



Capital Communiqué



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

<http://www.ashrae.ottawa.on.ca> **OTTAWA VALLEY CHAPTER** e-mail: contact@ashrae.ottawa.on.ca
EVENING PROGRAM

2008 - 2009

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Communiqué

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Publicity

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Frank Bann

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Mike Swayne

Roster

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Patrick St-Onge

DATE: Tuesday **April 21st, 2009**. Social: 17:30 Dinner: 18:30 Program: 20:00
Travelodge Ottawa Hotel & Conference Centre, 1376 Carling Avenue, Ottawa, Ont., 613-722-7600

THEME: **TEGA / Research Promotion**

PROGRAM: **Energy Conservation**

SPEAKER: **Peter Love, Ontario's Chief Energy Conservation Officer**

OVERVIEW: Peter's presentation will address;

- Information on the Conservation Bureau and the Ontario Power Authority;
- The benefits of conservation and demand management;
- Current Conservation Bureau/OPA initiatives;
- Potential megawatt savings from those initiatives; and
- Conservation Bureau recommendations for the future

SPEAKER Mr. Love has enjoyed a long and distinguished career in the area of energy efficiency.

BIO:



As the Executive Director of the Canadian Energy Efficiency Alliance, he was a leading advocate for energy efficiency and its related benefits to the economy and the environment.

No stranger to the concept of a "cultural shift" in the Province, early in his career Mr. Love worked as a project coordinator for Pollution Probe with the team that developed the concept "Reduce, Reuse, Recycle".

Mr. Love received both his MBA and BA from the University of Toronto.

Menu

Assorted Rolls and Butter with Crisp Green Salad
Pecan & Maple Mustard Crusted Pork Tenderloin with Roasted Potatoes and Vegetables
Strawberry Short Cake with Coffee & Tea

Chapter Members: \$30.00 Guests: \$45.00

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President & CRC Delegate



President's Message

By Patrick St-Onge
P.Eng., LEED AP
2008-2009 OVC President

Hi Everyone,

The Ottawa Valley Chapter of ASHRAE is very proud to announce that one of its Past-President (2002-2003), Ms. Lan Chi Nguyen Weekes, has been selected as one of three finalist by the Women's Business Network (WBN) as Businesswoman of the Year in the Professional category. The selection of this year's Businesswoman of the Year will be held on April 22nd, we wish her the best of luck!

The themes for April are TEGA and Research Promotion. This is the final sprint to raise funds for ASHRAE research. For those of you who wonder what this donation is worth for us, you should know that for each dollar you donate to ASHRAE research, approximately 4 dollars is re-invested back in Canada, and a large portion of this money is invested in Ottawa. ASHRAE research money helps the development of new research, standards, guidelines and software or the continuation of existing studies impacting our industry.

Once again this year, we have received some very interesting projects for the TEGA awards. Each year, these awards recognize innovative projects focused towards energy efficiency, and designed by people in our local industry.

The Sens will soon be on vacation, which also means that we are approaching the end of the ASHRAE season. The next month will be very busy and exciting for our Chapter:

- Next Monthly Meeting – April 21st at the Travelodge
- [IAQ – Satellite broadcast – April 22nd at Trane Ottawa](#)
- [Full day seminar – ASHRAE 90.1 – May 5th at the Travelodge](#)

We have a great program coming up for the remainder of the year; I hope to see you there.

Yours very truly,

Patrick St-Onge, P.Eng., LEED AP
ASHRAE Ottawa Valley Chapter
2008-2009 President

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What you missed

By Christine Kemp
2008-2009 Chapter Secretary

Career Fair - We had about 12 booths set up and approximately 50 students attended. Our speakers were Cathy Godin (contractor), Karen Peck (Engineer), Mike Hurley (Manufacturing) and Tom Chiykowski (Sales). A special thanks goes out to Pat Albert for all his hard work to make the event a success.

The night's theme was Student Activities.

This month's table tops were **Dura Systems** (The only UL/ULC Fire Rated Duct System that does not require additional wraps or enclosures) by Walmar Ventilation Products and **Tri-Med** (odour control and air quality group of products that use UV Lights, and Oxidation to combat mold, bacteria, odours and other biological challenges in the air handling industry) by Engineered Air.

