



Capital Communiqué



ASHRAE - AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS

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EVENING PROGRAM

2009 - 2010

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Program

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Student Activities

Matthew Edmonds

TEGA

Georges Maamari

Chapter Historian

Roderic Potter

Special Events

Chris Healey

Adam Beales

Communiqué

Georges Maamari

Publicity

Jason Alexander

Table Top

Frank Bann

Telephone

Cathy Godin

Greeter

Mike Swayne

Roster

Kevin Toll

Webmaster

Roderic Potter

PAOE

Christine Kemp

Business Cards

Rod Lancefield

Nominations

David Eastwood

CRC Action

Jason Alexander

DATE: Tuesday **February 16, 2010**. Social: 17:30 Dinner: 18:30 Program: 20:00 Travelodge Ottawa Hotel & Conference Centre, 1376 Carling Avenue, Ottawa, Ont., 613-722-7600

THEME: RESEARCH / TEGA (Technical, Energy and Government Activities)

PROGRAM: **Incorporating Seismic Requirements into Mechanical Design**

SPEAKER: **Ryan Belluz**

OVERVIEW: Topic 1 – General Seismic Overview
Topic 2 – Riser Piping; Riser systems that satisfy seismic, vibration, and thermal expansion requirements
Topic 3 – Large Equipment support; Designing large equipment supports that meet seismic requirements while remaining adaptable to post-bid equipment selection
Topic 4 -- Q & A Forum

BIO: Ryan Belluz is the Director of Operations Eastern Canada for Tecoustics Ltd. Ryan has a BA from the University of Texas and was hired by Tecoustics in 2006 as a sales representative covering the Ottawa Valley, Western NY and Quebec. His role was expanded in 2009 to include the Maritime Provinces. Current duties include the management of all projects and personnel associated with seismic design.



Menu

Assorted Rolls and Butter, Butternut Squash Soup
Roasted Alberta Beef with Herb Jus Served with Roasted Potatoes and Seasonal Vegetables
Chocolate Cake with Berry Sauce, Coffee & Tea

Chapter Members: \$35.00 Guests: \$50.00

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President & CRC Delegate



President's Message

By Jason Alexander, P.Eng.
2009-2010 OVC President

In the darkness and gloom that is February, it is hard to focus on issues such as global warming and energy efficiency, especially when it's -20C outside with a wind chill to -31C. In fact, these days with all the negative press in the world it is hard to focus on much of anything. Whether the news streams cover what happened at war today or showing the latest scenes from the crisis in Haiti, one can become downright depressed with life. I know that the crisis in Haiti has reminded me of the fragility of life. The environmental impacts we are causing today will echo for much longer than our lifetimes. How can we be so selfish? Some people may argue the validity of global warming but does deforestation and dumping millions upon millions of green house gasses into the atmosphere really sound like a good thing? So what are we as an organization and individuals doing to help the world?

The theme of the February meeting is TEGA and ASHRAE research promotion. Patrick St. Onge is our research promotion chair and has been diligently contacting individuals in hopes of a donation to support the advancement of our profession. George Maamari is our TEGA chair. He announced the call for submissions for ASHRAE TEGA awards. The OVC has an outstanding history in the TEGA awards our membership has won, and we hope to continue this strong showing.

I would like to highlight a few upcoming key events:

- The March 16, 2010 student night and career fair. For those that are out to find that perfect new employee please contact Patrick Albert for details on acquiring a booth.
- In April a half-day seminar will be available on "Determining Energy Savings from Energy Efficiency Projects: Applying IPMVP & Guideline 14 to Performance & LEED".
- We will have a distinguished ASHRAE lecturer at the March meeting to speak to new members and students.
- In May we will be providing a full day seminar on Variable Frequency Drives and their applications.

In the next short while we will be issuing more details on these exciting seminars. We should strive to not become stagnant in our profession but continue our learning and improve upon ourselves. Our profession is changing and we must change with it. ASHRAE may not provide the answers to the questions I posed earlier but it does provide the tools and a means for individuals to answer those questions for themselves. How will you change your world?

