



Airways

Hamilton Chapter No. 037

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American Society of Heating, Refrigeration and Air Conditioning Engineers

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Our 50th Year

October 2008

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Tuesday, October 14, 2008

Wireless Field Controller Bus Communications

ASHRAE is adding wireless communications capabilities to the BACnet standards using ZigBee™ technology with BACnet messaging. ZigBee provides inherently reliable, ad hoc forming, self-healing wireless radio communication capabilities. This session will review and explain the concepts, illustrate the perceived and real radio interference issues, and show how it can provide for lower installation and lower life cycle costs for buildings owners.

Feature Speaker

Joseph H. Klotz, CEM

Johnson Controls Product Sales Manager

Joe is responsible for all Johnson Controls product sales in Canada, including all BAS, HVAC and refrigeration controls and control devices, VFD's, fire, security and DVN systems sold through JCI Branches and independent third party channels. Joe has been in the HVAC / BAS industry since 1981 as a facilities manager, public works director, international business manager, and as CEO of a BAS manufacturer. Joe graduated from the University of Alaska Fairbanks with a BS in Natural Resources Management. He is an ASHRAE member, and a member of the Association of Energy Engineers.

Tabletop Demonstration

Johanna Mitsopoulos

Johnson Controls Regional Product Account Manager

Johanna will have a table top display of wireless BACnet products.

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

Chapter Members - \$30.00 • Guests - \$40.00 • Students - \$15.00 • Meal Plan - \$150.00

President's Report

Jason Slusarczyk, Darron Chin-Quee and Michael Roth from Rowan Williams Davies & Irwin Inc. (RWDI) explained, in detail, some of the great work they are doing world-wide. We thank them for their time and efforts and wish them the best of luck in their future endeavours.

October's meeting will be held at the Royal Hamilton Yacht Club with Joseph Klotz from Johnson Controls presenting ASHRAE's addition of wireless communications capabilities to the BACnet standards using ZigBee™ technology with BACnet messaging. The table top display of Wireless BACnet Products will be presented by Johanna Mitsopoulos, also from Johnson Controls.

Please be sure to RSVP to Wilf Laman – wflaman@vaxxine.com to confirm your attendance.

For November's meeting, we are planning a session on Hydrogen Assisted Renewable Power Storage.

Time slots are still open for table top demonstrations January through May, please contact me if you are interested in participating. The cost is only \$75.00 to present your technology for 15 minutes in front of the Chapter's audience.

Best Regards,

Terry Fowler, P. Eng., President 08/09

Upcoming Chapter Meetings

Tuesday, Nov. 11/08

Theme: Research

Representatives from H2 Green will talk about **Hydrogen Assisted Renewable Power**.

Tuesday, Nov. 18/08 (All Day/Special Seminar)

Theme: Commissioning

The ASHRAE Hamilton Chapter is holding an all day seminar on **The Commissioning Process for New and Existing Buildings**. The seminar will be lead by Bill McCartney, ASHRAE Hamilton Chapter member.

Additional details and a registration form are attached.

Upcoming Events of Interest

PM Expo

December 3 – 5, 2008
Metro Toronto Convention Centre
www.pmexpo.com

ASHRAE Winter Meeting (including AHR Expo)

January 24 – 28, 2009
Chicago, IL
www.ashrae.org
(Click on Meetings & Events)
or www.ahrexpo.com

ASHRAE News Releases

ASHRAE Seeks to Engineer Tomorrow . . . Today in Windy City

ATLANTA – Chicago, with one of the most recognizable skylines in the world, has long-standing status as a livable urban center. That the city has stood the test of time makes it the perfect backdrop for ASHRAE's 2009 Winter Conference theme, *Sustainable Urban Design: Engineering Tomorrow . . . Today*.

Changes Proposed for ASHRAE Standards, Guidelines

ATLANTA – ASHRAE is currently accepting public input on more than 35 proposed addenda to standards as well as a proposal to withdraw Standard 52.1.

ASHRAE/IESNA Standard 90.1-2007 User's Manual Makes it Easier to Save Energy

ATLANTA – A revised user's manual will assist users of ASHRAE/IESNA energy conservation standard in energy efficient design.

New Ventilation Design Requirements for Health Care Facilities Available from ASHRAE

ATLANTA – Just like the right dose of medicine can improve health, proper ventilation is an integral part of patient's well-being in health care facilities.

