



Capital Communiqué



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

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OTTAWA VALLEY CHAPTER

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EVENING PROGRAM

2009 - 2010

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Georges Maamari

Publicity

Jason Alexander

Table Top

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Mike Swayne

Roster

Kevin Toll

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Roderic Potter

PAOE

Christine Kemp

Business Cards

Rod Lancefield

Nominations

David Eastwood

CRC Action

Jason Alexander

DATE: Tuesday **October 20, 2009**. 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: **Chilled Beams**

SPEAKER: **Joe Hirsh**

OVERVIEW: Today, there are a great number of alternative HVAC systems to choose from. Your choice, of course, will depend on the type of building and what it is used for. Chilled beams are the system of choice for creating good indoor climate. They provide efficient temperatures and high indoor air quality. Water is also an excellent carrier of energy and that is why energy and costs savings for chilled beams are higher than for many other systems.

The presentation will guide you through the why and how of chilled beam; from active chilled beam applications to system design challenges. You will learn about the different types of product designs and how they are applied. Chilled beams are a versatile comfort solution for both new buildings and retrofit.

BIO: Joe Hirsch joined Titus as an Innovation Engineer in 2007 and focuses on key subjects like Active Chilled Beam, Displacement Ventilation, Energy Savings, IAQ and improving air distribution products. As a product engineer with more than 20 years of hands-on experience, Joe has developed a broad range of HVAC products for commercial, residential and automotive applications. Joe received his BS in Mechanical Engineering from the Konstanz College in Germany with a specialty in AC system design. Prior to joining Titus, Joe spent time as an engineer with SUEMAG in Stuttgart, Germany and BEHR in Fort Worth, TX.



Menu

Assorted Rolls and Butter, Crisp Green Salad
Roast pork loin with a Dijon sauce Served with Roasted Potatoes and Seasonal Vegetables
Strawberry Short cake, 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

I hope those who attended our social September meeting got a taste of what the ASHRAE Ottawa Valley Chapter (OVC) is trying to bring back to the chapter. Not just a continuing of education and technical expertise, but also of social networking and value. We all work hard and at some times play hard too! There is a balance to family, work and friends and I think we are all guilty of getting priorities out of order from time to time.

Sustainability, in a broad sense, is the capacity to endure. It can be defined in biological terms as the ability of an ecosystem to maintain ecological processes, functions, biodiversity and productivity into the future (courtesy of Wikipedia).

The theme for this upcoming meeting fits well with this definition. The theme for the October meeting is TEGA and ASHRAE Research. The TEGA committee is responsible for the continuing education and transfer of information from industry and experts to the new generation and government agencies. ASHRAE research yearly spends millions in advancing the various fronts of our industry. These two key aspects play heavily into the sustainability theme we all hear so much about, in all aspects of life. Patrick St. Onge is heading up our ASHRAE research promotion campaign this year and can detail how your donations affect us all.

Shortly we will be publishing more information on our series of upcoming seminars to help the OVC continue its education. I ask you to review the seminar topics and if you have never attended one of these ASHRAE Learning Institute seminars, they are very well done and offer exceptional value for our OVC!

The evening program is back to a technical nature and an overview of chilled beams will be provided by one of the best in the industry. Chilled beams offer great promise but the relative inexperience of our industry with this method means there is a reluctance and reservation. The capacity to endure means we must change our thinking as a society. The change in thinking starts with each individual. The ASHRAE OVC will be offering ways for the membership to advance themselves this season and for many more to come. Let us educate ourselves and help each other to move towards the green future.

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

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What you missed at our September 2009 meeting

By Paul Baker

First of all we broke with our recent September Meeting tradition and moved from The Prescott where ASHRAE meetings were held in the 1950's to The Cathay House where ASHRAE meetings were held in the 1970's. This brought back memories for some of us. Every year when we had the September meeting at The Cathay House, the treasurer would be at a table at the top of the stairs taking annual dues payments. That meant between 5:30 and 6:00 there would be a line up back down the stairs and out the door as each member wrote out his cheque and waited for a receipt.

The buffet hadn't changed (good). The pillars were still in the same place (bad – now I remember why we moved to Phillias Fogg in the mid 1980's). The awful full wall brown and yellow curtain was gone (good). The bathroom facilities were exactly as I remember them (bad). The bar was in the same place (good).

The highlight of the business session was Christine Kemp presenting Rod Potter with the Lou Flag Award.