I hope to see you all at our February meeting on Tuesday 16 February, 2010.

Sincerely,
Jason Alexander, P.Eng.
2009-2010 OVC President

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Secretary



What you missed

By Donald Weeks
 2009-2010 OVC Secretary

The night's theme was Membership

This month's table tops were: Breck-Mar - Various products including Haakon, Danfoss, DriSteem, Heatcraft, and GasMaster.

President Jason Alexander opened the meeting and welcomed members, guests and students. Stephen Lynch (Treasurer) discussed Student Activities on behalf of Matt Edmonds (not present). Stephen discussed the CEGEP student chapter and its approval at the Orlando ASHRAE winter meeting. Also, both Algonquin College and CEGEP will be participating in the Design Competition. Stephen introduced a student representative from Algonquin (Peter Shallwood) to discuss their design. Stephen then discussed the need for support from the OVC membership for the students, particularly for the meals at meetings, for the design competition, and for the Ottawa K-12 Science Fair.

Jason mentioned the Lou Flagg Award, which will be presented to Rod Potter, OVC's Historian, at the ASHRAE winter meeting in Orlando next week.

Georges Maamari (Chair) noted the awardees for the regional TEGA awards:

Commercial New Category: Honorable Mention for Jim Siciliano from R.J. McKee Engineering for his submission of the Constitution Square Building – Phase 3.

Institutional New Category: 2nd Place for Mike Swayne from JP2G for his submission of the Guindon Hall Laboratory Expansion at the University of Ottawa.

Residential New Category: 1st Place for Kashyap Desai from Stantec for his submission of the LeBreton Flats Condominiums.

The evening's technical presenter was David Fauser of Cimco who presented on Olympic Venue Refrigeration. Mr. Fauser is the Eastern Ontario District Manager for CIMCO refrigeration. He has been with CIMCO since 2001. Many of the venues at the upcoming Vancouver Winter Olympics require refrigeration to maintain and hold desired temperatures. CIMCO Refrigeration played an integral role in the design and installation of the systems for the upcoming games. Mr. Fauser discussed the venues and the installed systems, including the equipment selection, the installation challenges, the energy efficient use of waste heat, and other relevant information pertaining to the venues.

Regards,
 Donald Weeks



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Committee Chair



Membership

By Philippe Lemieux
2009-2010 OVC Membership Promotion Chair

The Ottawa Valley Chapter would like to thank Mr. Justin Darren West for joining ASHRAE. For everyone that is contemplating joining, the following are the benefits of being members of ASHRAE.

ASHRAE members are leading the technologies of the green building movement.

-Who doesn't want to be a part of that?

Members receive discounts on ASHRAE products including publications, Standards, online courses, conferences, certifications and much more.

Members have an opportunity for professional development by serving in Leadership positions that have value with industry companies and leaders.

Members can use career services programs to hire for their company or look for jobs.

Members have access to continuing education to keep up with current technologies in our ever-evolving industry.

Members have networking opportunities for technology, employment and projects.

Members can be represented in an industry with respect for their ASHRAE Affiliation, and/or volunteer-ship.

Members have free access to \$2.9 million dollars (this year alone) worth of Industry specific research information.

Members are a part of a society committed to making the world a better place to live in through enhancing the air we breathe, improving workplace environments and creating a better quality of life by providing sustainable solutions.

ASHRAE members have a lot of fun and a true sense of accomplishment for their efforts.

We are in this together...



Lan Chi Nguyen Thi, P.Eng.
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The Energy Conservation People



Research Promotion

By Patrick St-Onge P.Eng.
2009-2010 Research Promotion Chair

Hi Everyone,

Our Research Promotion campaign for the Ottawa Valley Chapter is starting. This year, we have an ambitious goal of \$20,000 and will need your support to make this campaign another success. The generosity of our membership is fantastic. Thank you for your past investments and I hope you can find the resources to invest in the future of ASHRAE and our industry again.

