



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

LONDON CANADA CHAPTER #116

<http://LondonCanada.AshraeChapters.org>

Mon Nov 25/2013

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## Topic

## **Chiller Noise & Vibration Control: Compliance Strategies & Tactical Resources**

## Speaker

**Bruce W. Majer**  
**Vice President**  
**BRD Noise and Vibration Control, Inc**

## **Meeting - Mon Nov 25/2013**

Research Night

>>> **FOUR POINTS HOTEL** <<<  
1150 Wellington Rd S, 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 Nonmembers and Guests  
\$50 CASH AT DOOR (if not preregistered)  
\$40 London Chapter Member or \$250.00 for meal plan  
\$10 for Students

Meeting RSVP: [www.surveymonkey.com/s/QBD2V5S](http://www.surveymonkey.com/s/QBD2V5S)

## Presidents Message

Shaping the Next...

In alignment with the current ASHRAE Society Theme, "Shaping the Next", our chapter has been evolving its operation to suit our members preferences and needs. This process is not without hiccups and I would like to apologize for the challenging we evening we shared October 28 at Windermere Manor. The venue in combination with our terrific (but surprising) turn-out detracted from the overall experience and the speaker's presentation. We have reviewed the feedback you have provided and have taken immediate action to ensure we avoid this type of challenging experience. Our meetings should be comfortable, engaging, and fulfilling and unfortunately this past one did not meet expectations. However, there was a positive result of this experience is the fantastic turn-out for student night: 25 students attended. This enthusiasm from our future chapter members is great to see and we hope to continue our growth with the Student Chapter.

Ben and Nik are working hard to inspire our young ASHRAE Leaders. We recently hosted a YEA Social, with more to follow this chapter year. Check out Nik's summary in this newsletter. Student participation requires ongoing support and your contributions to the student program are greatly appreciated.

Our next Chapter Meeting is November 25, 2013 and will feature Bruce W. Majer, Vice President, BRD Noise and Vibration Control, Inc presenting Chiller Noise & Vibration Control:

Compliance Strategies & Tactical Resources. Join us at the Four Points Sheraton as Ibrahim and Khalid have planned an engaging evening at a new venue. The theme is THEME night and we will promote that faction of the chapter as part of the program. Prior to the meeting we will host a CRC planning session in preparation for the 2014 CRC in Grand Bend, Ontario. Join us in the Lounge at 4:30 if you are interested.

The 2014 portion of the program is set and we will have more to share about our evolving chapter program and featured events as we turn over to the new year.

Feel free to contact me at any time with your feedback on the chapter (519.200.2197) and I hope to see you November 25.

Thanks for your continued participation and support of our Chapter.

All the best.

Jamie Kruspel  
 Chapter President 2013/2014  
 ASHRAE London Canada Chapter

### Upcoming Chapter Meetings

Monday Jan 27/2014  
 Monday Feb 24/2014  
 Monday Mar 31/2014  
 Monday Apr 28/2014  
 Monday Jun 2/2014

### Other Meetings

Jan 18 to 22, 2014 - ASHRAE Winter Conference - New York, NY (see [ashrae.org](http://ashrae.org))  
 Jan 21 to 23, 2014 - AHR Expo - New York ([ahrexpo.com](http://ahrexpo.com))

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](http://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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## Speaker Bio

### Bruce W. Majer Vice President Noise and Vibration Control, Inc

Bruce has experience in vibratory noise control, with strong concentrations in acoustics and machine reliability since 1980. Prior to joining BRD in 2002, he worked VSC developing and maintaining machine reliability solutions for industrial, architectural and HVAC applications. Specialties include SCIF and recording studio expertise. He participates in the development of the IEEE 45 standard rewrite and is involved with development of criteria for the Navy's DDG 1000 program.

Bruce has also designed training courses in sound and vibration analysis, while delivering them throughout this hemisphere and abroad. Published in journals Sound & Vibration, P/PM Technology, Vibrations, ASNE Fleet Maintenance Technical Proceedings, and ASNE Intelligent Ships

## Topic

### Chiller Noise & Vibration Control: Compliance Strategies & Tactical Resources

Items to be reviewed and discussed will include

- \* Acoustic Terminology
- \* Noise Control Engineering
- \* Modeling Tools
- \* Compliance Criteria
- \* Chiller Noise Suppression

## Oct Meeting Summary

Dale Hanscomb, Sales Manager - Building Technology Division, REHAU spoke about Radiant Cooling Design Process and Control Options. Examples of projects using radiant floor or radiant beams were shown. Some topics discussed include how to control humidity to prevent condensation and what do do about ventilation air.



