across park from his family and Lloyd Book from Universal Cooler was his neighbour. They aroused his interest in this new refrigeration industry.

While at the U of Waterloo, John was hired by Norm Wood of Keeprite to do his work-term at the Brantford Keeprite plant. John's term report covered many Keeprite design issues. After reviewing his report, John decided it best to just go and work for them full time in '62. By '67 John was deeply involved in applying the new semi-hermetic technology to commercial condensing units when compressor selection data and heat transfer was limited. With his friend Frank Oreskovick, they designed a test chamber to establish heat transfer rates, as no reliable surface heat transfer curves were available. By the end of '67 John had published some 150 graphs to better define heat transfer rates. This helped Keeprite sell 175 units, more than double projected sales. At this time (1968), John was referred to ASHRAE's enthalpy charts, his first exposure to the technical side of the Society. The ASHRAE raw data verified what they had established in the test chamber.

In '72, John was hired by Roger Blanchard to join Blanchard Industries of Montreal to do product engineering. As soon as John moved to Montreal, Roger Blanchard and Ness Lakdawala sponsored John's membership in ASHRAE and the Montreal Chapter. Those days, you needed two sponsors for membership into the Society. While in Montreal, John designed packaged dehumidifiers for arenas. One of his associates on the project left Blanchard to set up a company now known as Dectron to do similar applications.

In '76 John returned to Brantford to work for Hussman as a design engineer, soon becoming Manager. He was there for 16 years. After working as a consultant for a few years, John joined Enviro-Tech in Ancaster where he is a Marketing Manager.

We hope John will continue to be involved in the Hamilton Chapter for many more years.

George Menzies, Hamilton Chapter Historian 01/02

Research Update

The Hamilton Chapter would like to formally recognize and thank those individuals and companies who supported us in last year's Research Campaign. We raised a total of \$7,296.00 in our chapter for a total of \$90,088 in our region. For that investment, companies here have been awarded \$1,243,131.00 worth of research projects! A great return on

THIS SPACE COULD BE YOURS!

**Business Card Ad
\$75 For One Year**

If you are interested, please contact Brian Beninger. Email brian@beninger.ca

I would also like to take this opportunity to remind everyone that the 2001/2002 Research Campaign is now underway and if you or your company wish to support our efforts, we would appreciate it. Our committee will be contacting you in the near future.

Thanks for your support.

Ed Cazzola, Hamilton Chapter Research Chair 01/02



***December 1, 2001
Past President's
and Family Day***

"Niagara Under Glass", Vineland, Ontario

Discover and explore this all new state of the art growing and learning centre. Part production greenhouse and part interactive horticultural Discovery Centre, this is a unique experience for people of all ages.

Flowers and technology meet at this all new innovative 15,000 sq. ft. "farm of the future". Stroll by the spectacular water features and lush landscapes that not only look great, but also purify both air and water in this sustainable ecosystem.

Both young and old can enjoy a potting experience where you can pot your own plant and learn insightful planting and growing tips from the pro's.

Experience a unique hydroponics display featuring tomatoes, green peppers, cucumbers and herbs along with numerous interactive displays.

Finally, we will tour the 225,000 sq. ft. high tech greenhouse where Poinsettias, Calla Lilies, miniature roses and Chrysanthemums are produced.

Price for adults includes meal with wine, and one of either tech tour or potting experience:
\$30.00/person

Price for children (3 - 11) includes meal with soft drink, and one of either tech tour or potting experience: \$16.00/person

our investment.

This month's meeting has been selected as the night for you to come forward and be thanked for your contributions. I have attached a 2000/2001 Research Campaign Report highlighting the contributors who we would like to honour with a small token of appreciation. If you, or anyone from the company which you represent, can attend this month's meeting, please do so and receive thanks in person.

Children (2 and under free)

If individuals would like to participate in both tour and potting experience an addition charge of \$7.50 is applicable.

Please RSVP to John Pollock by Nov. 23/01 at 905-304-1788 or by fax at 905-648-9220

Code Corner

This is a new section in Airways.

Periodically, as circumstances warrant, we will be including information regarding changes to codes that affect our industry.

**CSA B64.10
Backflow Prevention Update**

In January, 2001, The new CSA B64 manual was printed and is now available. As both the national and provincial building codes make direct reference to this document, it is an important guide for anyone involved in the selection, installation and testing of backflow preventors.

It is important to note that this standard has been split into two components. B64 Series-01 deals primarily with how devices are tested to garner CSA approval. Of more interest is B64.10-01/B64.10.1-01. This latter document is a "Manual for the Selection and Installation of Backflow Prevention Devices/Manual for the Maintenance and Field Testing of Backflow Prevention Devices".

**Ontario Building Code
Carbon Monoxide Detectors**

CO detectors are now mandatory in all Ontario new residential buildings with a garage or fuel-burning appliance. The Ontario Ministry of Housing has amended the building code to implement this new legislation.

**CAN/CSA B139
Installation Code for Oil Burning Equipment**

The technical advisory committee for the B139 code is re-examining the 2000 version with plans to produce a revised edition by the spring of 2002.

