



# Capital Communiqué



2006 - 2007

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OTTAWA VALLEY CHAPTER

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May 2007

## EVENING PROGRAM

**DATE:** Tuesday May 29, 2007. Social: 17:30 Dinner: 18:30 Program: 20:00  
La Contessa, 156 Cleopatra Dr., Nepean, Ont., (613) 224-8700

**TOUR:** Canadian Museum of Civilization – Main Mechanical Rooms

**THEME:** History / Companions / Past Presidents

**PROGRAM:** The ASHRAE Promise – A Sustainable Future

**SPEAKER:** ASHRAE President Terry Townsend

**OVERVIEW:** ASHRAE President Terry Townsend is focusing on The ASHRAE Promise: A Sustainable Future, highlighting ASHRAE's efforts in sustainability in the building environment. "As the comfort makers of mankind, we must develop the definitive technical guidance, innovative engineering applications and leading-edge research to take care of mankind by providing technical guidance to help achieve a sustainable future," Townsend says. "It is our time to step forward and take a leadership position as the engineering engine of the global sustainability effort."



As ASHRAE's president, Mr. Townsend directs the Society's Board of Directors and oversees the Executive Committee. Mr. Townsend has served as president-elect, treasurer, vice president and Region VII director and regional chair. He serves on technical committee (TC) 2.7, Seismic and Wind Restraint Design, TC 2.8, Buildings Environmental Impacts and Sustainable, TC 7.1, Integrated Building Design, TC 6.6, Service Water Heating, TC 6.9, Thermal Storage, and TC 9.6, Health Care Facilities.

He was the ASHRAE representative to the ASHRAE/U.S. Green Building Council Steering Committee and ASHRAE liaison to both the American Society for Healthcare Engineering and the National Environmental Balancing Bureau. He held all offices in the Tennessee Valley Chapter.

He is the recipient of the Exceptional Service Award, the Distinguished Service Award, a Region VII Technology Award, a Regional Award of Merit and a Chapter Report Award.

He was awarded a bachelor of science in 1971 and a master of science in mechanical engineering in 1973 from Tennessee Technological University.

## Menu

Appetizer: Salad; Main Menu: Chicken Cordon Bleu

Dessert: Chocolate Mousse Cake, Coffee/Tea

Chapter Members: \$25.00 Guests: \$30.00



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President &  
CRC Delegate



## President's Message

By Glenn MacLean

We started out this ASHRAE season with a "back to basics" approach to our meetings, and a focus on sustainable design for a large portion of the rest of the year. I think the casual approach to our first meeting helped us to get back to paying attention to who the people are in our ASHRAE community - where they come from, why they participate, and what keeps them coming back to us year after year. I also think the focus on sustainability, energy recovery, and some very informative programs made for a technically sound year as well.

I believe that ASHRAE is a means to make oneself better. Technically we try to offer seminars, technical programs and articles that inform and broaden the knowledge base of our members. Socially we offer a relatively informal setting before each meeting for members to mingle and talk to some of our colleagues on a casual basis. For those of you who haven't learned to get all you can out of the ASHRAE experience - this is the meeting to go to.

The May meeting is always a well attended affair - partly because it's Past President's night, and partly because it's spouse's night. We welcome anywhere from 15 to 30 past presidents and hopefully their spouses to this meeting. We also welcome and enjoy the company of our spouses at this event. It's an opportunity for our significant others to get a glimpse into our 'work' world for a brief snapshot, and an opportunity for our membership to thank our spouses for allowing us to participate on a regular basis. This year's meeting is even more enticing as we will be treated to a visit from Society President **Terry Townsend**. This is a great opportunity to not only meet our Society President, but to get a guided tour of his vision of ASHRAE's role as we move through the challenges presented by Climate Change. Having watched 'An Inconvenient Truth' last month, I for one am very interested in listening to Mr. Townsend's message on sustainability in our new global community.

As this will be my last meeting as your Chapter President, I would like to thank all the hard working volunteers who take time out of their busy work and personal days to assist with running our local chapter. It's been an enjoyable and educational adventure for me and I wish Robert Lefebvre all the best in guiding the Ottawa Valley Chapter in the year ahead.