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## 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, engineers and contractors use every day.

Thank you for your donation

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## YEA

The YEA Committee of London would like to thank all the people that showed up to the Social Night at Palasad. We had a total of 10 members come out and contribute to a relaxing evening of food, drinks and high quality pool. We encourage everyone to participate and to attend the next event. The next YEA event will most likely be in January to accommodate the busy schedules of the Holiday Season. We are looking into organizing a Poker Night at a local pub/restaurant where there will be a small prize to the winner; perhaps tickets to a Knights game.

Zubic Nikola <Nik.Zubic@chorley.com>  
Ben Oliver <Ben.Oliver@chorley.com>

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### Advanced Energy Design Guides Hit Half-Million Circulation Mark

ATLANTA Since being introduced eight years ago to encourage energy efficient design in a range of building types, the Advanced Energy Design Guide series from ASHRAE and partnering organizations has hit the half-million circulation mark.

More than 500,000 copies of the books have been downloaded or purchased since first published in 2005. In 2008, ASHRAE began making the Advanced Energy Design Guide (AEDG) series available for free download at [www.ashrae.org/freeaedg](http://www.ashrae.org/freeaedg).

The books provide 30% and 50% energy savings when compared with the minimum code requirements of ANSI/ASHRAE/IESNA Standard 90.1, Energy Standard for Buildings Except Low-Rise Residential Buildings.

The series was developed by a committee representing a diverse group of energy professionals drawn from ASHRAE, the American Institute of Architects (AIA), the Illuminating Engineering Society (IES), the United States Green Building Council (USGBC) and the Department of Energy (DOE).

ASHRAE Fellow Don Colliver has overseen the development of the series since it began in 2003. He called for development of the series during his year as president of ASHRAE. During that time, he noted that ASHRAE had found "that a single document such as a code cannot effectively be used for multiple objectives," and proposed simplification and increased usability by creating a suite of documents related to energy efficiency.

"This is truly a dream come true resulting from a challenge issued during my ASHRAE presidential theme address in June 2002. I knew I wasn't smart enough to do it but I knew that the team of people with whom I was associated would be able to get it accomplished and they did!," Colliver said, jokingly.

Reflecting on the milestone as he rolls off the steering committee as chair, a position he's held since 2003, Colliver shared the five things he loves most about the series. Here are the remaining four with the realization of his challenge being one.

- "It is a coordinated, team effort of four major organizations representing over 300,000 building professionals.
- Each of the documents has been written by some of the most knowledgeable professionals in the industry. There is tremendous wealth of knowledge and wisdom amongst the project team members writing each document and they have been generous in sharing their time and knowledge to produce these documents with a 'can-do' attitude.
- While there may have been considerable debates and a lot of learning going on, all of the project team members treated each other as equals, respected the opinions of the others and eventually made integrated design decisions. It is a great example of what can be done when design silos are replaced by integrated design mixing bowls.
- There has been a uniformly great positive response from those who have read and used the documents. It's so rewarding to hear, 'It's great that we now have something that gives us insight and examples on how to design and construct buildings which make us better stewards and provide better products rather than just specifying the bare minimums'."

The 50% series includes books for large hospitals; medium to big box retail buildings; small to medium office buildings; and K-12 school buildings. The 30% series books targeting small office buildings; small retail buildings; K-12 school buildings; small warehouses and self-storage buildings; highway lodging; and small hospitals and healthcare facilities



## **ASHRAE 2014 Winter Conference**

### **Jan. 18-22, 2014**

### **New York City, New York**

New York City's iconic skyline serves as the perfect backdrop for the 2014 Winter Conference. In one of the world's top cities for most skyscrapers—nearly 600—it's only appropriate that the Conference puts a special focus on the design, development and operation of tall buildings. And they say if you can make it in New York City you can make it anywhere, so ASHRAE is also taking a look at new and innovative international design strategies for meeting environmental, geographical and cultural factors. Join the Society—along with the ASHRAE co-sponsored AHR Expo—as it returns to the Big Apple for the 2014 Winter Conference.