Investments in ASHRAE Research Canada have started to trickle in. As of the last week of January, the following people and companies have made an investment:

Silver Level Contributor

- Longhill Energy

Bronze Level Contributor

- Wood Banani Bouthillette Parizeau

Honor Roll Contributors

- Jason Alexander
- Christine Kemp
- Stephen Lynch
- Donald Weekes
- Patrick St-Onge
- Georges Maamari
- Joel Primeau
- Lan-Chi Nguyen Weekes
- Akim H. Elmady
- Fred E Krumreich
- Marc Chiasson
- Wiles Legault & Associates Limited

Thanks for your investment in ASHRAE Research Canada. If you want your name or company published in the Communiqué, just make an investment and I will add it in.

Your support to the *ASHRAE Research Canada* program is what makes it possible to invest and continue valuable research in the HVAC&R industry. Your investment is doubly important because ASHRAE has a policy of matching contributions dollar for dollar from the revenues generated at its Winter AHR Expo. Donations and these matching expo dollars are currently funding multiple projects around Canada. Every dollar you contribute goes directly to support Canadian projects and even more: Last year \$142,626 was raised in Eastern Canada chapters and \$549,207 was re-invested back in local projects!

I am counting on your support in continuing the long tradition of the Ottawa Valley Chapter members being a strong investor in ASHRAE Research Canada.

Investments can be made by cheque made out to ASHRAE Research Canada. Please send cheques care of Patrick St-Onge at 100-3740 Richmond Road, Ottawa, Ontario K2H 5B9 or give me a call at 613-596-6454 ext 318 and I will come by and pick-up the cheque. Invoices/receipts are available upon request.

Thank you,

Patrick St-Onge, P.Eng., LEED AP
ASHRAE Ottawa Valley Chapter
2009-2010 Research Promotion Chair

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VENTILATION & FILTRATION PRODUCTS



Table Top

By Frank Bann
2009-2010 OVC Governor

Walmart is pleased to feature Tecoustics Limited at their table top.



Tecoustics Limited is a Canadian owned firm specializing in the design, distribution and manufacturing of products used to control vibration, shock and noise. Tecoustics has been active in this area of business for over 15 years. Total experience of our staff in noise control is close to 100 years.

Tecoustics is the premiere distributor of Mason Industries' noise, vibration and shock control products to Eastern Canada. Mason Industries is the world's foremost leader in vibration and sound isolation as well as seismic and shock control products.



TEGA

By Georges Maamari
2009-2010 OVC Committee Chair

Dear ASHRAE members, it is not too early for submitting an entry for consideration in the 2010 edition of the Technology Awards Program for the Ottawa Valley Chapter and Region II. The deadline for submissions is April 1st, 2010, and the awards will be presented to the deserving recipients at the May Chapter meeting.

What a tremendous opportunity for recognition for your organization and for worthy individuals who have successfully applied innovative technological concepts or approaches.

As a reminder, here are the 7 categories for submission:

Commercial buildings	Institutional buildings
Health Care Facilities	Industrial Facilities
Public Assembly	Residential
Alternative and/or Renewable Energy Use	

This year, unlike previous years, there is even more room for project recognition. All chapters can send two 1st place winners to the regional competition and the region can also send two 1st place projects to Society. This will help get good projects ahead and present more regional and society awards each year.

So, please take the initiative to nominate a project; all that is required is to complete a very simple, short-form application and to provide a minimum amount of documentation on the systems or concepts used in the project. An electronic form is available here: http://www.ashrae.ottawa.on.ca/ashraeoc_docs/TEGAAwardForm%202007.pdf

The completed applications should be sent as soon as possible by e-mail to me, at georges.maamari@wbbpengineering.com

Many thanks,
Georges Maamari



Student Career Fair 2010

By Matthew Edmonds
2009-2010 OVC Committee Chair

As you may or may not be aware, once a year the OVC hosts a career fair that coincides with our second student night of the ASHRAE season which we put on to help expose employers to prospective student and recent graduate employees and vice versa. In the past we have always seen a tremendous turnout from local Universities and Colleges, as well as local companies.