In your service,  
Glenn MacLean  
President 2006-2007  
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Committee Chair



## Theme: History, Companions, and Past Presidents

by Rod Potter  
Editor, Governor, Gopher and Webmaster

Speaking of History, I recently spent a wonderful week down in Punta Cana D.R. with the family, trying to get away from the daily grind, and catch a few of those global warming rays. Tagging along with us was my newly acquired Olympus E10 digital SLR camera which I had managed to purchase via eBay for a song. I had no idea how to use the camera and went on various forays around the resort acting like paparazzi, taking pictures of anything that moved, including a gaggle of three geese that insisted on attacking anyone who ventured nearer than ten feet from them. God they were noisy.



Figure 1: The Offending Geese

Anyway I found out during my photographic escapades that many people object to having a large lens stuck in their face, particularly when they are scantily-clad and complete with burly husbands. So most of my pictures were of my also noisy kids, and my lovely wife Lindsay, who eventually also got a bit miffed and told me to auto focus on *something else*. I actually purchased the E10 with our monthly meetings in mind. Experience has taught me that these funky point-and-shoot cameras everyone now has, with 10X Optical zoom this and 20MP resolution that are pretty useless in a darkened room (AKA an average monthly meeting with the speaker 30 feet away, working his way through a PowerPoint deck). You may have wondered why there are not a great deal of images included in these newsletters in the "What You Missed" area – this is because the majority of them handed to me are so dark they are useless. Small cameras have no significant flash range. The E10 has a lovely thing called a hot-shoe which will accept an external flash gun – hey presto now I can see the speaker! I am sure that a quick conversation with our very talented and appreciated official photographer Greg Newton will confirm my findings.

Getting back to History, or getting away for a week in an effort to make work worries a thing of the past, I did indeed see many things while wandering around the resort. This was our fourth visit to the same resort (better the devil you know approach) so on this occasion I decided to wander off the beaten path a bit. I was getting along quite happily when suddenly I was caught short as I almost walked right into a **Carrier unit** behind one of the service buildings. Close inspection revealed that tarpaper wrap on outside ducting suffers just as much from the elements down in the Caribbean as it does in Ottawa. This brought me back to reality a little, and I had to go back to the family and have another cold beer to get over it. (cont...)

(...cont.)



**Figure 2: Offending Carrier Unit**

My mind up to that point had been wandering all over the map and getting further and further away from things such as ASHRAE Meetings, but alas everything good comes to an end, so here we are approaching the last meeting of the year. Unfortunately the final meeting brings with it the departure of our esteemed president **Glenn MacLean**, who has impressed me with his organizational skills, not to mention the fact that he orders the most fabulous pizza for the BOG meetings. Our incoming president **Robert Lefebvre** will be taking the helm of a ship that hopefully will continue its journey along a well-planned route. We have a lot of responsibility as members of the board, because we are not only the benefactors of years of hard work by previous executives, but we are the Chapter members who steer History as it unfolds.

Hopefully our May meeting will be attended by many of our past presidents and their companions. I have said it before, and will repeat it here: *we are not worthy*. Assuming that the Gods are on my side during the meeting, and the La Contessa wireless network is up and running, I will be able to give the attendees a quick demonstration of the changes I will be launching on the website. I expect that some of the recently added photos will bring a smile or two to the faces of our esteemed colleagues. They certainly have entertained me!

See you on May 29<sup>th</sup>.

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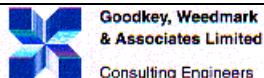
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## **Technical Tour : Canadian Museum of Civilization 100 Laurier St., Gatineau (Hull)**

### **SITE TOUR:**

3:00 PM TO 4:00 PM, TUESDAY MAY 29<sup>TH</sup>

**TOUR OF THE MAIN MECHANICAL ROOMS** Guided by Todd Keyley of Canadian Museum of Civilization. Original mechanical designer from BPA will be present.