Two students from the Algonquin Design team gave a summary of their 35 page written report and design of a building in Nashville, Tennessee. They thanked Chris Frauley and Rod Lancefield for all the help they have given.

Deadline for TEGA is coming up. It is a simple process, 1 page summary and drawing to be handed in. Forms are on the chapter website. Please submit applications by the end of this month.

The Program was Carbon Trading. This was presented by Graham Lieth the Senior Director, Energy Sales at Direct Energy Business. He addressed the environmental implications on energy markets and how that affects businesses in Canada, now and in the future.

Committee
Chair



ASHRAE OVC: Student Activities

By Sébastien Laroche
P.Eng., LEED AP
2008-2009 Student Activities Chair

I would like to acknowledge everyone's efforts in helping the Career Fair being another great success. Special thanks to Patrick Albert, Richard Albert, Rod Potter, Georges Maamari, and our guest speakers; Karen Peck, Tom Chiykowski, Mike Hurley, and Cathy Godin. The feedback has been extremely positive, particularly from the students who attended.

The Career Fair consisted of 11 companies (listed below) who committed staff, time and resources to meet with students from Algonquin College, University of Ottawa, CEPEG de l'Outaouais and Carleton University. In all, an estimated 50 students participated throughout the day's events, with 22 of them who stayed for the evening's program.

(cont...)

ASHRAE OVC provided these students with an opportunity to meet with industry professionals, work on their networking skills and provide a deeper insight into ASHRAE and the Ottawa Valley Chapter.

The Career Fair also provided the participating companies the opportunity to meet with emerging potential professionals, promote their companies and describe the work they are involved in.

Finally, as with all other monthly meetings, we encourage individuals or companies to support a student by sponsoring their meals and I would like to thank every sponsor for the March meeting.

Regards,

ASHRAE OVC Career fair '09 - Companies

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Pageau Morel





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Treasurer



Student Sponsors

By Stephen Lynch
2008-2009 OVC Treasurer

The student sponsors came in very generously at the ASHRAE Ottawa Valley Chapter March 2009 meeting. The students would like to thank the following people for their kind sponsorship:

Glenn McLean – 3 students
Mark Gall – 2 students
Marc Chiasson – 2 students
Steve Moons – 2 students
Phil Lemieux – 2 students
Eric Van Benschoten – 1 student

Andrew Mariana – 1 student
David Eastwood – 1 student
Rod Potter – 1 student
Bob Kilpatrick – 1 student
Karen Peck – 1 student
Siemens – 1 student

Your student sponsorship is much appreciated by the ASHRAE Ottawa Valley Chapter. Your contribution to help compensate student meals allows the chapter to provide meals to the students at no cost to them. A lot of the students that attend these meetings will one day become ASHRAE members and your contributions help to grow our membership which is the heart of the Ottawa Valley Chapter.

Governor



ASHRAE Satellite Broadcast Covers IAQ for Sustainable Buildings

By Don Weeks
2008-2009 OVC Governor

Registration is open at for the April 22 satellite broadcast and webcast, *Clean, Lean, and Green—IAQ for Sustainable Buildings*. This free broadcast/webcast is sponsored by ASHRAE's Chapter Technology Transfer Committee with support from the U.S. Environmental Protection Agency. A panel of five presenters will discuss practical topics related to indoor air quality.

[Click here](#) for more information and to register.

Best,
Don



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The Energy Conservation People

President & CRC Delegate



Ottawa Regional Science Fair

By Patrick St-Onge
 P.Eng., LEED AP
 2008-2009 OVC President

This weekend, I attended the Ottawa Regional Science Fair (ORSF) at Carleton University. Students in the Ottawa-Carleton Region, from grades 7 to 12 presented projects in the fields of science and engineering. The Ottawa Valley Chapter has donated three prizes of 200\$. The projects were:

- Les Isolants incroyables – Wissal Kobeissi and Nicola Hadwen
- Solar and Wind Power – Charlie Hardwick-Kelly
- Les Bienfaits des Toits verts (Benefits of Green roofs) – Chanel Fournier

I was amazed to see the number of great projects with direct application of scientific principles to real-life situations (isn't this engineering?). The students presenting projects, which took a lot of effort and creativity, showed me that our society has a great future ahead.