Expected changes and / or modifications include oil tank installations and vent sizing tables.

CAN/CSA B149

Natural Gas and Propane Installation Code

The technical advisory committee for the B149 code reports that CSA is preparing a CD-ROM and a manual calculator for vent sizing to accompany the 2000 code edition.

CSA B214-01

Installation Code for Hydronic Heating Systems

The Canadian Institute of Plumbing and Heating (CIPH) reports that the first hydronic installation code in North America has been released. The process toward being referenced in Part 6 of the National Building Code in 2003 will see it go through a public review period one year from now. Copies of the code are available on line at www.ciph.com or through e-mail at ciph@ciph.com or by calling CIPH at (416) 695-0447.

Social News

As the cold weather nears, it's always nice to reflect back on the hot day we had for our annual Hamilton Chapter Golf Tournament back in June. The success of our tournament is achieved through the help of our Corporate Sponsors who generously donate each year. Thanks again to the following companies:

**Comstock Canada
Johnson Controls Ltd.
Niagara Plumbing Supply Co. Ltd.
Penn Ventilator Canada
Weil-McLain**

Next years tournament has been confirmed for Wednesday June 12th again at the Whirlpool Golf located in Niagara Falls. No more long waits after the tourney.....We have a double tee-off planned to send half out on #1 while the other half tackle the back 9 first.

*David Rasmussen, Hamilton Chapter Social Chair
01/02*

Did you say that you wanted to sit in the "GOLDS"?

Reprint of last month's announcement:

Attention all ASHRAE members who would like to bring guests to an ASHRAE meeting.

Special "ASHRAE" meeting "GUEST DINNER TICKETS" are available at the special introductory price of \$100.00 for a book of 4 tickets.

These tickets allow you to treat a special friend or customer to a meeting. They will work even though you may not be able to attend!

These special tickets will insure that your guest is properly introduced to ASHRAE.

Pick up yours today! Contact a member to the executive or see your sales rep at the next meeting!!

Message From The Editor

As you may have noticed, we added a section on Codes to the Airways. Our intent is to provide notice to our members of changes or additions to the codes that govern our industry. It may even be useful in publicizing official interpretations of codes in some cases. If you know of such changes which have been made or are pending, please drop me an email and I will put it in the next issue. It's not necessary to provide a lot of detail, just tell me where it can be found, when it comes into effect etc..

Thanks to Darryl Singleton for this month's Code Corner submission.

And thanks also to Chapter Historian George Menzies for another first rate Bio of one of our distinguished and hard working members, John Pollock.

*Brian Beninger, Hamilton Chapter Airways Editor
01/02*

Upcoming Events of Interest

**CMCEF Project Management 2001
November 15 – 19, and December 13 – 17, 2001**

A 70 hour, 10 day course offered by the Canadian mechanical Contracting Education Foundation (CMCEF) and the University of Waterloo, sessions include estimating, communications, administration and scheduling. Contact CMCEF at Phone (613) 232-5169, Fax (613) 235-2793 or visit www.cmcef.org for info.

**The Heating, Refrigeration and Air Conditioning Institute of Canada (HRAI)
Ontario Fall Course Schedule has been announced.**

Residential Integrated Combo Systems
November 13 - 14, 2001 in London

Residential Heat Loss and Heat Gain
November 13 - 15, 2001 in Markham

Residential Air System Design
November 15 - 17, 2001 in Ottawa
December 6 - 8 in Markham

Residential Commissioning
November 23 - 24, 2001 in London

Residential Mechanical Ventilation Installation
November 27 - 29, 2001 in Markham
December 10 - 12 in Owen Sound

Small Commercial Heat Gain and Heat Loss
November 28 - 30 in Toronto

Residential Mechanical Ventilation Design
December 4 - 6, 2001 in Toronto

Small Commercial Air System Design
December 13 - 15, 2001 in Toronto

For information on the courses or to registration for the courses call Phone (905) 602-4700 or (800) 267-2231.

**ASHRAE London Chapter
HVAC Design and Its Relationship to Fire Litigation
(Mr. William Black - ASHRAE Distinguished Lecturer)
Monday Nov 26, 2001**

A summary page PDF file may be viewed and printed from the web site:
<http://www.execulink.com/~tpollard/ashrae/Nov26meeting.PDF>

Contact: Tom Pollard, P.Eng, Vice President and Program Chair, ASHRAE London Canada (Chapter #116)
tpollard@execulink.com

**Construct Canada
November 28 – 30**

Metro Toronto Convention Centre
Contact Paulette Moser at Phone (800) 660-7083 or (416) 512-1215, fax at (416) 512-1993 or visit
www.constructcanada.com

**AHR Expo (ASHRAE and ARI)
January 14 – 16, 2002**

Held this winter in Atlantic City, New Jersey. Contact the International Exposition Co. at Phone (203) 221-9232.
Contact ASHRAE Meetings Section by Phone (404) 636-8400 or e-mail at jyoung@ashrae.org