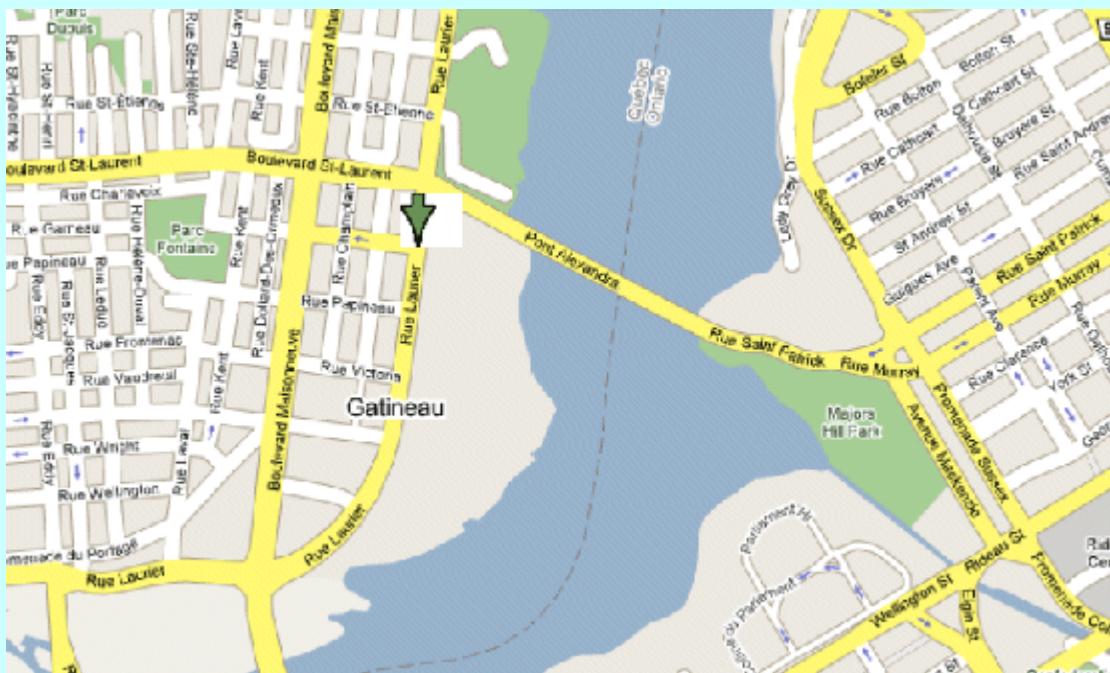
The Museum opened on June 29, 1989. The building is approximately 100,000 sq. metres (1,076,430 sq. ft.) and comprises two distinct structures: the Museum Building (formerly the Glacier Wing), the public exhibition wing with over 25,000 sq. metres (270,000 sq. ft.) of display space; and the Curatorial Building (formerly the Canadian Shield Wing), which houses the collections (3.5 million artifacts) as well as conservation laboratories and administration.

### **\*\*\* LIMITED CAPACITY, PLEASE REGISTER EARLY \*\*\***

There is a limit of 18 people for the tour so please register early. E-mail Patrick St-Onge at [patrick.stonge@wbbengineering.com](mailto:patrick.stonge@wbbengineering.com) or call him at 613 596-6454 before Friday May 25<sup>th</sup>. Hard hats and boots required.

**Parking:** Parking is available at the Museum at the cost of \$1.75 per half hour (max. \$10.00). Site is also easily accessible by public transit.

**\*\*\* LOCATION \*\*\*** Arrive a minimum of 15 minutes early for required registration. **Tour starts at 3 pm.** Meeting place will be the administration entrance, at the guard post. Additional information will be provided to the registered persons.





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Secretary



## What You Missed

April 17th, 2007 Chapter Meeting  
by Francois Belair  
Chapter Secretary 2006-2007

Last month's meeting featured a screening of Al Gore's 'breakout' documentary "**An Inconvenient Truth**." This meeting was held on the unmemorable date of April 17<sup>th</sup>, but significant in that it was also game 4 of the Senators first round playoff match-up.

Despite having Mr. Gore pinch hit for the scheduled speaker and the pivotal game involving the "Red Machine", approximately sixty attendees were present at the buffet line while enjoying the opening of this exceptional documentary. As the movie's title indicates, the human race is at a crossroads regarding the way we live. Continued industrialisation and the growing global population increase have pushed the earth's resources to their limits. Inaction on the part of industrialized nations (largely the G7) has resulted in carbon dioxide (CO<sub>2</sub>) emissions at record levels, which in turn has increased the globe's average temperature to record levels, with unfortunately more dramatic increases still to come.

