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Tuesday, November 13, 2012

Proving It's Green, Keeping It Green

The move towards a better built environment was started with the initial energy crisis in the 1973. Over the last four decades, this evolution was driven by improved architectural, mechanical, and electrical design concepts. Starting in the early 80s, the commissioning process for HVAC systems was developed by ASHRAE and the guideline was published in 1989. Lately, with the added benefit of renewable energy sources, the complexity of the building and its systems has risen to an extremely high level. Therefore, the confirmation that the total building is performing to the design intent, that the technology transfers from the two dimensional design to the three dimensional real world, and that the assurance that this will continue to operate as intended through-out the life cycle of the building, is imperative. The presentation will demonstrate the necessary steps required to accomplish these objectives.

Feature Speaker

Bill McCartney, Director, Commissioning Services Isotherm Engineering Ltd.

William (Bill) McCartney has over forty-six years experience in the HVAC&R industry and holds a Trade Certificate as a Refrigeration and Air Conditioning Mechanic. He started working in Toronto in 1966 for a design-build HVACR contractor in the construction department. He returned in 1971 after two years with another contractor and was relocated in 1974 to London, Ontario as the branch manager. *(continued on next page)*

IMPORTANT – Please RSVP to John Molnar – johnm@odellassoc.com by Nov. 8th, 2012 as we must give the Grand Valley Golf Club a count of the number of people attending.

Grand Valley Golf Club

1910 Roseville Road, Cambridge, ON N1R 5S3
(Click here for directions)

5:30 pm – Social Hour / Cash Bar

6:00 pm – Buffet Dinner – followed by Feature Speaker

Dinner / Feature Speaker

Chapter Members - \$30.00 • Guests - \$40.00 • Students - \$15.00




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Bill McCartney bio. (cont'd.)

In 1978 Bill became a partner in a mechanical contracting and maintenance company in Sarnia, Ontario. In 1989, he formed HVAC Commissioners Inc., providing independent commissioning services in south-western Ontario. Bill returned to Toronto in 1997 to a partnership in Isotherm Engineering Ltd. and his role as Director, Commissioning Services. He has been a member of ASHRAE since 1974 and served on many Technical committees including Operation & Maintenance Management and Building Commissioning. Bill is a lecturer for the ASHRAE Learning Course "[The Commissioning Process for New and Existing Buildings](#)". He is the recipient of the ASHRAE Distinguished Service Award 2007. He earned his ASHRAE certification as Commissioning Process Management Professional (CPMP) in 2009. He has served on and chaired industry associations such as Ontario Refrigeration & Air Conditioning Contractors, Canadian Refrigeration and Air Conditioning Contractors Association and Heating, Refrigeration, Air Conditioning Institute of Canada. Bill is founding Board Member for the Eastern Canada Chapter of the Building Commissioning Association and serves on the International Board as a director at large.

President's Report

On Tuesday, October 2nd, we held our second meeting at the Royal Hamilton Yacht Club. It was good to be back at our old location. My thanks to the staff and Wilf Laman for making the arrangements and ensuring the meeting went smoothly.

On behalf of chapter, I would like to extend a special thanks to our guest speaker, Mr. Dan Int-Hout, ASHRAE Distinguished Lecturer visiting us from Krueger in Richardson, TX. The feature presentation was on Selecting VAV for Acceptable Indoor Air Quality. Attendees learned about the importance of proper engineering specifications and designs for this product range. Dan also took the time to point out some very important updates on the latest rules, ASHRAE guidelines and information regarding VAV box types, linings, accessories and airflow limitations. I would also like to thank all the members that attended the meeting. We hope that this meeting was informative and you benefitted a great deal from the topic and the items covered.

As mentioned on the cover page our next meeting will be on the 13th of November, 2012 at the Grand Valley Golf Club in Cambridge. The topic – "Proving It's Green, Keeping It Green" – will be presented by Bill McCartney. I request everyone to join us for this meeting – and please invite your colleagues – and gain some valuable insights on this topic which deals with ensuring our many highly efficient designs operate and stay efficient during the entire life cycle of the facility. Bill will be giving us some important strategies and ideas on how to keep these facilities operating at their optimum level. Keep in mind that these face to face meetings are a great opportunity to network with other HVAC industry personnel.