Rod then took over the meeting by running a well prepared and well-organized trivia quiz. Stephen Lynch was the official score keeper. These two took the various teams of four through 200 questions (and probably 100 disputes) at a quick and entertaining pace complete with arbitrary rulings, partial adherence to the rules, and lots of laughs.

If you ever get an e-mail from Rod Potter you know that he always closes with 'motivation is the key' but I think on September 15th he showed everyone that, as far as the strength of an ASHRAE Chapter is concerned, good fellowship and good fun is also the key. He picked an activity that attracted very young teams like the Algonquin students and our own G-Force team (G for Geezer I believe was Don's thinking) so that we ended up with a great cross section of the Chapter membership playing along. It was reminiscent of George Carscallen's "Nights at the Races" in the 1980's and, even though I'm too young to have first hand knowledge, I'm sure it was comparable to the evenings of "Bullshit dollar bill poker" (B.L – before loonies) back in the 1960-70's. A night like that is every bit as important to sustaining the Chapter as a good speaker.

On behalf of the whole Chapter thanks to Rod, Stephen, and Pat Albert (our behind the scenes guy) for a great evening.

Paul Baker



Membership

By Philippe Lemieux

2009-2010 OVC Membership Promotion Chair

The ASHRAE Ottawa Valley chapter would like welcome its new members for August and September. They are:

- Mr. David Chabot
- Mrs Erika Lauzon
- Jeremy D'Brox.

The membership committee is still looking for some volunteers if anyone is interested please contact me.

Thank you
Phil Lemieux



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Webmaster
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Waffling On and On

by Rod Potter
Webmaster & Chapter Historian

I listen to a great deal of BBC World News, both via television, and satellite radio in the trusty minivan. If being addicted to the British anchors who perpetually have difficulty pronouncing their “R”s” makes me a newshound, so be it. Our recent quiz at the Cathay House Restaurant may have revealed some of my world-media tendencies when I was asking questions about our middle-eastern friends. I was a little surprised when few of the contestants could actually name “T’madinnerjacket” but pleased when the trusty G-Force team came through on these and other scintillating questions. Some of you might be surprised to hear that BBC World News does have some rather less serious “filler” programs slotted in between news broadcasts. One of them is a particularly frivolous offering where the regular female presenter proceeds to waffle on about “nothing” for about five minutes, after which you are left wondering if that was actually Seinfeld masquerading as a woman. And I mean Frivolous, with a capital F.

This reminds me of when I was recently listening to streaming Shoutcast Radio on WinAmp. In an effort to find something that would exist gently in the background while I was Cadding my way through 150 Slater, I searched my way onto a smooth jazz station I had never tried before. It was excellent for a while and they actually managed to play about ten great tracks before the saxophone muzak started and then to top it off suddenly the music stopped and was replaced with an ad trying to get you to download their unzip utility. Say what? Yes I was actually listening to a smooth jazz stream and for some unknown reason the powers behind the scenes thought we should all be downloading their phenomenal file unzipping program because it simply has to be better than my trusted WinRAR (as if). I guess it could be loaded with Spyware that will turn my PC camera on when I least want it to be.

In the early days of the internet I was a major Netscape user and used to make disparaging comments about Internet Explorer whenever given the chance. Recent years saw the introduction of Firefox and again I jumped onto that train right away because it was far superior to IE (and probably still is). But now of course Google has introduced Chrome, which is my latest browser of choice, for two reasons: (a) because the URL bar and the search bar are integrated, and (b) I think Google is a FAB outfit. All of the photos we have posted for our ASHRAE website are available free for everyone to enjoy, because the team at Google make it so. However, I think their days might be numbered, because Wal-Mart is rumoured to be releasing their own browser soon, which could be a threat because of their market share, although I expect you might find it difficult to find anything with this browser and it will probably not have a help section.

The October program promises to be a worthwhile effort because frankly I know nothing about chilled beams. I am told that this technology has no relation to cold girders radiating cooling energy to the masses, so I am keen to find out what it is all about. I am also hoping that the quality of the presentation will make up for the rather drivellous nature of this article, which much like the aforementioned BBC World filler, was hardly worth the paper it was printed on (although I did rather enjoy typing it). While we are on the subject of filler, you might like to visit www.FutureMe.org, where you can type an email to yourself, which will be delivered to you in the future. Perhaps an email that lists all of those passwords we are supposed to remember today would be a good idea.

Cheers from the desk of Rodders CAS



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Committee
Chair



Research Promotion

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

Hi everyone. The Research Promotion campaign will have an early start this year by officially kicking off at the October chapter meeting where we will personally recognize all of last year's donors.