**CMX2002
March 21 – 23, 2002**

Heating, Refrigeration and Air Conditioning Institute of Canada and Canadian Mechanicals Exposition at the Metro Toronto Convention Centre (North Building). For information call (416) 444-5225 or e-mail
showoffice@salshow.com

**RSES 2002 Conference
April 17 – 21, 2002**

The Refrigeration Service Engineers Society (RSES) of Canada is holding its 63rd annual educational conference at the Delta Winnipeg Hotel in Winnipeg Manitoba. For more information contact Garry MacKenzie at Phone (204) 256-4589 or visit www.rses.ca

**CIPHEX West
April 18 – 19, 2002**

The Canadian Institute of Plumbing and Heating (CIPH) is presenting CIPHEX West at the Roundup Centre in Stampede Park in Calgary Alberta. For information contact CIPH at Phone (416) 695-0447 or fax (416) 695-0450, or e-mail at mccullough@ciph.com or www.ciphex2002.com

**MEET 2002
May 8 – 9, 2002**

The Canadian Institute of Plumbing and Heating (CIPH) Atlantic Region, the Illuminating Engineers Society (IESNA) and the New Brunswick Chapter of ASHRAE are sponsoring a trade exposition at the Coliseum-Agrena in Moncton, New Brunswick targeting the mechanical trades industry. For information Phone (888) 454-7469 or (506) 658-0018.

Chapter Scholarship Program

As indicated last year in our chapter newsletter, one of the ways that we are offering a benefit for our membership is through the Hamilton Chapter Scholarship Program. This program is designed to support students entering a post secondary education in the field of science and technology at community college or university level. It is open to the direct family of any Hamilton Chapter member who wishes to submit an entry form. The value of the scholarship will vary slightly year to year but will be in the \$600.00 range, so it wouldn't hurt to put a name forward to promote a venture toward improving the arts and sciences of heating, refrigeration and air conditioning.

Complete the following entry form and return to the ASHRAE Hamilton Chapter's Student Activities Chair to enter. All entries will be compiled throughout this year and selection interviews will be held by the chapter executive scholarship committee and awarded at our June meeting.

Chapter Member's Name :	
Address :	
Phone No. :	
Fax No. :	
E-mail :	
Students Name and Relationship to you :	
Intended Field of Study :	
University (s) Applied to :	

Return To :
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Research

Hamilton Chapter No. 037

American Society of Heating, Refrigeration and Air Conditioning Engineers

2000 - 2001 Research Campaign Report

November 2001

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2001 - 2002 Meeting Schedule

This year's meeting schedule is summarised below. Except for some special events, all meetings will be held at the **Royal Hamilton Yacht Club, North end of McNab St. on Hamilton Harbour** - **If you need a map, check out our web site at <http://www.vaxxine.com/ashrae/>**. During the 5:00 PM to 6:00 PM Social Hour, a half hour "technical session" on the basics of a particular subject relating to our industry is presented. If a session sounds interesting to you, feel free to attend. Presentations are made by our members and this forum is open to all who wish 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 a "feature speaker". If you are interested in presenting a technical session, please contact Dave Stacey. If you want to book the table top space to promote your product or service, or if you have a suggestion for a feature subject and/or speaker, contact John Pollock, George Robb, or any other member of the executive. There is a charge of \$ 75.00 for "Table Top" demonstration space, and this includes a business card ad for two months.

2001 – 2002 ASHRAE HAMILTON CHAPTER PROGRAM ACTIVITY				
Month/Date	Theme	Tech Session 5:00 – 6:00 p.m.	Table Top Presentation	Guest Speaker/Main Topic
October 9, 2001	TEGA	Substantial Completion – The Holy Grail An Open Discussion on Commissioning and Project Occupancy		
November 13, 2001	Research	Pressurization Fans <i>(David Rasmussen, Delhi Fans)</i>	Delhi Fans	Air Supported Structures <i>James W. Gallagher (Soper's Engineered Fabric Solutions)</i>
December 1, 2001	History	Christmas Event – Niagara Under Glass – Vineland, Ontario		
January 8, 2002	Student	Air flow Measurement Devices		Air System Balancing (<i>Dave Lipsit, Air Audit</i>)
February 12, 2002	Membership		York	Underfloor Air Distribution Systems (<i>York Air Conditioning</i>)
March 12, 2002	TEGA	Heat Pump Operation	CSSI	A new Concept for Hotel HVAC <i>(Bob Rutherford, CSSI)</i>
April 9, 2002	Research	Motor Selection for Explosive Environments		Tobacco Kiln Retrofit Measures <i>(DeCloute Mfg.)</i>
May 2002	Refrigeration	Tour of Toyota Motor Manufacturing – Cambridge, Ontario		
June 2002	Membership/ Research	Annual Golf Tournament – Whirlpool Golf Course, Niagara Falls Benefits of ASHRAE and Membership		
All meetings are at the Royal Hamilton Yacht Club, North end of McNab St. on Hamilton Harbour unless noted otherwise.				

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