The holidays are less than two months away and we are planning a special event in honor of Past Presidents on December 2nd at the Flamboro Downs Race Track starting at 5 pm. The flyer and contact information is at the end of the Airways. Please be sure you keep the date open and invite your co-workers, family and friends to join us for this event.

Finally, I am looking for suggestions and insight into the preferences on our programs and meetings from our membership. Please feel free to contact me if you have any suggestions.

Best Regards,
Reaz Usmanali, LEED AP, President 12/13


Next Meeting Past Presidents & Ladies' Night Sunday, December 2, 2012

Our Chapter Social Chair, David Rasmussen has planned our annual Past Presidents & Ladies' Night for Sunday, December 2, 2012.

Additional information is attached to this Airways bulletin. Please plan to attend this "social" evening to support the Chapter and David's efforts.

*Submitted by
Allan Antcliffe, P.Eng.
Homepage & Airways Editor 12/13*

Airways – ASHRAE Hamilton Chapter – 2012/2013 Sponsors



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Upcoming Events

Cold Climate HVAC 2012

November 12–14, 2012

Calgary, AB

www.ashrae.org/coldclimate

ASHRAE Winter Conference & AHR Expo

January 26–30, 2013

Dallas, TX

www.ashrae.org or www.ahrexpo.com

Position Advertising in "Airways" Bulletin

Position advertising is now available in the "Airways" Bulletin. The cost will be \$85.00 per (reasonable sized) insert and will run for a period of 3 issues (unless the position is filled).

Any advertising insert **MUST** be provided as a single .jpg file. You can scan your ad and send me the file or provide me with a hard copy which I will scan and insert.

*Submitted by
Allan Antcliffe, P.Eng.
Homepage & Airways Editor 12/13*

Business Card Advertising in "Airways" Bulletin

As always, you can place a business card ad in the "Airways" Bulletin. The cost will be \$85.00 per card (\$170.00 for a double sized ad) and will run the balance of the year (until the June issue).

Your business card ad **MUST** be provided as a single .jpg file. You can scan your business card and send me the file or provide me with a business card which I will scan and insert.

*Submitted by
Allan Antcliffe, P.Eng.
Homepage & Airways Editor 12/13*

ASHRAE Honors & Awards

Attached to this *Airways* bulletin is a 2012 - 13 Honors and Awards Committee Personal Awards Update.

*Submitted by
Wilf Laman, P.Eng.
Member - Honors & Awards Sub-Committee*

ASHRAE News Releases

Mandatory Commissioning for All Buildings Proposed for Green Building Standard

ATLANTA – Commissioning for all buildings designed and built under a green building standard from ASHRAE, the U.S. Green Building Council (USGBC) and the Illuminating Engineering Society (IES) would become mandatory under a new proposal open for public input.

IAQ 2013 Examines Environmental Health in Low Energy Buildings

ATLANTA – ASHRAE announces a call for abstracts for IAQ 2013, Environmental Health in Low-Energy Buildings. The conference will examine IAQ thermal comfort, source control, air cleaning, ventilation, exposure and related environmental health concerns associated with low energy building design, construction, retrofit and operation.

Cold Climate HVAC Conference Advances Building Research and Design

ATLANTA – Papers providing an international perspective on the current state of design and practice of buildings in cold climates will be presented at the 7th International Cold Climate HVAC Conference, Nov. 12-14, 2012 in Calgary, AB, Canada.

ASHRAE Brings Technology, People Power in Support of Engineering for Change

ATLANTA – ASHRAE has joined forces with an international engineering program to encourage its members to use their knowledge and technology to meet humanitarian challenges across the globe.

