



Airways

Hamilton Chapter No. 037

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

American Society of Heating, Refrigeration and Air Conditioning Engineers

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Our 46th Year

October 2004

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Tuesday, October 12, 2004

Open Systems in Building Controls – LonWorks

This month's presentation will discuss Open Systems in Building Controls with an emphasis on LonWorks. The following topics will be covered:

1. The value of Open Systems,
2. Open Systems defined,
3. LonWorks & BACnet – a perspective and
4. Specifying Open Systems.

About LonWorks . . .

Since 1988, LonWorks – Echelon's solution to open systems – has been adopted by thousands of device and system manufacturers. Millions of connected LonWorks devices have been installed into buildings, factories, transportation systems, homes, utilities and other applications worldwide.

Lonworks enables end-users to remotely connect, monitor, control, sense and diagnose intelligent devices. You can find them in every aspect of the device networking environment – from HVAC and lighting in buildings to collecting energy usage information or data across a grid of 27 million homes – 24 hours a day. LonWorks networks simplify system management, conserve energy, improve operations and reduce costs.

Feature Speaker:

Frank Mesicek, C.E.T. PMP
Airon HVAC and Control Ltd.

Frank Mesicek brings 20 years of experience in building automation and controls to our October meeting. Frank's roots are in energy management with early roles at the Toronto Board of Education and Enershare Technologies Inc. With a background



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



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in energy performance contracting, Frank moved to Honeywell where he worked for 15 years. Presently, Frank is a building automation system (BAS) project manager with Airon HVAC and Control Ltd., Honeywell's largest authorized controls integrator.

Technical Session

Frank Mesicek, C.E.T. PMP
Airon HVAC and Control Ltd.

This month's Technical Session will cover pneumatic controls and the challenges presented when facilities convert to a DDC building automation system. Frank has significant experience in this area and will address the following question:

"If a facility is to continue operating existing pneumatics, how do you integrate DDC as an interim step to achieve operating efficiency and better control?"



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September Meeting Recap

Fortunately, Team Canada won the World Cup (ugly trophy though).

Unfortunately, a lot of members missed out on an excellent evening.

George Menzies enlightened us on changes and requirements for the proposed harmonized confined space regulation. The definition of a confined space certainly expanded my knowledge of potential dangerous situations that I would not have considered.

George presented the following key issues:

- Education
- Space Gas Testing
- Ventilation
- Access & Egress
- Work Permits
- Rescue Equipment
- Gas Monitoring Devices

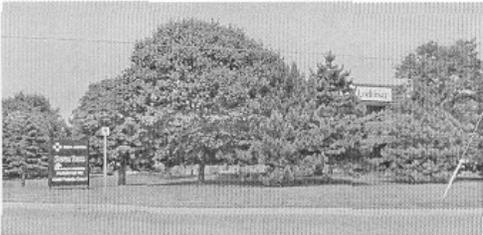
Jack Fitzmaurice (O'Dell Associates Inc.) then took the topic of Gas Monitoring Devices and brought us up to date on the latest technology available. First he challenged us with a test on our basic understanding of gas monitoring (I displayed my usual 50% scoring level in science) and then thoroughly educated us with the rest of his presentation.

Ralph Kosir was recognized for his exemplary year as President and his leading of the executive team to numerous awards — which I received (on his behalf) at the CRC in Toronto in August. Ralph was also presented with a certificate of appreciation for his work as President from headquarters.



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As a Past President, Ralph moves into the Research Chair and will extend the goal achieving efforts of George Robb's winning two year accomplishment. Let's support Ralph in every way possible!

This space could be yours!

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

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

Wilf Laman has quietly (or quiet-aire?) slipped into the Treasurer Chair to allow Nathan Martin to take over Programs, replacing Chris McLelland, who has been placed on the injured reserve list. So send Wilf your dinner plan money, Nathan your program ideas and Chris a get-well card.

Bill McCartney, President 04/05

George Buckler's Passing

George W. Buckler, an ASHRAE member for over 44 years and Life Member since 1992, passed away peacefully on Monday, September 27, 2004 after a lengthy and, as you might expect from George, courageous battle with Parkinson's disease and cancer.

George was transferred to Hamilton from Halifax with Crane Supply Ltd. and then worked for Rheem Canada for 25 years. He was a tireless worker for ASHRAE and the Hamilton Chapter. After serving as Hamilton Chapter President in '73-'74, George was Region 2 MP RVC, Region 2 DRC and then Society Vice President.

Online condolences can be sent to mundelfh@ns.sympatico.ca.

This space could be yours!

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(includes \$15.00 Setup Charge)**

***Changes can be made at any time for an
additional \$15.00 Setup Charge***

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A Note from the Treasurer

Please confirm your meeting attendance to wلمان@quiet-aire.com.

