



AMERICAN SOCIETY OF HEATING, REFRIGERATION AND AIR CONDITIONING ENGINEERS INC.

LONDON CANADA CHAPTER #116

<http://LondonCanada.AshraeChapters.org>

Mon Jan 27/2014

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History & Newsletter

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Topic

Variable Frequency Drive Compression

Speaker

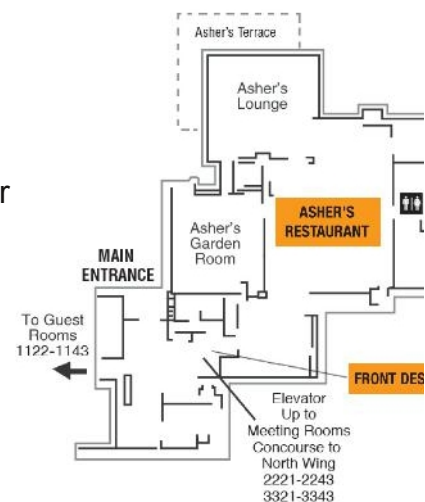
Phil Boudreau
Ontario Sales Manager
BITZER Canada Inc

Meeting - Mon Jan 27/2014

>>> IVEY SPENCER LEADERSHIP CENTRE <<<

Asher's Garden Room
551 Windermere Road, London

5:30pm-Social 6:00pm-Dinner
7:00pm to 8:00pm - Program



ADVANCED PAYMENT BEFORE MEETING

by using PAYPAL

use the chapter web site to register and pay
<http://LondonCanada.AshraeChapters.org>

\$50 Members and Guest (prepaid)

\$10 Students (prepaid)

\$60 CASH AT DOOR

\$15 for Students

Presidents Message

Welcome to 2014!

As we turn the corner in our program year, we can look forward to several interesting and engaging events. In February we have our Distinguished lecturer, David Underwood. In April we have our tour, and the golf tournament will be in June; details to follow.

We will also have a terrific speaker for March and leading us off this month is NAME and he will be presenting TOPIC. Join us at the Ivey Spencer Leadership Centre on Windermere Road. It's something new and we explore new venues to add to our rotation. This venue offers a different atmosphere we have a separate dining and presentation rooms. We may get flashbacks to being in school!

The ASHRAE winter meetings are currently underway and Region II is well represented. I will ask those who attended to perhaps speak a bit about their experience at our February meeting.

All the best and I look forward to seeing you all next week.

All the best.

Jamie Kruspel

Chapter President 2013/2014

ASHRAE London Canada Chapter

Nov Meeting Summary

Bruce W. Majer, Vice President BRD Noise and Vibration Control, Inc, present on Chiller Noise & Vibration Control: Compliance Strategies & Tactical Resources. Items discussed included silencers to be added to sides and top of cooling tower and wraps around chiller units. Other items mentioned included vibration transmission by spring isolators and service connections.

Upcoming Chapter Meetings

Monday Feb 24/2014

Monday Mar 31/2014

Monday Apr 28/2014

Monday Jun 2/2014

Other Meetings

Mar 19 to 21, 2014 = Canadian Mechanical and Plumbing Exposition (CMPX) - Metro Toronto Convention Centre

Thu April 17/2014 ASHRAE WEBCAST - Buildings in Balance: IEQ and Energy Efficiency
<https://www.ashrae.org/membership--conferences/webcasts>

June 28 to July 2, 2014 - ASHRAE Annual Conference - Seattle, WA (see ashrae.org)

Meeting Survey

If you attend the chapter meeting, be sure to complete the meeting survey that is emailed out and you will be entered into a draw for a bottle of wine at the next meeting.



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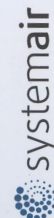
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Speaker Bio

Phil Boudreau Ontario Sales Manager BITZER Canada Inc

Phil Boudreau spent his first 22 years within the HVACR industry at the wholesale level specializing in sales and technical support. In 1992, Phil began writing refrigeration-specific articles for HPAC magazine. Today he continues to submit his work to Mechanical Business magazine.

As an instructor for Humber College since 1996, Phil also conducts training for the Joint Training and Apprenticeship committee (JTAC) as well as being the Bitzer Ontario Sales Manager, and providing Training and Technical Support.

In his spare time, Phil enjoys programming HVACR specific software and electronic circuit board design.