Designing, supplying and building HVAC systems, members of ASHRAE have an important part to play in the control of climate change and its effects on the common individual. We have the responsibility to present building owners and co-inhabitants of this globe, the benefits of energy efficient mechanical systems and responsible environmental practices. It is our duty as educated members of this society to work for the greater good and resist sacrificing core beliefs for short term gain.

Due to the documentary's length, the movie was started once all present were seated opting to not have the regular ten minute break after dessert and coffee. This change in format allowed for all to be at East Side Mario's for the start of third period action.

The evening meeting was preceded by an excellent site tour around Ottawa University's newly expanded **Roger Guindon Hall**. The tour was kindly led by **Herb Dean**. Pictures taken during this tour are posted as follows:

[http://picasaweb.google.com/ashraeovc/20070417\\_Guindon\\_Site\\_Tour](http://picasaweb.google.com/ashraeovc/20070417_Guindon_Site_Tour)

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The Energy Conservation People

President &  
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## Student Sponsorship (Adopt a Student Program)

By Glenn MacLean

This year, as with most years, we are encouraging students from Carleton, University of Ottawa, Algonquin, CEGEP de L'Outaouais, and La Cite Collégiale to join us at our monthly meetings. We typically have two student nights per year in October and January, but encourage students to attend whenever their schedule permits. On student nights we invite the students to attend our meetings and we pick up the cost of their meals. This is a program we have been offering for some time, and wish to continue to offer in the future. However, as the program becomes more successful it also creates a greater draw on our Chapter funds and resources. We would also like to extend this offer to students attending on other nights as well. Currently, students are charged \$15 per meal when they attend on their own. Meals actually cost more than this, but any contribution members are able to make is appreciated.

If your company or you personally are interested in sponsoring a student for January's meeting or future meetings, please contact our Treasurer, Imtee Baksh [imteeb@lonhill.ca](mailto:imteeb@lonhill.ca), or see him at the check-in table at our monthly meetings. As a way of recognizing our members for their contributions we will give you a receipt for your investment in Student Activities, publish your name or your company's name on our website, and include you in our list of previous donors in the Capital Communiqué.

Thank you for your support,  
Glenn MacLean

## SOCIETY OF FIRE PROTECTION ENGINEERS

Their **26<sup>th</sup> Annual Meeting and Educational Forum** will take place on May 16<sup>th</sup> (that's next week!). Download the following document to read all about it – it looks good, Joel Primeau and Judy Jeske are both speaking at this event.

[http://www.ashrae.ottawa.on.ca/ashraeoc\\_communique/Announcements/SFPE/SFPE May 16 2007 Technical Forum.pdf](http://www.ashrae.ottawa.on.ca/ashraeoc_communique/Announcements/SFPE/SFPE May 16 2007 Technical Forum.pdf)

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President-Elect &  
CRC Alternate



## News Update

By Robert Lefebvre

### Technical News:

## ASHRAE, ACCA Publish Load Calculation Standard

April 12, 2007, ATLANTA

A new standard that establishes minimum requirements for performing load calculations has been published by the American Society of Heating, Refrigerating and Air-Conditioning Engineers. The standard was developed in conjunction with the Air Conditioning Contractors of America (ACCA). ANSI/ASHRAE/ACCA Standard 183-2007, Peak Cooling and Heating Load Calculations in Buildings Except Low-Rise Residential Buildings, is available for purchase at [www.ashrae.org/bookstore](http://www.ashrae.org/bookstore).

Proper load calculations are the first step in any design process, says Chris Wilkins, chair of the committee that wrote the standard. "Efficiency and comfort are only possible if the equipment is selected to match the load." The standard establishes minimum requirements for building loads that are inclusive of as many procedural methods as possible while identifying core elements that impact heat loss and gains. Requirements are non-prescriptive and are aimed at ensuring that developers of load calculation methodologies observe recognized good practices. The specifics in undertaking a load are left to the discretion of the industry professional by their selection and application of load methodologies that meet the standard.