This year's career fair will be held on Tuesday March 16, 2010 at the Travelodge located at 1376 Carling Avenue and is currently schedule to run from 1:30PM to 5PM. As always student attendance is free of charge, and for exhibiting companies your fees will cover a 12'x8' space for a booth, along with 120VAC power, tables and skirts, and will also cover one free dinner at that evening's reception.

We have many interested companies this year and limited space, so should you wish to register for this great opportunity, please do so as quickly as possible. For further information please contact either myself at matte@longhill.ca /613-226-3856 x 26 or Patrick Albert at Patrick@breck-mar.com /613-728-0060 and don't forget to register as soon as possible, and no later than February 16, 2010.

As always, and especially given that we are approaching our second student night of the season we encourage you to help sponsor student meals at each of our monthly meetings. Sponsorships can be made at the registration table at each meeting.

Best Regards

Matthew Edmonds
2009-2010 ASHRAE Student Activity Chair



Determining energy Savings from Energy Efficiency Projects: Applying IPMVP & Guideline 14 to Performance Contracting & LEED – 3 hours, 3 PDH.

By Christine Kemp
2009-2010 OVC President Elect & CRC Alternate

This course provides an overview of measurement and verification (M&V) procedures for determining energy and cost savings. The class is intended for energy consultants, LEED professionals, and facility managers. Participants will learn principles of baseline definition and baseline adjustment, M&V plan development, IPMVP and Guideline 14 adherence, application to energy-efficiency upgrades and performance contracting projects, and application to LEED-NC and LEED-EB for EA-5.

Date: Tuesday April 13, 2010
Time: 9am till 12pm
Place: The Travelodge Hotel & Convention Centre Ottawa West
Cost: ASHRAE Ottawa Valley Chapter members = **\$ 225.00 each**
Non-members = **\$ 275.00 each**

(Continental Buffet Breakfast included)

Christine Kemp



News Update

By Jason Alexander, P.Eng.
2009-2010 OVC President

Award News:

ASHRAE Recognizes Outstanding HVAC&R Industry Achievements

ORLANDO – Forty-eight people were recognized by ASHRAE for their contributions to the Society and the building industry at the Society's 2010 Winter Conference held here Jan. 23-27.

The **ASHRAE Hall of Fame** honors deceased members of the Society who have made milestone contributions to the growth of HVAC&R technology. The Society inducts Presidential Member **William J. Collins Jr.**, ASHRAE Fellow, who dedicated over half a century to the HVAC&R industry, and **J. Donald Kroeker**, ASHRAE Fellow, a pioneer of heat pump applications, into the ASHRAE Hall of Fame.

The **F. Paul Anderson Award**, ASHRAE's highest given for technical achievement, is awarded for notable achievement of outstanding services performed in the HVAC&R field. The recipient is **Gerald C. Groff**, Fellow ASHRAE, Life Member, principal, Groff Associates, Cazenovia, N.Y.

Fellow ASHRAE is a membership grade recognizes distinction in the arts and sciences of environmental technology and is earned through achievement as a researcher, designer, educator or engineering executive. The Society elevated 22 members to the grade of Fellow ASHRAE:

