



Airways

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

American Society of Heating, Refrigeration and Air Conditioning Engineers

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March 2003

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Tuesday March 11, 2003

Tonight's Topic:



Moulds!!

Tonight we will learn about moulds in our living/working spaces; their causes, effects and how to deal with them.

Tonight's Speakers

Art and Frank Robinson:

Art is the President of Sick Building Solutions which incorporated in 1995. He holds a B.A. from Wilfred Laurier University, and an Environmental Specialist Certificate from the University of Toronto. He has taught Materials, Design and Processes; Environmental Science and Senior Biology over a period of 32 years and has been an expert witness in IAQ construction litigation. Art is currently involved in Research and Development on Air Improvement Systems for large commercial applications, as well as working in the field of microbiology pathogens and applied remediation techniques.

Frank joined Sick Building Solutions on a full time basis July 1st 2002, to head up the Environmental Lighting Division. He spent the last fifteen years in the lighting industry; residential, commercial and industrial at the managerial level. Frank also designed and supervised specialized lighting applications and installations. He has been assisting in product development, research and testing during the past few years.



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 Technical Program / Speaker Presentation

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



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Pre-Start Reviews & ASHRAE

Industrial facilities in Ontario must comply with the Occupational Health and Safety Act (OHSA) and many regulations, in particular Reg 851 for Industrial Establishments. Up until 1997, drawings for new and updated facilities were submitted to the Ministry of Labour (MOL) for review. This was a slow inefficient process. As a result, Section 7 of Reg 851 was amended in 1997 requiring a Pre-Development Review (PDR) be done when equipment was constructed or altered and hazardous substances were present or guarding would be required.

The scope in the PDR was so broad that reviews were difficult to do. Hatch did some of these PDRs. They involved complex investigations. The engineering community in Ontario was unhappy with this process and registered many concerns.

In October 2000, Section 7 was again amended, this time requiring a Pre-start Health and Safety Review (PSR) be done by a professional engineer when a new or modified process involved any of 8 specific circumstances – flammable liquids; safeguarding devices; rack or stacking structures; risk of ignition or explosion; dust collectors; molten material; lifting devices; and a change in occupational exposure. A written report listing any deficiencies must be completed prior to start up of the process.

To help with the review and report, the MOL and the PEO produced PSR Guidelines. For the past three years, some industries have been active in completing PSRs for their updated facilities, but many are still unaware of their obligations under the amended Section 7 of Industrial Reg 851.

ASHRAE and its members are affected by Circumstance 8 – does the new upgrade cause a change in the occupational environment? In almost every PSR, the answer is yes, hence a recommendation is included to cover this aspect. Usually more HVAC or extraction equipment is needed to be in compliance. You also need to be aware of the lowering of occupational limits on many agents – solvents, copper, fibre, etc as this also may contribute to the need for more ventilation or extraction. Make sure your clients know about Reg 851 and the new Section 7 and the need to ensure exposure limits in any new or modified facilities are designed to be below the exposure limits.

G.E. Menzies P.Eng. ROH, ASHRAE Member property.

If You Missed Last Meeting, You Missed This ...

Mr. Terry Hoffmann, Global Products Marketing Manger for Johnson Controls Inc, Milwaukee WI reviewed the issues with "Interoperability" of control systems and devices to the Hamilton Chapter of ASHRAE on February 11,2003.

His presentation reviewed the issues involved in properly specifying BACnet,Lon and integrator applications and the need to focus first on properly specifying the required sequences to provide the client with the end results they are seeking. In addition Mr. Hoffmann pointed out the need to insure that those devices controlled by or interfaced to the control system actually have the proper protocols in place and are "certified" to prevent future interfacing problems. Mr. Hoffmann also reviewed the growing need to have the facility control system interface with a wide variety of data users and the requirement to be able to automatically organize this data in a timely manner and in the formats that the users require. He speculates that there will be a greater use of WEB based services in the future to allow more user flexibility.

Steve Glover, Hamilton Chapter TEGA Chair 02/03

Message From The Editor

As I mentioned last month, I will be sending out individual emails to all members which contain their personal information as stored in our chapter database. The purpose of this exercise is so that we can publish an accurate membership roster next fall. When you get your message, please check for errors and omissions and notify me of any changes that have to be made. I expect this to happen within the next week.

Now for my tale of woe ...

I had a computer virus last week which caused a major computer failure. I had to reformat the operating system partition of my hard disk and reinstall all my software – a 24 hour (*straight*)

process. I keep all my data on a separate partition on the hard drive and this was unaffected. The only data loss I had was the last two weeks of incoming emails. To those of you who submitted articles for publication in Airways, if you sent something to me that does not appear here, I apologize. It was probably lost in the above mentioned emails. I'll catch up next month.

The virus I had is called the Nimda worm. It is about 1 1/2 years old and causes a variety of problems. I don't know how I became infected but I noticed increasingly erratic behavior of some of my programs over the past month. I had McAfee anti-virus software installed on my system but had not updated the virus database in a while so it was partially my own fault. I'll have to blame McAfee as well because their automatic virus updating procedure never worked.

I used this opportunity to switch to FSecure's virus detection program. I had a good experience with their product years ago when I first started using the internet and downloaded the latest version of FSecure. After I reinstalled my operating system and programs, I used FSecure to clean out the last remnants of Nimda from my system. It appears that I am "clean" now. As I mentioned, I am not sure when my system was infected but it is possible that this occurred before I sent out last month's Airways so I hope I have not passed this on to you. This virus can attach itself to emails but from my understanding, it would do so by attaching an executable file that the email recipient would have to run to become infected. As far as I know, pdf files (like the one which contains the newsletter) cannot spread this virus.