The need for the standard was driven largely by the desire of the code enforcement community. Code references to the ASHRAE Handbook existed, making it the de facto standard. "The industry recognized that we were the appropriate source for load calculation guidance, but the problem was that the ASHRAE Handbook was never intended to be a standard," says Wilkins. "Standard 183 now provides an appropriate compliance reference that reconciles each organization's needs." "We are pleased that the standard meets the needs of our members," says Phil Forner, ACCA 2007 - 2008 chairman. "ACCA wants contractors to have access to the most accurate, efficient and effective design standards, and this will help contractors with commercial building load calculations."

The cost of Standard 183-2007 is \$24 (ASHRAE members, \$19) and is available in print and download versions. To order, contact ASHRAE Customer Service at 1-800-527-4723 (United States and Canada) or 404-636-8400 (worldwide); fax 404-321-5478; by mail at 1791 Tullie Circle NE, Atlanta, GA 30329; or visit the Bookstore at [www.ashrae.org](http://www.ashrae.org).

(cont...)

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### **Sustainability News:**

## **Ontario Approves Massive Solar Farm**

April 26, 2007, TORONTO

The Ontario government has approved a California company's plan to build North America's largest photovoltaic solar farm, the provincial energy ministry announced Thursday. OptiSolar Farms Canada Inc. of Arthur, Ont. — a subsidiary of California-based OptiSolar Inc. — will install more than one million solar panels at four farms outside Sarnia, Ont., providing the province with 40 megawatts of power by 2010. Ontario Energy Minister Dwight Duncan said that's enough to power 6,000 homes.

The government awarded the contract through the Standard Offer Program, which pays a premium for electricity from small-scale renewable energy providers. "The Standard Offer Program is transforming the way we generate electricity in Ontario," Duncan said in a statement Thursday. "This program is giving Ontarians the opportunity to help strengthen our energy system and clean up our air."

OptiSolar will sell the power it generates to the Ontario government, who in turn would sell it to local energy provider Bluewater Power. OptiSolar will be paid 42 cents a kilowatt-hour for the solar power generated, a much higher premium than the 11 cents a kilowatt-hour paid for wind power, another source of "green" energy in which the province has invested. "The Ontario government has chosen to take a world-leading role in encouraging the development of renewable energy, and the Standard Offer Program is making things happen," OptiSolar Farms vice-president Peter Carrie said. "Our goal is to make solar power a mainstream energy source."

The project would be the largest in North America using photovoltaic solar cells, which collect energy from the sun's rays and convert it into electricity. It's also larger than any other existing solar-cell plant in the world, although a number of projects underway would surpass or equal its size. Construction of a 40-megawatt project in Germany is already underway, and last fall, the Australian government announced funding for a proposed 154-megawatt solar power plant to be built in Victoria state and expected to be fully operational by 2013. Power plants using solar energy and operated in the Mojave Desert generate more than 300 megawatts of power, but those plants are powered through solar thermal energy, a different form of power generation that collects the sun's rays and uses them to heat a liquid that then acts to produce electricity. The Sarnia solar farm was one of 14 new alternative energy initiatives announced by the government to add more than 107 megawatts of power to the grid. Two new water-power projects with Ontario First Nations were also announced. The projects represent only a small part of Ontario's total energy consumption. Last year, Ontario had a peak demand of 27,000 megawatts.

*This article is based on a news release from the CBC.*

## **Ontario Banning Incandescent Lightbulbs**

April 19, 2007 TORONTO

Sales of inefficient tungsten-filament lightbulbs will be banned in Ontario beginning in 2012, the provincial government announced yesterday.

The ban, the first of its kind in Canada, is the latest initiative aimed at achieving a conservation goal that far exceeds anything attempted, even in California, considered a leader in the field.

"It will be lights out for old, inefficient lighting and lights on for efficient compact fluorescent bulbs (CFLs) in Ontario," Energy Minister Dwight Duncan told reporters. Mr. Duncan said the 87 million incandescent bulbs in Ontario households use four times as much electricity as CFLs, which cost about \$3 and will save consumers up to \$80 on their electricity bills over their eight-year lifespan.