Research Promotion

By Robert Lefebvre
 P.Eng., LEED AP
 2008-2009 Past President and Research Promotion Chair

Hi Everyone,

Our Research Promotion campaign for the Ottawa Valley Chapter is now in full gear. If you have invested in ASHRAE Research Canada in the past five years, you should have received a call from one of our dedicated Research Promotion committee volunteers. 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.

We recently had the annual OVC curling bonspiel to benefit ASHRAE Research Canada. The tournament was a huge success both on and off the ice. Goodkey Weedmark and Associates donated Senators hockey tickets for a raffle and \$570.00 was raised. Congratulations to Richard Cameron who won the tickets. At the end of the day, \$1,475.00 was raised for ASHRAE Research Canada! The generosity of our membership never ceases to amaze me. Thank you!

Investments in ASHRAE Research Canada have started to trickle in. As of mid-March, the following people and companies have made an investment (in order of date received):

- Engineered Air
- Jason Alexander
- Stephen Lynch
- Christine Kemp
- Robert Lefebvre
- Patrick St.-Onge
- Joel Primeau
- Fred Krumreich
- Eric Van Benschoten
- Chris Harrison
- Chris Fudge

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.

As previously noted, 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 Robert Lefebvre at 1688 Woodward Drive, Ottawa, Ontario K2C 3R8. Better yet, give me a call at 613-727-5111 ext. 234, and either myself or one of the RP committee members will come by and pick-up the check. Invoices/receipts are available upon request.

Thank you,

Robert Lefebvre, P.Eng., LEED AP
 ASHRAE Ottawa Valley Chapter
 2008-2009 Research Promotion Chair

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ASHRAE Curling 2009

By Christine Kemp
2008-2009 Chapter Secretary

What a great day! This year we had a total of 14 teams, thanks to all who participated.

It was a lot of fun. Thanks goes out to Rod Potter and Jason Alexander for taking many pictures throughout the day. Go to our website and check it out, there is also some video footage where you can go analyze your form. (maybe make improvements for next year)

Stan did a great job as MC and everyone went home with a prize. Some better than others. (Right Gary?)

The big winners were the **JL Richards** team: Kevin Thompson, Anne Hamelin, Randy Snow and Marc Labonte.

Better luck next year to HTS 1- Enjoy the beer!



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My First Curling Experience

By Georges Maamari
2008-2009 Governor

I have to agree with Christine's article, the curling event was indeed lots of fun. Since I had never played curling before, I decided it would be wise for me to team up with someone that had some relative experience with the sport. I was told that Gary Hartman would be a good guy to team up with, as he has curled for many years now. Curling with Gary on your team is a challenge, you better listen to what he says...SWEEP...HARD...COME ON...WHAT ARE YOU?...A MOUSE OR A MAN?

Needless to say, even with Gary's experience, our team lost 3 of the 4 games we played. The irony behind these three losses, is that at some point during each game, our team was winning, until Gary stepped up and knocked one of the other team's stone closer to the button, giving them the win. Please note that this happened on four (4) occasions! Way to go Gary!

With all seriousness I had an amazing time curling with my team, and I look forward to curling with Gary once again.

Thanks for a great first experience Gary! I hope everyone had as much fun as I did.

Regards,

Georges Maamari

DIFFERENT WAYS OF LOOKING AT THINGS (Or the uncertainty of the English language)

'Mr. Clark, I have reviewed this case very carefully,' the divorce Court Judge said, 'And I've decided to give your wife \$775 a week,'

'That's very fair, your honor,' the husband said. 'And every now and then I'll try to send her a few bucks myself.'

A blonde calls Delta Airlines and asks, 'Can you tell me how long it'll take to fly from San Francisco to New York City ?'

The agent replies, 'Just a minute.'

'Thank you,' the blonde says, and hangs up.

A doctor examining a woman who had been rushed to the Emergency Room, took the husband aside, and said, 'I don't like the looks of your wife at all.'

'Me neither doc,' said the husband.

'But she's a great cook and really good with the kids.'