Many years ago, we had a telephone committee to call all chapter members for reservations at our monthly meetings. We stopped doing

this around 1992 (The Hillcrest Days).

We have been getting away with reservations for between 25 and 30 people without confirmations from our members. We have been caught a few times not meeting our numbers e.g. "911". Last month, we only had an attendance of 14 when we had made reservations for 25 to 30 people. It was obvious with the quantity of food displayed on the buffet table that RHYC was prepared. The problem lies with the fact that we will have to pay for our reservations.

We tow-the-line quite finely with respect to finances and would appreciate your support — please send me a quick e-mail if you are planning to attend. It is only a quick mouse click and "Yes, I will be attending".

Thanks,

Wilf Laman, P. Eng., Treasurer 04/05

RESOURCE & PROMOTION (RESEARCH)

As we begin our New Year, efforts to raise research funds are vital to continue with the development and understanding of various HVAC aspects. As Green Building Designs expand, it is important for us to document criteria and establish test guidelines to support these efforts. ASHRAE Research provides for a prosperous Industry and Improves the Quality of our Lives. The research dollars go towards, IAQ, Energy, Fire & Safety, Refrigeration Systems, Environmentally Safe Refrigerants, Food Processing & Preservation and other innovative ideas. We appreciate your support in the past and look forward to your continued support this year. We will be forwarding letters and calling for donations. Honour roll status is achieved at \$100.00 per person and \$150.00 per company. However any level of support is appreciated.

Ralph Kosir, P. Eng., Research Chair 04/05

Upcoming Events of Interest

ISH North America
Oct. 14 – Oct. 16, 2004
Boston, MS
ishna@usa.messefrankfurt.com

**ASHRAE Winter Meeting
(including AHR Expo)**
Feb. 5 – Feb. 9, 2004
Orlando, FL
www.ashrae.org

Corrosion and Odour Control . . .

The problem of corrosion in industrial environments such as refineries, pulp and paper plants and chemical factories is as old as industry itself. Unlike hard corrosion which causes physical degradation of equipment, soft corrosion attacks the process control systems with minimal visual signs. Operations managers have long realized that electronic components are at the mercy of the gases and acids that such environments contain. As a result, corrosion of these components causes production stoppages, increased production costs, higher maintenance budgets and lower productivity.

The problem of corrosion is never caused by a single factor and cannot be resolved by a single solution. ISA set classifications to identify the type of equipment needed to address the environment.

ISA Standard 571.04 Classifications

- | | |
|----------------------|--|
| G1 – Mild | An environment sufficiently well-controlled such that corrosion is not a factor in determining equipment reliability |
| G2 – Moderate | An environment in which the effects of corrosion are measurable and may be a factor in determining equipment reliability |
| G3 – Harsh | An environment in which there is a high probability that corrosion attack will occur. These harsh levels should prompt further evaluation resulting in environmental controls or specially designed and packaged equipment |
| GX – Severe | An environment in which only specially designed and packaged equipment would be expected to survive. |

Submitted by Ralph Kosir, P. Eng., Research Chair 04/05

2004 – 2005 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.

2004 – 2005 ASHRAE Hamilton Chapter Program Activity				
Date	Theme	Technical Session 5:00 pm – 6:00 pm	Table Top Demonstration	Feature Speaker
October 12, 2004	Controls	Frank Mesicek, C.E.T. PMP <u>Airon HVAC and Control</u> Pneumatic Controls	<u>Airon HVAC and Control</u>	Frank Mesicek, C.E.T. PMP <u>Airon HVAC and Control</u> Open Systems in Building Controls – LonWorks
November 9, 2004	Industrial	Allan Antcliffe, P. Eng. <u>Madok Manufacturing</u> Heating/Cooling Coil Selection		Oscar Nespoli <u>Wescam</u> Cameras and A/C
December 11, 2004 (Saturday)	Family	Family Christmas Event – Lunch and Tour of Niagara Falls Aviary		
January 11, 2005	Refrigeration	Bill McCartney <u>Isotherm Engineering</u> Ontario Regulation 189/94		Ron Vallort History of Refrigeration
February 1, 2005 (moved up 1 week due to ASHRAE Orlando meeting)	Legal	Liability Insurance		Howard Wise Construction Lien Act
March 8, 2005	Design	Open Spaces		Isolation Rooms
April 12, 2005	Moisture	Kitchen Exhaust Energy Calculations	<u>O'Dell Associates</u> <u>Spring Air</u>	Spring Air Variable Speed Kitchen Exhaust
May 10, 2005	Tour	Tour of Toyota Motor Manufacturing Canada (Cambridge facility)		
June 8, 2005	Research	Annual Golf Tournament		

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