- Robert G. Baker, ASHRAE-Certified Operations and Performance Management Professional, chief executive officer, BBJ Environmental Solutions, Tampa, Fla.
- Darryl K. Boyce, P.Eng., assistant vice president, Facilities Management and Planning, Carleton University, Ottawa, Ontario, Canada.
- Michael R. Brambley, Ph.D., a staff scientist, Pacific Northwest National Laboratory, Richland, Wash.
- Michael J. Brandemuehl, Ph.D., P.E., a professor of civil, environmental and architectural engineering at the University of Colorado, Boulder, Colo.
- Donald J. Cleland, Ph.D., a professor of process engineering and head of the School of Engineering and Advanced Technology, Massey University, Palmerston North, New Zealand.
- Drury B. Crawley, Ph.D., commercial building team lead, U.S. Department of Energy, Washington, D.C.
- Charles J. Cromer, Ph.D., P.E., program director, Appliance Laboratory, Florida Solar Energy Center, Cocoa Beach, Fla.
- Abdel Hakim Elmahdy, Ph.D., P.Eng., Life Member, principal research officer, Institute for Research in Construction, National Research Council Canada, Ottawa, Ontario, Canada.
- Forrest B. Fencl, president, UV Resources, Santa Clarita, Calif.
- Daniel Fisher, Ph.D., P.E., a professor, School of Mechanical and Aerospace Engineering, Oklahoma State University, Stillwater, Okla.

(cont...)

- Lewis G. Harriman III, director of research, Mason-Grant Consulting, Portsmouth, N.H.
- Glenn C. Hourahan, P.E., vice president of research and technology, the Air-Conditioning Contractors of America, Arlington, Va.
- Anthony M. Jacobi, Ph.D., the Kritzer Distinguished Professor, co-director of the Air Conditioning and Refrigeration Center, and associate head, the University of Illinois at Urbana-Champaign, Ill.
- Srinivas Katipamula, Ph.D., a staff scientist, Pacific Northwest National Laboratory, Richland, Wash.
- H. Ezzat Khalifa, Ph.D., NYSTAR Distinguished Professor of mechanical and aerospace engineering and director of the Star Center for Environmental Quality Systems, Syracuse University, N.Y.
- Essam E. Khalil, Ph.D., a professor of mechanical engineering, Cairo University, Cairo, Egypt.
- Mukesh K. Khattar, Ph.D., department head with Oracle, Redwood City, Calif.
- Carl N. Lawson, Life Member, a commissioning authority, Hanson Professional Services, Maitland, Fla.
- John Budi Harjanto Listijono, president and director of Pt. Metropolitan Bayutama and Pt. Metropolitan Bayu Industri, Jakarta, Indonesia.
- Kecha Thirakomen, P.E., managing director, EEC Engineering Network Co., Bangkok, Thailand.
- Marija Todorovic, Ph.D., a professor, University of Belgrade, Serbia, permanent guest professor, Southeast University of Nanjing, China, and director, Virtual Engineering and Art-Investment Vision.

The **Lou Flagg Historical Award** recognizes a chapter Gold Ribbon award winner for compiling information on outstanding historical projects or persons related to HVAC&R. The recipient is Roderic S. Potter, principal, Rodders CAS, Carp, Ontario, Canada.

ASHRAE, founded in 1894, is an international organization of 50,000 persons. Its sole objective is to advance through research, standards writing, publishing and continuing education the arts and sciences of heating, ventilation, air conditioning and refrigeration to serve the evolving needs of the public.

Technical News:

ASHRAE: Service Life and Maintenance Cost Database

Introduction

Accurate and usable building owning and operating cost data is vital for our industry. Every day, engineers are asked to advise building owners and managers on strategic decisions involving the life cycle and functionality of their buildings. The current lack of valid data leaves engineers without a solid basis for making these decisions. As an organization widely recognized for its expertise in HVAC, ASHRAE is in the best position to effectively address this need.

As stated by the sponsoring ASHRAE Technical Committee TC 7.8, Owning and Operating Costs: “One of the major weaknesses in our industry has been the inability of decision- makers to distinguish between low price and best value in the selection of HVAC systems. The consensus within our industry is, and has been, that the use of life-cycle evaluations provides the most effective method for determining the best value of HVAC system alternatives. In order to facilitate the use of life-cycle analysis techniques by decision- makers, the necessary data must be available, current, and correctly applied. A review of the current published data found a number of areas where the information is lacking, while other information is outdated and often misapplied.” (2002)

(cont...)