Australia has announced a similar ban on inefficient lightbulbs beginning in 2010, incandescents will be switched off in Europe in 2009 and California is considering a bill to abolish the bulbs by 2012. In Canada, Nova Scotia is also considering a ban.

(cont...)

(...cont.)

Mr. Duncan rejected suggestions that CFLs might pose a fire hazard, noting that safety authorities have given them the nod. The province's Electrical Safety Authority issued an advisory last month saying the bulbs may emit smoke, an odour or a popping sound when they expire, but that they pose no shock or fire danger.

The energy minister also downplayed the risks associated with small amounts of mercury contained in each of the spiral-shaped bulbs. "There's less mercury in a CFL than there is in the battery in your wristwatch," he said. "You can dispose of them the same way you dispose of other household hazardous waste."

*This article is based on a news release from the Ottawa Citizen.*

## **Simulation Reviews for LEED® Projects**

April 11, 2007, OTTAWA

In December 2006, Natural Resources Canada (NRCan) announced changes to its Commercial Building Incentive Program (CBIP). NRCan has since confirmed that CBIP financial incentives are no longer available for new commercial green building projects. "Our collaboration with NRCan continues and we are working on other ways to support the growing momentum of green building in Canada," says Thomas Mueller, president of the Canadian Green Building Council (CaGBC). Progress will be posted in the CaGBC newsletter.

CBIP continues to perform simulation reviews for the LEED® Canada-NC Energy & Atmosphere Prerequisite 2 (EAp2) and Credit 1 (EAc1) certification submittals for projects following Model National energy code for Buildings and CBIP's simulation procedures using the EE4 energy simulation tool. Due to high demand, this process requires at least six months. For project teams interested in seeking alternatives to the CBIP process, new information and options are in development:

### **1. Independent Energy Review Criteria**

One alternative to the CBIP review is for LEED registered project teams to involve independent energy design assessors. To facilitate this approach, the CaGBC is developing qualification criteria, review protocols and baseline data for the reviews of EAp2 and EAc1. This information will be posted in June 2007 in the LEED section of the CaGBC website.

### **2. Technical review through the CaGBC**

This new alternative to the CBIP technical review will allow project teams to have reviews completed through the CaGBC. The Council will add the necessary expertise to existing LEED certification review teams. This new option will be available starting in June 2007 for \$1700 per project. More details will be published in the April eNews.

### **3. Technical review requirements and tools**

For project teams interested in exploring other review options, details about simulation requirements and current tools are available in the LEED Canada for New Construction 1.0 documentation:

- EAp2: p.36 of the Rating System, and p.177 and 180 of the Reference Guide, and
- EAc1: p.40 of the Rating System, and p.195, 198 and 206 of the Reference Guide.

*This article is based on a news release from the CaGBC.*



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**Past President**

## Annual Golf Tournament 2007

by Cathy Godin  
Past President 2004-2005

### ASHRAE OTTAWA VALLEY CHAPTER ANNUAL GOLF TOURNAMENT

Mark your calendars - this year's event is to be held

Thursday September 27, 2007

Loch March Golf Club, 1755 Old Carp Rd., Kanata

1:00 p.m. shotgun start

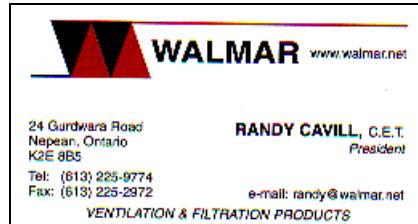
Four-person scramble format (best-ball)

Dinner to follow

Prize raffle for the benefit of ASHRAE Research Canada

Registration information will follow in the summer Communiqué. If you have any immediate questions or concerns, please send them via email to

[cathygodin@bellnet.ca](mailto:cathygodin@bellnet.ca)



Past President



## Research Promotion 2006-2007

by Jay Doshi P.Eng.  
Chapter President 2005-2006

I am pleased to inform you that **Enbridge Consumers Gas Company** has donated \$4,000 to ASHRAE Research. The Ottawa Valley Chapter would like to thank Enbridge for their support of ASHRAE Research. This should encourage all our chapter members and companies to contribute.

**DONATED TO ASHRAE RESEARCH YET?** If you haven't, we need you to come forward and be counted!! Please contact any of our board of governors to get your donation in. We need your support to meet our goals for the region and for the Ottawa Valley Chapter.