If you would like to know more about this, or any other computer virus, have a look at www.f-secure.com. And if you need a good anti-virus program, I recommend FSecure. It is easy to install and use and you can download and try it for free for a month (25 MB file), after which time it costs \$60, presumably \$US.

*Brian Beninger, Hamilton Chapter Airways Editor,
Webmaster 02/03*

ASHRAE GOLF TOURNAMENT

Something **NEW** for the June 11th Golf Tournament

This year we are having hole sponsorships.

**For \$700 you will receive 4 Green Fees, 4 Suppers, 4 Lunches
And 1 Hole Sponsorship c/w a sign located at the T Box.
Niagara Whirlpool is again the site of this spectacular Tournament.**

This offer is only in effect until May 13th after which time the price jumps to
\$800

Those interested please call or fax
**David Rasmussen from Delhi Industries @
(905) 575-5542**

Please indicate the hole number you wish to sponsor. An invoice will be send to you with the Terms of net 30 days from date of order payable to ASHRAE Hamilton Chapter.

Upcoming Events of Interest

Engineering Week Events Schedule - Niagara

Luncheon:

March 3, 12:30 p.m. to 2:30 p.m.

Sheraton Fallsview, Falls View Blvd, Niagara Falls.

Guest speaker Ian Stewart, from PCL, will talk about the progress of the Niagara Casino construction; at \$500 million it is currently the largest provincial construction project. Tickets are \$30.00 each (tables of eight available) includes door prize and technical session fee. Contact Ed Dujlovic, 905-356-7003 or edujlovic@niagara.com

Events:

March 3, 8:30 a.m. to 11:30 a.m.

Two sessions co-sponsored by ITE and APWA. At the Sheraton Fallsview, Fallsview Blvd, Niagara Falls.

Subjects will include Roundabout Design Issues and Subsurface Engineering. For more information, please contact Simon Tam at 905-546-2048 or Sal Iannello at 905-835-2900 or saliannello@portcolborne.com. Fee is included in luncheon ticket, however pre-registration is appreciated. Light breakfast is included.

March 3, 11:00 a.m. to 12:30 p.m.

Sir Winston Churchill Secondary School's Canada First Robotics Team entry will be on putting on a demonstration at the Sheraton Fallsview. There is no charge or pre-registration. Contact Ralph Scholz, 905-984-3644 or ralph.scholz@regional.niagara.on.ca

March 4, 5, 7

Local engineers will be going into about 15 schools and reaching over 250 grade 7 and 8 students. They will be providing a fun and informative program to introduce these kids to engineering and encourage them to pursue an engineering career. For more information or to volunteer, contact Jeff Jager at 905-688-6550 or ktheng@vaxxine.com

March 5 and 6, afternoon

Tour the New Niagara Casino Construction site. Two tours will be conducted, space is limited so pre-registration is encouraged. Contact Ed Dujlovic, 905-356-7003 or edujlovic@niagara.com

ASSEMBLY CANADA and the CANADIAN HIGH TECHNOLOGY SHOW

March 12 9:00 a.m. - 6:00 p.m.

March 13 9:00 a.m. - 6:00 p.m.

Arrow Hall, International Centre, Toronto, Ontario

<http://www.hightechassembly.ca>

Canada's advanced manufacturing technology event for assembly & electronics manufacturing, featuring the latest equipment and solutions to help you increase capacity, reduce costs, implement innovative solutions and maximize productivity and profits.

Go to <http://www.exporeg.com/chts/register.htm> to register your entire team for FREE trade show admission.

Assembly Canada is Canada's only trade show dedicated exclusively to the function of assembling discrete parts into finished products.

Canadian High Technology Show is Canada's only forum for industry professionals to assess and compare the latest products and services for electronics manufacturing. Go to <http://reedexpo.ca/assembly/ExhibitorList.asp> to see a complete list of exhibitors and represented companies.

2002 - 2003 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, book the table top space to promote your product or service, or if you have a suggestion for a feature subject and/or speaker, please contact please contact Chris McClelland, our Programs Chair. There is a charge of \$ 75.00 for "Table Top" demonstration space, and this includes a business card ad for two months.

2002 – 2003 ASHRAE HAMILTON CHAPTER PROGRAM ACTIVITY				
Month/Date	Theme	Tech Session 5:00 – 6:00 p.m.	Table Top Presentation	Guest Speaker/Main Topic
March 11, 2003	History	Hamilton Chapter History <i>(George Menzies)</i>		Mould (<i>Art and Frank Robinson, Sick Building Solutions</i>)
April 8, 2003	Research	Kyoto Protocol – Impact On The Heating Industry <i>(Harald Prell, Viessmann)</i>	Viessmann	Condensing Boilers Technology Maximizing Energy Dollars <i>(Harald Prell, Viessmann)</i>
May 13, 2003	Student	Combo System Basics <i>(Mick Galagher, Rheem Canada)</i>	Trimed	Odour & Microbial Control <i>(Henry Berman, Trimed)</i>
June 11, 2003	Membership	Annual Golf Tournament – Whirlpool Golf Course Benefits of ASHRAE and Membership		
September 9, 2003	TEGA	Armaflex Insulation		Proper Silencer Selection
October 14, 2003	History	Fire Damper Installation <i>(Nailor Group)</i>		Casino Construction <i>(Don Cruikshank, TMP Niagara)</i>
November 11, 2003	Research	Residential Water Purification		The Building Envelope <i>(Tony Woods, Canam)</i>

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

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 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!!

Steve Glover, Hamilton Chapter T.E.G.A. Chair, (905) 335-3325 steve.e.glover@jci.com

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