#### Item of Interest:

The AHR Expo takes place Tuesday, Wednesday, Thursday (Jan. 21-23), vs. its traditional Monday, Tuesday and Wednesday.

The ASHRAE Conference, which takes place Jan. 18–22 at the New York Hilton, allows you to network with your fellow ASHRAE members from around the world and shape the future of the built environment industry. The Technical Program has a building-oriented theme and seeks papers on building information systems; environmental health; international design; HVAC&R applications and systems; and, featured for this Conference, tall building performance. Nearly the entire technical program is approved for NY PDHs, AIA LUs and LEED® AP credits. Also offered are ASHRAE Learning Institute courses, social events and the opportunity to take part in more than 600 committee meetings.

Of course, you don't want to miss the ASHRAE co-sponsored AHR Expo, which allows you to see, touch and compare the newest products representing the most innovative technology in the HVAC&R marketplace. This year, the show takes place Tuesday, Wednesday and Thursday, Jan. 21–23 at Javits Convention Center, a change from its traditional Monday, Tuesday and Wednesday. The Expo will feature nearly 2,000 leading manufacturers displaying thousands of products. Also be sure to check out AHR Expo's comprehensive program of over 100 educational sessions, workshops and new product presentations offered at the Show.

To encourage attendance at the Conference, first-time conference attendees receive a discounted \$515 early bird rate for the entire Conference, which also provides admission into the Expo. Registration information for the Winter Conference can be found at [www.ashrae.org/newyork](http://www.ashrae.org/newyork) and for the AHR Expo at [www.ahrexpo.com](http://www.ahrexpo.com).



#### ASHRAE Announces 2013-14 Conference Lineup

ATLANTA—Mark your calendars now because ASHRAE's conference schedule for 2013-2014 is widespread in both dates and global reach.

ASHRAE conferences present the latest developments in the industry and fundamental tried and true practices. Topics range from high performance buildings to buildings that have combustion with low-grade fuels.

Oct. 15-18, ASHRAE IAQ 2013: Environmental Health in Low Energy Buildings, Vancouver, British Columbia, Canada

Jan. 18-22, 2014, ASHRAE Winter Conference; Jan. 20-23, AHR Expo, New York, New York

Feb. 24-26, 2014, First International Conference on Energy and Indoor Environment for Hot Climates, Doha, Qatar

April 7-8, 2014, High Performance Buildings Conference, San Francisco, Calif.

April 24-25, 2014, Efficient, High Performance Buildings for Developing Economies, Manila, Philippines

June 28-July 2, 2014, ASHRAE Annual Conference, Seattle, Wash.

September 10-12, 2014, ASHRAE/IBPSA-USA Building Simulation Conference, Atlanta, Ga.

The conferences feature peer-reviewed papers, presentations with hands-on information presented in a non-commercial format, Professional Development Hours and networking opportunities.

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## ASHRAE/IES Publish First Standard Focused on Commissioning Process

ATLANTA – A newly published standard focused on the commissioning process will help ensure a fully functional, fine-tuned facility.

ANSI/ASHRAE/IES Standard 202, Commissioning Process for Buildings and Systems, identifies the minimum acceptable commissioning process for buildings and systems as described in ASHRAE's Guideline 0-2005, The Commissioning Process. Standard 202 is ASHRAE's first standard focused on the commissioning process. The commissioning process as detailed in Standard 202 applies to all construction projects and systems and is an industry consensus document.

"Given the integration and interdependency of facility systems, a performance deficiency in one system can result in less than optimal performance by other systems," Gerald Kettler, P.E., chair of the committee that wrote the standard, said. "Implementing the Commissioning Process is intended to reduce the project capital cost through the warranty period and also reduce the life-cycle cost of the facility. Using this integrated process results in a fully functional, fine-tuned facility, with complete documentation of its systems and assemblies and trained operations and maintenance personnel."