Seminar

By Steve Moons
2008-2009 Governor



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Ottawa Valley Chapter

Exceeding the Requirements of Standard 90.1-2007

DATE: Tuesday May 5, 2009

TIME: 9 AM to 4 PM (Sign-In/Coffee 8:30 AM)

LOCATION: Travelodge Ottawa Hotel & Conference Centre
Greenery Room
1376 Carling Ave., Ottawa, Ontario
(613) 722 7600

SEMINAR OUTLINE

- This course is targeted at design professionals and building owners. Appendix G, a new informative appendix in 90.1 since 2004, provides specific guidance on the rules and procedures in simulating building energy use when the objective is to substantially exceed the requirements of 90.1. Appendix G is especially useful for energy simulations connected with LEED credits and with energy tax credits and incentive programs. This Course:
- Presents an overview of the requirements of 90.1-2007.
- Provides approaches for exceeding the requirements,
- Describes how to use Appendix G, including its modeling rules, and
- Discusses strategic approaches to LEED certification and to achieving high performance buildings that surpass 90.1-2007

COURSE OUTLINE

- Introduction and General Requirements
- Design Models, Additions & Alterations, Space Use & Schedules
- Building Envelope
- Lighting
- HVAC, SVC Water Htg, thermal blocks and other loads
- Use of Appendix G within LEED (NC2.2 etc)
- Use of Appendix G within the Federal Tax Credit process
- Course review and wrap-up

DOCUMENTATION:

- A hard printed copy of instructor's presentation will be provided.
- Standard 90.1 manual and associated User's manuals are **NOT** being supplied and are not required. You may find it useful throughout the day if you bring your own copy for reference.

WHAT IS STANDARD 90.1-2007?

ASHRAE 90.1 sets the minimum energy standard for non residential and residential buildings over 3 stories. It has been adopted by the DOE as the "national energy code" right now all other codes must be at least as stringent as 90.1 -2004.

LEED uses 90.1 as the baseline and references 90.1 appendix G as the guide to model LEED buildings.

SPEAKERS:

JOSEPH DERINGER, AIA, LEED-AP (SU.PER.B)



Joseph has worked on projects throughout the US and in more than a dozen countries to reduce greenhouse gases, to improve building sustainability and energy efficiency, and to develop energy efficiency building codes. Joe is a member of AIA, IESNA, USGBC, and ASHRAE (voting member of Standards 55 and 90.1). He is the AIA Liaison to ASHRAE's 90.1 energy standard and Chair of ASHRAE 90.1 Envelope Subcommittee. Joe is an Advisor to the AIA Committee on the Environment (COTE). Joe holds a LEED-AP certification from the US Green Building Council.

MCHENRY WALLACE, PE (TXU ENERGY)



Mr. Wallace began working in the family Mechanical Contracting business as a laborer, at the age of 14. His career brought him from being the owner of McHenry Wallace Engineering to becoming 1 of 40 stockholders in a company of over 1700 employees. He filled relevant positions of National Leader of Energy Services, National Leader of Telecommunications, Corporate Mechanical Engineering Leader, and Facilities Unit Manager for several Carter and Burgess offices.

In 2001 he joined Texas Utilities (TXU) Energy as Director of Design Build Services to provide performance contracting across the USA. Mr. Wallace is heavily involved on the front lines of the energy conservation industry, having served the last 8 years on the ASHRAE 90.1 committee. Mack has also served on the review team for the energy efficient buildings research projects supported by the Energy Research in Applications Program for the Texas Higher Education Coordinating Board. He now serves as the liaison between the mechanical and building envelope subcommittees working with both committees to develop whole building approaches to energy savings and sustainable design.



**STANDARD 90.1-2007 SEMINAR
REGISTRATION FORM**

(SPACE IS LIMITED TO 25 PARTICIPANTS – FIRST COME FIRST SERVED)

FEES:

ASHRAE <u>OTTAWA VALLEY CHAPTER</u>	MEMBERS	___ \$ 350.00
	NON-MEMBERS	___ \$ 425.00

- **Deadline for sign-up and payment is April 24, 2009**

Fees include documentation, light lunch and mid session refreshments

Important Note: Register in advance as there will be NO on-site registration

PLEASE FAX or E-MAIL YOUR REGISTRATION FORM TO:

ASHRAE SEMINAR - ATTENTION: STEVE MOONS

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ASHRAE Membership # _____

Daytime Telephone: _____ E-mail: _____

Company Name and Mailing Address:

Please make cheque payable to- ASHRAE Ottawa Valley Chapter

Note: ASHRAE Ottawa Valley Chapter membership rate is \$ 50.00



Table Top Display

By Frank Bann, P.Eng.

The Master Group is pleased to feature Airtap at their table top.