Topic

Variable Frequency Drive Compression

Topics to be covered include:

- * General capacity control comparisons
- * Advantages and disadvantages of VFD
- * Application – Synchronous vs. Tran-synchronous
- * VFD Outlook

ASHRAE WEBCAST - APRIL 17, 2014

Don't miss out on the newest installment of ASHRAE's FREE Webcast series — "Buildings in Balance: IEQ and Energy Efficiency." The upcoming webcast will broadcast live on April 17, 2014.

This webcast will feature industry experts who will identify the link between energy efficiency and Indoor Environmental Quality (IEQ) through the integrated design process. Viewers will be able to recognize the importance of the four cornerstones of IEQ and how system selection can benefit both energy efficiency and IEQ.

Registration for the 2014 Webcast will begin on March 17, 2014 at
www.ashrae.org/ieqwebcast
 There is no fee for registration.



www.somersep.com

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BACnet





Research

Please be sure to forward your personal or company donation to ASHRAE RESEARCH CANADA. These funds are distributed by ASHRAE Society to create the handbook and standards that all hvac designers, engineerings and contractors use every day.

Thank you for your donation

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ASHRAE TRAINING

Visit the HVAC Design Training webpage at: www.ashrae.org/hvacdesign for more details on the value of this training.

HVAC Design: Level I—Essentials at CMPX 2014

In conjunction with the 2014 CMPX Show, ASHRAE is offering the HVAC Design: Level I – Essentials training to provide intensive, practical training for HVAC designers and others involved in the delivery of HVAC services. Developed by industry-leading professionals, this training provides the fundamental and technical aspects of HVAC design in commercial buildings.

In three days, 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.

Training Topics:

Fundamentals
System selections
Cooling system
Basic design of air systems
Sustainable design
Introduction to technical sales

Heating/cooling load calculation
Common system and components
Basic design of hydronic systems
Control/BAS commissioning
Project management and other soft skills

When: March 17–19, 2014

Where: Metro Toronto Convention Centre, Toronto, Canada

Cost: \$1,239 (ASHRAE Member: \$898)

Company Discount: Enroll 3 or more participants from the same company at the same time and save.

BONUS! Get a FREE copy of Standard 189.1-2011 and User's Manual A \$200 value.



ASHRAE Learning Institute

Seminars & Courses at ASHRAE's Winter Conference and AHR Expo in New York, NY

2 WAYS TO REGISTER

Internet: www.ashrae.org/newyorkcourses

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

Commercial Building Energy Audits **NEW!**

Saturday, Jan 18 – 8:00 a.m. to 3:00 p.m.

Effective Energy Management in New and Existing Buildings

Wednesday, Jan 22 – 9:00 a.m. to 4:00 p.m.

Healthcare Facilities: Best Practice Design & Applications

Saturday, Jan 18 – 8:00 a.m. to 3:00 p.m.

Operations and Maintenance of High-Performance Buildings

Thursday, Jan 23 – 8:00 a.m. to 3:00 p.m.

Significant Changes to Standard 90.1-2010 and IECC-2012 **NEW!**

Tuesday, Jan 21 – 9:00 a.m. to 4:00 p.m.

Complying with Standard 90.1-2013 **NEW!**

Thursday, Jan 23 – 8:00 a.m. to 3:00 p.m.

Energy Modeling Best Practices and Applications

Tuesday, Jan 21 – 9:00 a.m. to 4:00 p.m.

Introduction to Building Enclosure Commissioning **NEW!**

Thursday, Jan 23 – 8:00 a.m. to 3:00 p.m.

Half-Day Short Courses

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

Electric Rates, Rules and Regulations **NEW!**

Saturday, Jan 18 – 12:00 p.m. to 3:00 p.m.

Designing High-Performance Healthcare Facilities **NEW!**

Monday, Jan 20 – 2:45 p.m. to 5:45 p.m.

Laboratory Design: The Basics and Beyond

Sunday, Jan 19 – 2:00 p.m. to 5:00 p.m.

Exceeding Standard 90.1-2013 to Meet LEED® Requirements **NEW!**

Monday, Jan 20 – 2:45 p.m. to 5:45 p.m.

Air-to-Air Energy Recovery Applications: Best Practices

Sunday, Jan 19 – 2:00 p.m. to 5:00 p.m.

Data Center Energy Efficiency

Tuesday, Jan 21 – 1:00 p.m. to 4:00 p.m.

Mathematical Optimization Techniques and their Applications: to HVAC&R Systems and Components

Sunday, Jan 19 – 2:00 p.m. to 5:00 p.m.