### HOW DOES YOUR DONATION HELP US?

All funds raised in Canada go towards ASHRAE Research Canada;  
ASHRAE has a policy of matching contributions dollar for dollar;  
Canadian companies/institutions receive more funds per Society member;  
Every dollar contributed about four (4) U.S. dollars are being reinvested back into Canadian HVAC&R research projects

### WHY DONATE?

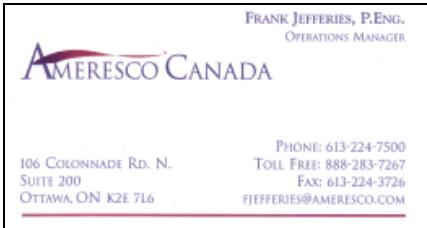
Jobs!! Research today means opportunities tomorrow and increased business.  
Research contributions by individuals of \$ 100 CDN or more and corporate contributions of \$ 150 CDN or more will qualify the donor to receive a commemorative coin  
Your name listed is in the 2006-2007 ASHRAE Research Investors Honour Roll, ASHRAE Journal magazine, on the Ottawa Valley Chapter website and on table cards at the chapter meetings

We sincerely hope that that you and your company will once again renew, or even increase, your much needed investment in *ASHRAE Research Canada*.

Please consider renewing your support as soon as possible so we can put your investment to work as well as recognize your contributions on our website immediately. Please contact me or any board of governors if you need help on how to make your donation.

Thank you for your support.

In your service,  
Jay Doshi  
E-mail: jay.doshi@siemens.com  
Research promotion Chair 2006-2007



Your card here!



Past President



## Table Top Display

by Frank "Johnny Cash" Bann  
Past President 2001-2002



The Wilo Stratos smart circulator is a self contained, self regulating variable speed circulator with ECM motor technology permitting electrical energy savings up to 80% when compared to a standard commercial wet rotor type circulator. This product may be used in closed loop hot water heating systems and air conditioning systems in commercial and industrial applications operating within a temperature range of between -10 degrees Celsius to 110 degrees Celsius and flow rates between 10 GPM - 285 GPM.

The Stratos offers many benefits including self air venting operation, an external Cataphorisis protective finish offering protection against corrosion on the volute due to condensation, built in overamperage and rotor locking protection and user friendly red button technology permitting the adjustment of setpoints and monitoring with the touch of a button (remote infra-red control option also possible). Optional control plug in interface modules are available permitting standalone single or dual pumping or control by a building automation system. The Stratos has won multiple energy efficiency and environmental awards in the European market but is new to North America ; it has recently received North American approvals (ULc) for Canada and the US.



The Master Group L.P. – Canada's Largest Independent HVAC distributor will be presenting various product lines from its Refrigeration, Commercial, Industrial and Heating divisions including York, Mammoth, Fujitsu, RBI and Water Furnace.

## D&M Mechanical Sales

Introducing the new smart control system from Lochinvar as well as the Knight condensing boiler features.



## Special Notice Date Change for May Meeting

By Glenn MacLean

Mark your calendars, send yourself a meeting reminder, synchronize your Blackberry's!

The May meeting will be held on **May 29th, the last Tuesday of the month.** Meeting location has not changed.

**Terry Townsend**, President, ASHRAE Society will be our guest speaker for the evening and will speak on his concerns about Climate Change and his vision of Sustainability. This is a rare opportunity for us at the chapter level, however, due to Mr. Townsend's busy schedule we were asked to change our meeting date to be able to accommodate his visit.

We will continue to remind all our members in the meetings and newsletters to follow, and have updated the meeting date on the website. ***Please pass the word - this is not a meeting we want you to miss.***

Regards,

Glenn MacLean



## Business Card Ads

by Rod Lancefield

You can support your chapter and promote your business by placing your business card in the Capital Communiqué. It will appear in the electronic and printed version as well as on the Chapter website.

Cost is \$225.00 for the year; contact Rod Lancefield, [rodl@htseng.com](mailto:rodl@htseng.com) , (613) 728-7400.

\*\*\* end of Communiqué \*\*\*



Your card here!