Imagine a water heater that heats its water not by gas, nor by electricity but simply by the air surrounding it. Your power or gas bills would be significantly lower, and you would be doing the environment a service by conserving a considerable amount of energy.

The AirTap does just this. Once connected to your existing water heater, the AirTap unit acts as a conventional heat pump, using a compressor to extract heat from the surrounding air, and then transferring this heat into your tank through long copper tubes. This, in turn, heats the water to the same degree as would a gas burner or electric heating component, distributing the hot water throughout your home safely and efficiently.

Walmart is pleased to feature Air 2000 at their table top.



Air 2000 is a company from Saint-Léonard-d'Aston (Québec) which specializes in ERV/HRV ventilation equipment production. With more than 50 years experience, its team has developed a singular expertise to offer a wide range of ventilation devices and complementary products to respond to the specific needs of its diverse residential, agricultural, commercial and industrial clientele.

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News Update

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Technical News:

ASHRAE Launches Commissioning Certification Program

March 24, 2009

ATLANTA – Just as the commissioning process helps buildings and their systems operate optimally, ASHRAE’s newest certification recognizes those with optimal knowledge of the entire building commissioning process. The program is ideal for individuals given a commissioning role who may not have a building HVAC&R background.

ASHRAE’s Commissioning Process Management Professional launches in June at the Society’s 2009 Annual Conference in Louisville, Ky. The program helps building owners, developers, operators and others recognize individuals capable of assuring that building systems and equipment are designed, installed, tested, operated and maintained according to their operational needs.

“As the standard setter for sustainable building performance, ASHRAE’s certification program recognizes that people who manage the commissioning process need to have people- and project-management skills in addition to a level of understanding of building design, construction, operations and maintenance,” Bill Harrison, ASHRAE president, said. “This is what distinguishes the commissioning program from other HVAC commissioning certifications.”

Developed with input from APPA, BCA, IESNA, NEBB, SMACNA, TABB and the University of Wisconsin-Madison, the program is the fourth in ASHRAE’s suite of certification offerings. The others focus on healthcare design, high-performance building design, and operation and maintenance.

Individuals must meet certain eligibility qualifications to take the exam. For more information, an exam content outline and available resources for exam preparation, please visit www.ashrae.org/certification. The fee for the exam is USD \$207.50 before June 5 (USD \$147, ASHRAE members).

Sustainability News:

Dynamic Tower Skyscraper: Every Floor Self Rotates, Powered by Wind and Sun

June 24, 2008

Italian architect [David Fisher](#) is building his first skyscraper, the [Dynamic Tower](#), and it happens to be one of the most ambitious construction plans since the Pyramid of Khufu. Every floor of the 80-story self-powered building rotates according to voice command, and nearly the entire structure of the \$700 million building is pre-fabricated.

(cont...)


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Fisher was inspired to design the [Dynamic Tower](#) during a visit to a friend's top-floor Midtown Manhattan apartment. "I had a view of the Hudson River and East River at the same time, it was beautiful and I wanted to make that feeling accessible to more people." He loves the idea of seeing the sun rise and set in the same room, and considers the building to be four-dimensional. "Time is always changing the shape of the building," he told me.



The rotation takes up to 3 hours (so you're not always spilling your coffee), and gets power from photovoltaic solar cells and 79 wind turbines, one located between each floor. The system is meant to create enough energy to power to the entire tower and still have juice to spare for some surrounding buildings. According to Fisher, two of these \$700 million futuristic scrapers are planned so far, one each in Dubai and Moscow. They will be built using a truly radical technique.

Construction on the [Dynamic Tower](#) will be unlike anything that preceded it. The only part of the tower built on site will be the skinny center core. It is strong enough to hold the floors in place, and will contain the building's elevators, which transport people *and cars* right to their door. Each floor will be made piece by piece in a factory in Italy—a throwback to Fisher's previous life in prefabricated bathroom design—and placed onto the core using a lift system. With this method, each story is completed in about six days. By comparison, traditional ground-up methods can take six weeks per floor.

Groundbreaking for Dynamic Towers in Dubai and Moscow is expected to happen in the fall, with construction reaching completion by the end of 2010. If you're game—and very, very loaded—you can sign up now for a villa or office space. The going rate is \$3000/sq foot.

This article is based on a news release from Gizmodo.com.



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by Rod Lancefield

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