Fundamentals and Applications of Standard 55 **NEW!**

Tuesday, Jan 21 – 1:00 p.m. to 4:00 p.m.

Combined Heat & Power: Design through Operations

Monday, Jan 20 – 8:30 a.m. to 11:30 a.m.

Design of Commercial Ground Source Heat Pumps **NEW!**

Tuesday, Jan 21 – 1:00 p.m. to 4:00 p.m.

High-Performance Building Design: Applications and Future Trends

Monday, Jan 20 – 8:30 a.m. to 11:30 a.m.

Applications of Standard 62.1-2013: Multiple Spaces Equations and Spreadsheets **NEW!**

Wednesday, Jan 22 – 9:00 a.m. to 12:00 p.m.

IAQ Best Practices for Design, Construction and Commissioning **NEW!**

Monday, Jan 20 – 8:30 a.m. to 11:30 a.m.

Troubleshooting Humidity Control Problems

Wednesday, Jan 22 – 1:00 p.m. to 4:00 p.m.

Commissioning for High-Performance Buildings

Monday, Jan 20 – 2:45 p.m. to 5:45 p.m.

HVAC Design Training

March 17 – 19, 2014 --- Level I - Essentials --- Atlanta, GA and Toronto, Canada

March 20 – 21, 2014 --- Level II - Applications --- Atlanta, GA

HVAC Design: Level I – Essentials - Registration is \$1,239, \$989 (ASHRAE Member)

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 - Registration is \$829, \$679 (ASHRAE Member)

In two days, gain an in-depth look into *Standards 55, 62.1, 90.1, and 189.1* and the *Advanced Energy Design Guides*. Training will focus on a range of 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

ASHRAE Certification Programs

Receive the recognition you deserve by earning an ASHRAE Certification at the 2014 ASHRAE Winter Conference and AHR Expo.

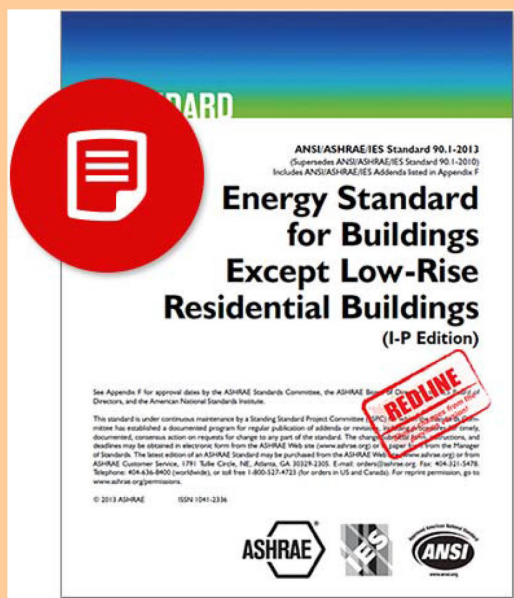
Take advantage of ASHRAE's special administration of the certification examinations on January 23, 2014. All exams will begin at 9:00 a.m. (candidates must report to the testing room at 8:30 a.m.). These exams are being offered in conjunction with the 2014 ASHRAE Winter Conference and AHR Expo in New York City. Refresh your knowledge in preparation of earning an ASHRAE certification with learning opportunities at the show and conference.



For more information, visit www.ashrae.org/NYCEXams

Hot Products from ASHRAE

Latest Edition of Standard 90.1 Now Available as a Redline



Priced from \$135 (Members Pay \$115)
 Available now in I-P or SI units

Use the redline to instantly identify updates in the 2013 revision of Standard 90.1.

This expanded document compares the 2013 edition to 2010, ensuring you know exactly what changes have been made from one edition to the next.

It's an indispensable reference for engineers and other professionals involved in the design of buildings and building systems. Select the redline upgrade in print or digital format to receive two documents; the clean, active version of the standard and the redline version.

About Standard 90.1-2013: *Energy Standard for Buildings Except Low-Rise Residential Buildings* (ANSI approved; IES co-sponsored)

provides the minimum requirements for energy-efficient design of most buildings. Learn more

About Redlines: A redline document is a quick, easy way to compare all the changes between the active standard and the previous version. Redlines allow users to instantly identify additions, deletions, and other formatting and content changes. Learn more

Visit www.ashrae.org/bookstore to learn more about this and other outstanding ASHRAE publications!