Objectives

The objectives of this research project were to:

1. Develop an interactive Web-based database focusing on equipment service life and annual maintenance costs for a variety of building types and HVAC systems.
2. Seed the database with at least 150 validated data sets.
3. Incorporate the results into the appropriate sections of Chapter 36 of the HVAC Applications Handbook.
4. Provide all this as a starting point for a new methodology for continuous updating of the data by the ASHRAE community.

The long-term intent of the project, as articulated by TC 7.8, is that an enlarged and diversified database will encourage the ASHRAE community to contribute their own service life and maintenance cost data, further expanding the utility of the tool. Over a period of time, this input will provide sufficient service life and maintenance cost data to allow the comparative analysis of many different HVAC system types in a broad variety of applications.

Please follow the link below to review the website:

<http://xp20.ashrae.org/publicdatabase/>

Once on the site an individual can search the database for relevant life cycle costing & life span data as well as enter their own experiences to the archive.

Sustainability News:

Standard 189.1 to Provide a Strong Foundation for High-Performance Green Buildings

ATLANTA—A new standard for the design of high-performance green buildings is set to revolutionize the building industry. Published by the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE), in conjunction with the Illuminating Engineering Society of North America (IES) and the U.S. Green Building Council (USGBC), Standard 189.1, *Standard for the Design of High-Performance, Green Buildings Except Low-Rise Residential Buildings*, is the first code-intended commercial green building standard in the United States.

The standard, published Friday, provides a long-needed green building foundation for those who strive to design, build and operate green buildings. From site location to energy use to recycling, this standard will set the foundation for green buildings through its adoption into local codes. It covers key topic areas similar to green building rating systems: site sustainability, water use efficiency, energy efficiency, indoor environmental quality and the building's impact on the atmosphere, materials and resources. For complete information on the standard, including a readable copy, visit www.ashrae.org/greenstandard.

The energy efficiency goal of Standard 189.1 is to provide significant energy reduction over that in ANSI/ASHRAE/IESNA Standard 90.1-2007. It offers a broader scope than Standard 90.1 and is intended to provide minimum requirements for the siting, design and construction of high performance, green buildings.

“The far-reaching influence of the built environment necessitates action to reduce its impact,” Gordon Holness, ASHRAE president, said. “Provisions in the standard can reduce negative environmental impacts through high-performance building design, construction and operations practices. Ultimately, the aim is not just energy efficiency but a balance of environmental responsibility, resource efficiency, occupant comfort and well being and community sensitivity, all while supporting the goal of sustainable development.”

“IES is pleased to be a cosponsor of this standard that will have a significant impact on requirements for high-performance green buildings and the building industry as a whole,” Rita Harrold, director of technology for IES, said. “We congratulate the Project Committee for the tremendous effort and dedication of its members in the fast track development of a consensus standard. We look forward to continuing the partnership with ASHRAE and USGBC as the standard continues to evolve through future continuous maintenance proposals.”

(cont...)

"Greening the building code is fundamental to the U.S. Green Building Council's goal of market transformation and is also a critical factor in how the building industry is working to mitigate climate change," said Brendan Owens, VP, Technical Development, U.S. Green Building Council. "We're extremely excited to see our collective efforts over the past three years come to fruition in the form of this important standard."

Standard 189.1 has been written by experts representing all areas of the building industry, including engineers, lighting designers, sustainability experts, building owners, designers, architects, code and compliance officials, utilities, materials experts and equipment manufacturers. The technical requirements in the standard were also supported by input from the building industry during the public review process.

To order, contact ASHRAE Customer Service at 1-800-527-4723 (United States and Canada) or 404-636-8400 (worldwide), fax 404-321-5478, or visit www.ashrae.org/bookstore.

The cost of Standard 189.1 is \$119 (\$99, ASHRAE members)



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