Click to go to ASHRAE Pressroom

2012 – 2013 Meeting Schedule

This year's meeting schedule is summarized below. 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 John Molnar (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
Tues., Nov. 13/12 <u>Grand Valley G.C.</u>	C.T.T.C.	tbd	Proving It's Green, Keeping It Green Bill McCartney <u>Isotherm Engineering</u>
Sun., Dec. 2/12	Social	Past Presidents & Ladies' Night -- Flamboro Downs	
Closest Game Night to Tues., Jan. 8/13	Membership YEA	Tour of <u>Copps' Coliseum</u> & Hamilton Bulldogs Hockey Game	
Tues., Feb. 12/13 <u>Grand Valley G.C.</u>	C.T.T.C.	tbd	How the Smartphone is Going to Save the Planet and your Wallet John Coghill <u>Company???</u>
Tues., Mar. 19/13 <u>Royal Hamilton Yacht Club</u>	History	O'Dell / LG	VRF & Code Requirement John Molnar, B. Eng., LEED AP <u>O'Dell Associates</u>
Mon., Apr. 8/13 <u>Otello's - Oakville</u>	Membership	"Leadership" Victor Goldschmidt, ASHRAE Distinguished Lecturer Joint Meeting with ASHRAE Toronto Chapter	
Tues., May 7/13 <u>Grand Valley G.C.</u>	C.T.T.C.	tbd	Motor Types -- OEM vs Aftermarket How They Work/Features/Benefits Rob ??? <u>ECM Technology</u>
Wed., Jun. 12/13	Social/ Research	Annual Golf Tournament Whirlpool -- Niagara Falls	

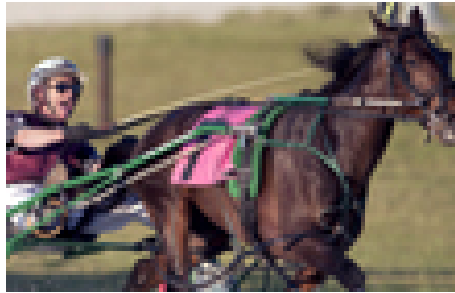
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ASHRAE Hamilton Chapter
<http://www.vaxxine.com/ashrae/>

Past President Ladies Night

A Night at the Races



Open to Anyone 19 years/ older

Date: SUNDAY December 2, 2012

Cost: \$45 per person

Time: 5pm- 9pm

Horse Races start at 6 pm

Fee includes Buffet Supper, Parking, Race Program, \$5 Coupon toward the Slot Machines.

Note: Our last event here 8 years ago was a huge success. Please send me an email and indicate the number of people attending.

Email: tigerdave60@yahoo.ca

David Rasmussen
Social Chairman 2012-2013

2012 – 13 Honors and Awards Committee Personal Awards Update

Do you know that ASHRAE's awards fall into six categories:

- Personal Honors;
- Personal Awards for General Society Activities;
- Personal Awards for Specific Society Activities;
- Paper Awards;
- Society Awards to Groups or Chapters; and
- Chapter and Regional Awards?

There are two important deadlines for submission of nominations to the Society Honors and Awards (H&A) Committee:

Dec. 1: Honorary Member, Fellow, F. Paul Anderson, Distinguished Public Service, Hall of Fame and Pioneers of the Industry awards.

May 1: Louise & Bill Holliday Distinguished Fellow, Andrew T. Boggs Service, Distinguished Service (DSA), Exceptional Service (ESA) and Distinguished 50-Year Member awards.

There are other awards, such as the E. K. Campbell Award of Merit, the Lincoln Bouillon Award and the John F. James International Award to name a few, that are recommended by selecting bodies other than the H&A Committee. Details such as criteria, selecting body, other deadlines, required documentation and nomination forms about all awards can be found at: www.ashrae.org/honors in easy to read text, via spreadsheet and PowerPoint format.

If you need additional information, guidance and/or have a question(s), please feel free to contact Rosy Douglas at ASHRAE Headquarters, rdouglas@ashrae.org.

Are you aware that you can "self nominate" for the Distinguished Service Award (DSA) and the Exceptional Service Award (ESA)?

Since these awards are granted on the basis of a point count for service to ASHRAE, you are the most knowledgeable person to determine your past services to the Society. Just be sure you're your ASHRAE Biographical Record on the website is up to date and accurate (no double counts such as points for member and chair of the same committee for the same time period) and that your "bio" lists start and end dates for each activity.

Remember that members can only be recognized for services and/or outstanding technical achievements by the granting of ASHRAE Honors and Awards if members take the time and effort to make nominations.

For forms and information, visit the H&A Web page at www.ashrae.org/honors.