The commissioning process assumes that owners, programmers, designers, contractors and operations and maintenance entities are fully accountable for the quality of their work. The process begins at project inception and continues for the life of a facility.

The process includes specific tasks to be conducted to verify that design, construction, verification, testing, documentation and training meet the owner's project requirements, according to Kettler.

The standard defines the commissioning process through 13 functional steps, each of which contains deliverables. The commissioning activities and deliverable are as follows:

- \* Initiate the Commissioning Process, including defining roles and responsibilities
- \* Define the project requirements, which results in the Owner's Project Requirements (OPR) document
- \* Develop commissioning plan – produces a written Commissioning Process Plan
- \* Plan design approach to Owners Project Requirements – defines the basis of design
- \* Set contractor commissioning requirement, which are included in the commissioning specifications
- \* Design review by the commissioning authority provides feedback and a design review report
- \* Submittals review verifies compliance with the OPR in a submittal review report
- \* Observation & Testing verifies system performance with results documented in construction checklists and reports
- \* Issues resolution coordination is done with an issues and resolution log
- \* Systems manual assembly results in a systems manual for building operation
- \* Conduct training for building operations with training plans and records
- \* Post occupancy operation commissioning provides an end of warranty commissioning report
- \* Assembly of a commissioning report captures all the project commissioning documentation

Other commissioning guidance from ASHRAE includes Guideline 0-2005, The Commissioning Process; Guideline 1.1-2007, HVAC&R Technical Requirements for the Commissioning Process; and Guideline 1.5-2012, The Commissioning Process for Smoke Control Systems.

ASHRAE also is working on several other guidelines related to commissioning: Guideline 0.2P, The Commissioning Process for Existing Systems and Assemblies; Guideline 1.2P, The Commissioning Process for Existing HVAC&R Systems; Guideline 1.3P, Building Operation and Maintenance Training for the HVAC&R Commissioning Process; and Guideline 1.4P, Procedures for Preparing Facility Systems Manuals.

The cost of ANSI/ASHRAE/IES Standard 202-2013, Commissioning Process for Buildings and Systems, is \$72 (\$61, ASHRAE members). To order, contact ASHRAE Customer Contact Center at 1-800-527-4723 (United States and Canada) or 404-636-8400 (worldwide), fax 678-539-2129, or visit [www.ashrae.org/bookstore](http://www.ashrae.org/bookstore).

# ASHRAE Conferences 2013-2014

Attend to See What's New, Learn New Skills, Earn PDHs, Network with Peers

## ASHRAE IAQ 2013: Environmental Health in Low Energy Buildings

Oct. 15-18, 2013 | Vancouver, BC, Canada

[www.ashrae.org/IAQ2013](http://www.ashrae.org/IAQ2013)

*Comprehensive overview presented via papers.*

Co-organizer:



## ASHRAE 2014 Winter Conference

Jan. 18-22, 2014 | New York, NY

Jan. 21-23, 2014 | AHR Expo

[www.ashrae.org/newyork](http://www.ashrae.org/newyork)

Bookstore Sponsor:



## First International Conference on Energy and Indoor Environment for Hot Climates

Feb. 24-26, 2014 | Doha, Qatar

[www.ashrae.org/hotclimates](http://www.ashrae.org/hotclimates)

*Papers focused on arid and humid hot climates.*

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## High Performance Buildings Conference

April 7-8, 2014 | San Francisco, Calif.

[www.hpbmagazine.org/hpb2014](http://www.hpbmagazine.org/hpb2014)

*State-of-the-industry presentations*



## Efficient, High Performance Buildings for Developing Economies

April 24-25, 2014 | Manila, Philippines

[www.ashrae.org/Developing2014](http://www.ashrae.org/Developing2014)

*First ASHRAE conference on this topic.*

Organized by:



**Philippines Chapter**

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## ASHRAE 2014 Annual Conference

June 28-July 2, 2014 | Seattle, Wash.

[www.ashrae.org/seattle](http://www.ashrae.org/seattle)

*2nd Annual Research Summit presented.*

## 2014 ASHRAE/IBPSA-USA Building Simulation Conference

Sept. 10-12, 2014 | Atlanta, Ga.

[www.ashrae.org/Simulation2014](http://www.ashrae.org/Simulation2014)

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