**Click anywhere to go to the
ASHRAE Press Release web page**

ASHRAE Returns to Chicago for Winter Conference and AHR EXPO

Chicago, with one of the most recognizable skylines in the United States, has long-standing status as a livable urban center. That the city has stood the test of time makes it the perfect backdrop for this year's ASHRAE Winter Conference theme: *Sustainable Urban Design: Engineering Tomorrow... Today.*

The Palmer House Hilton will once again host ASHRAE January 24 – 28, with the ASHRAE co-sponsored AHR Expo taking place Jan. 26-28 at McCormick Place. The conference promises to be a great way to kick off the new year, with opportunities to interact with colleagues, learn technical information, and hear Keynote Speaker Chris Luebke of Arup speak on sustainability and thoughtful design and Technical Plenary speaker Adrian Bejan, Ph.D., explain technical evolution through "constructal theory" which he says can predict how everything flows through time and space.

The technical program highlights the conference theme and will feature presentations on energy conservation, indoor environmental quality, sustainability efforts and more that will help you earn your PDHs. Seeking to create additional value for Expo and Conference attendees, ASHRAE is launching "Wednesday Welcome," at which all ASHRAE technical program sessions on Jan. 28 take place at McCormick Place. The "Wednesday Welcome" includes 18 hands-on, applications-type programs, held from 9 a.m. to 1:30 p.m., leaving the afternoon open to tour the Expo with more than 1,850 exhibits covering a world of equipment, systems, components and technology for the building industry. Admission to the "Wednesday Welcome" is included with your full ASHRAE Winter Conference registration or you can purchase a ticket for the full day for \$99.

You can also earn PDHs and CEUs at Professional Development Seminars and Short Courses brought to you by the ASHRAE Learning Institute.

Networking opportunities and chances to see Chicago are plentiful at the ASHRAE Winter Conference. Meet

with old friends at the Welcome Party, Presidents Luncheon and Member's Night Out. Technical tours of the city take you to the Intercontinental Hotel and The Art Institute of Chicago and you can see mansions and temples of the city, or take a cooking class on one of the general tours.

For complete, updated information and to register for the ASHRAE Winter Conference, go online to www.ashrae.org/chicago. Visit www.ahrexpo.com to learn more about the AHR EXPO.



"Gold Cards"

Want to invite someone to an ASHRAE Hamilton Chapter meeting?

"Gold Cards" are available at a cost of \$150.00 for a package of four (4) cards. These cards can be handed out to customers or associates and are the equivalent of a "guest" registration for a Chapter meeting.

If interested, please speak to an executive member.

*Allan Antcliffe, P. Eng.,
Homepage and Airways Editor 08/09*

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2008 – 2009 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). New products and/or services may be presented informally via a "technical session" or a "table top demonstration" prior to dinner. 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 Terry Fowler (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 Table Top Demonstration	Feature Speaker
October 14, 2008	C.T.T.C.	Johanna Mitsopoulos <u>Johnson Controls</u> New BACnet Standard for Wireless	Joseph Klotz, CEM <u>Johnson Controls</u> New BACnet Standard for Wireless
November 11, 2008	Research Promotion	H2 Green Hydrogen Assisted Renewable Power	H2 Green Hydrogen Assisted Renewable Power
November 18, 2008 (All Day Event)	Special Seminar Event	Bill McCartney The Commissioning Process for New and Existing Buildings The Travelodge – Burlington	
December 1, 2008	Historical	Chapter Fun Night — Dinner & Wine Tasting Purple Pear – Barton Street, Hamilton	
January 13, 2009	Student Membership	none	<u>University of Waterloo</u> Career Night
February 10, 2009		none	<u>Brock University – St. Catharines</u> Brock University Tour -- LEED AP
March 3, 2009 (Not 2nd Tuesday)	Integrated Building Design	none	Thomas Lawrence, Ph.D., P.E., LEED-AP <u>ASHRAE Distinguished Lecturer</u> Integrated Building Design
April 14, 2009	Refrigeration	none	Speaker to be determined <u>Sleeman / Lakeport Tour</u>
May 12, 2009	C.T.T.C.	President's Message SP180 - Maintain to Sustain	Bill Harrison <u>Company?</u> Topic to be determined
June 10, 2009 (not 2 nd Tuesday)	Social/ Research	Peninsula Lakes (near Fonthill, ON) Annual Golf Tournament	

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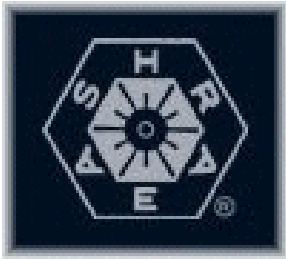
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ASHRAE Hamilton Chapter