Wilf Laman
Member Honors & Awards Sub-committee

ASHRAE Learning Institute

Seminars & Courses at ASHRAE's Winter Conference and AHR Expo in Dallas, TX

2 WAYS TO REGISTER

Internet: www.ashrae.org/dallascourses

Phone: Call 1-800-527-4723 (US and Canada) or 404-636-8400 (worldwide)

Full-Day Professional Development Seminars

\$485/\$395 ASHRAE Member -- Earn 6 PDHs/AIA LUs or .6 CEUs

The Commissioning Process in New & Existing Buildings
Saturday, Jan 26 – 8:00 a.m. to 3:00 p.m.

Data Center Energy Efficiency
Saturday, Jan 26 – 8:00 a.m. to 3:00 p.m.

Healthcare Facilities: Best Practice Design & Applications
Saturday, Jan 26 – 8:00 a.m. to 3:00 p.m.

Complying with Standard 90.1-2010
Tuesday, Jan 29 – 9:00 a.m. to 4:00 p.m.

**Energy Modeling Best Practices and Applications:
HVAC/Thermal**
Tuesday, Jan 29 – 9:00 a.m. to 4:00 p.m.

Half-Day Short Courses

\$159/\$119 ASHRAE Member -- Earn 3 PDHs/AIA LUs or .3 CEUs

Air-to-Air Energy Recovery Fundamentals
Sunday, Jan 27 – 2:00 p.m. to 5:00 p.m.

**Humidity Control: Applications, Control Levels
and Mold Avoidance**
Sunday, Jan 27 – 2:00 p.m. to 5:00 p.m.

Air-to-Air Energy Recovery Applications: Best Practices
Monday, Jan 28 – 8:30 a.m. to 11:30 a.m.

**Application of Standard 62.1-2010:
Multiple Spaces Equations & Spreadsheet**
Monday, Jan 28 – 8:30 a.m. to 11:30 a.m.

Combined Heat & Power: Design through Operations
Monday, Jan 28 – 8:30 a.m. to 11:30 a.m.

**Understanding Standard 189.1-2011 for
High-Performance Green Buildings**
Monday, Jan 28 – 2:45 p.m. to 5:45 p.m.

**Introduction to Ultraviolet Germicidal
Irradiation (UVGI) Systems**
Monday, Jan 28 – 2:45 p.m. to 5:45 p.m.

Commissioning Process & Guideline 0
Monday, Jan 28 – 2:45 p.m. to 5:45 p.m.

Evaluating the Performance of LEED®-Certified Buildings
Monday, Jan 28 – 2:45 p.m. to 5:45 p.m.

**Optimization of HVAC Systems & Components:
Techniques & Real-World Examples**
Tuesday, Jan 29 – 9:00 a.m. to 12:00 p.m.

Energy Management in New and Existing Buildings
Tuesday, Jan 29 – 9:00 a.m. to 12:00 p.m.

Avoiding IAQ Problems
Tuesday, Jan 29 – 9:00 a.m. to 12:00 p.m.

Designing Toward Net Zero Energy Commercial Buildings
Tuesday, Jan 29 – 1:00 p.m. to 4:00 p.m.

Understanding & Designing Dedicated Outdoor Air Systems
Tuesday, Jan 29 – 1:00 p.m. to 4:00 p.m.

Laboratory Design: The Basics and Beyond
Tuesday, Jan 29 – 1:00 p.m. to 4:00 p.m.

HVAC Design Training

Jan 14-18, 2013 • Jan 30-Feb 1, 2013 (Level I only) • Mar 18-22, 2013 • Jun 3-7, 2013 • Aug 12-16, 2013

HVAC Design: Level I - Essentials

Gain practical skills and knowledge in designing, installing and maintaining HVAC systems that can be put to immediate use. The training provides real-world examples of HVAC systems, including calculations of heating and cooling loads, ventilation and diffuser selection using the newly renovated ASHRAE Headquarters building as a living lab.

HVAC Design: Level II - Applications

Developed by industry-leading professionals, the workshop provides participants with advanced level information about designing, installing and maintaining HVAC systems that can be put to immediate use. Participants will gain an in-depth look into Standards 55, 62.1, 90.1, and 189.1 and the Advanced Energy Design Guides, as well as a range of other HVAC topics including: HVAC equipment and systems; energy modeling; designing mechanical spaces; designing a chiller plant; and BAS controls.

Visit www.ashrae.org/hvacdesign to register