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



American Society of Heating, Refrigeration and Air Conditioning Engineers (ASHRAE)

Hamilton Chapter

www.vaxxine.com/ashrae/

The Commissioning Process for New and Existing Buildings

DATE: Tuesday, November 18th, 2008

TIME: 8:30 am to 3:30 pm

LOCATION: Travelodge Hotel, Burlington on the Lake
2020 Lakeshore Road, Burlington, ON L7R 4G8

Course Outline:

- I. Introduction
- II. Benefits of Commissioning in New and Existing Buildings
- III. The Commissioning Process in New Buildings
- IV. The Commissioning Process in Existing Buildings
- V. Documentation Requirements
- VI. Specifying Commissioning
- VII. Economics of Commissioning

Course Description:

Attend this course and learn how the building commissioning process can be applied cost-effectively to new construction and to existing facilities, with a strong emphasis on existing facilities applications. In this introductory course, you will learn the fundamentals of the commissioning process through each step of a new construction project from pre-design to occupancy and operations. You will also learn how the application of the commissioning process in existing facilities differs from new construction. Learn about the benefits of commissioning and gain an appreciation for how the process can improve the built environment, reduce environmental impacts through responsible resource utilization, improve the quality of design and construction, and raise the professional reputation of the entire commissioning team. We will discuss commissioning documentation, including an overview of commissioning specifications for new construction. You will take away compelling information and case studies that demonstrate the value of investing in the commissioning process.

Documentation:

Each attendee receives a copy of ASHRAE Guideline 0-2005, *The Commissioning Process*.

Speaker Bio:



Bill McCartney is the president of HVAC Commissioners Inc. which was founded in 1989. He is also vice-president and partner of Isotherm Engineering Ltd. which was founded in 1975. He provides new building commissioning services from planning through occupancy, re-commissioning for existing commissioned buildings, and retro-commissioning services for existing systems. He has commissioned hospitals, long term healthcare facilities, water treatment plant, office buildings, high rise residential, library, corrections facilities, performing arts centers, casino, hockey rinks, church, university, colleges, and schools. Previously, he was a partner in Trisar Limited from 1978 – 93, a company specializing in HVACR design-build and maintenance serving the petro-chemical industries in the Sarnia area. He started out in Toronto in 1966 with Beaver Engineering Ltd. in the construction division and was eventually moved to London as branch manager on 1974.

Bill has been a member of ASHRAE since 1974, has belonged to the London, Toronto, and most recently the Hamilton chapter, where he served as president from 2004 through to 2006. He is a member of ASHRAE Technical Committee 7.9 “Building Commissioning;” a past-chair and still member of TC 7.3 “Operation and Maintenance Management” and a member of GPC 4 which recently published Guideline 4 – 2008, “Preparation of operating and Maintenance Documentation for Building Systems“. He has been on the Handbook Committee since 1998 and is the chair for the 2010 Refrigeration Volume. He received the Distinguished Service Award on 2007.

Bill is past president of the ORAC (Ontario Refrigeration Air Conditioning Contractors), past-president of the CRACCA (Canadian Refrigeration Air Conditioning Contractors Association), past chairman of HRAI (Heating Refrigeration Air conditioning Institute), and a current member of BCA (Building Commissioning Association).

**For immediate inquiries or to be added to the distribution list for this event,
please contact Bill McCartney:**

E-mail – w.mccartney@isothermengineering.com

Telephone – 905-822-2430

Fax – 905-822-5182



The Commissioning Process for New and Existing Buildings

Registration Form

FEES:

Until October 22nd, 2008:

ASHRAE Hamilton Chapter Members — \$300.00
Non-Members — \$375.00

After October 22nd, 2008:

ASHRAE Hamilton Chapter Members — \$350.00
Non-Members — \$450.00

Fees include documentation, a light lunch and mid-session refreshments.

Deadline for registration and payment is November 10th, 2008.

Note: Payment must be received in advance of the registration deadline.

Please e-mail or fax your completed registration form to:

ASHRAE Commissioning Seminar – Attention: Bill McCartney

E-mail: w.mccartney@isothermengineering.com

Fax: 905-822-5182

Then forward your cheque to:

Isotherm Engineering Limited

37–2133 Royal Windsor Drive, Mississauga, ON L5J 1K5

Attendee Information:

Name(s): _____

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Daytime Telephone: _____ E-mail: _____

Company Name & Mailing Address:

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