Last year's campaign was an outstanding success. Robert Lefebvre and his research promotion committee have exceeded their goal by 25%. Fantastic job!

This year, we have an ambitious goal of \$20,000.00. We have already had a fantastic start. Through the raffle and hole sponsorships at the ASHRAE golf tournament in June, over \$4,380.00 was raised for ASHRAE Research Canada. The income from the Trivia Quiz in September is also being invested in Research. However, we still have a long way to go, and we need your support.

Every dollar raised for ASHRAE Research Canada stays in Canada. In reality, over 4 times the amount of research money raised in here is invested back into Canada and the Ottawa Valley gets more than its share. Over the last couple of years, more than \$350,000.00 of ASHRAE research money has been injected back into our local economy for research projects here in Ottawa. That's more than a 10 fold return on investment for the Ottawa Valley chapter!

Here are some more reasons to invest in ASHRAE Research Canada:

- Continuation of studies impacting our industry
- Development of new research, standards, guidelines and software benefiting your business & quality of life
- Recognition at the Chapter and Society Level
- Mention in the Capital Communiqué
- Mention in ASHRAE Journal
- Mention at Annual & Winter Meetings
- Commemorative Coin

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, or by credit card through me at patrick.stonge@wbbengineering.com. Donations made directly on the ASHRAE website (<http://www.ashrae.org>) are possible, but you would not get the proper recognition due to the conversion of the amounts in US dollars. If you have any questions, please feel free to contact me at 613-596-6454 ext. 318.

Thank you,

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



2008-2009 Research Promotion Wrap-Up

By Robert Lefebvre

Hi Everyone,

The results are in and the Ottawa Valley community outdid themselves this year. Thanks to your generous investments in ASHRAE Research Canada, the Ottawa Valley Chapter exceeded its goal of \$18,500.00 by \$4,959.00 for a grand total of **\$23,459.00**. ASHRAE Research as a society raised over \$2,000,000.00.

These results do not happen by themselves. There were 93 investors in the 2008-2009 OVC Research campaign; almost twice as many as last year. This is due to a dedicated research promotion committee. I would like to take this opportunity to thank Jason Alexander, Frank Bann, Glenn MacLean, Bill McKinnon, Joel Primeau and Mike Swayne for their commitment, time and effort in making this campaign a success.

Thanks once again to everyone for their past investments and we look forward to your continued support for this year's campaign. Patrick St.Onge and his committee will be contacting you in the near future.

Thank you,

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

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Review of ASHRAE Standard 62.2 –2007

By Georges Maamari
2009-2010 OVC Committee Chair

ASHRAE Society is looking for members to review the proposed addendum I to ANSI/ASHRAE Standard 62.2-2007, *Ventilation and Acceptable Indoor Air Quality in Low-Rise Residential Buildings*. Amongst other items, the addendum would involve mandatory installation of carbon monoxide alarms outside each sleeping area. The required reviews are for technical content, relevance of referenced documents, coherence, clarity, usability, applicability, enforceability, etc.

It is important as ASHRAE members to provide feedback on the standards and guidelines we use in our daily work. The project committee for the standard or guideline will respond to each comment unless it decides to submit a revised draft for another full public review. When public review drafts are available, they will be listed in the online comment database at the link below. Each descriptive link allows you to view and download a copy of the public review draft in PDF format. Reviewing the above addendum will only take a few minutes as they are typically 1 –2 pages long...so I ask that those of you interested, please contact me or visit the following link www.ashrae.org/publicreviews for more information.

Thanks,

Georges Maamari



Finance and September Quiz

By Stephen Lynch
2009-2010 OVC Treasurer

Thanks to our membership in understanding the changes in fees that were required to sustain our chapter. We will continue to bring great content and work on your behalf to ensure that our chapter remains strong and significant within ASHRAE Society.

September's meeting was a great success. Although we did not have the typical attendance we normally do, it was a fun evening. 9 teams participated in the quiz which contributes \$900.00 to ASHRAE research. The largest challenges of the quiz were to ensure fair scoring and Rod's taste in music. In the end G-Force (Paul Baker, Don Weekes, Lan Chi, Gemma) pulled off the win. Although they did not capture a lot of the music questions, they dominated on the 'Current News Event' and 'Movies'. The rest of the teams ranked as follows:

1. G-Force at (44 * 5) = 220 pts
2. Longhill Energy
3. The Ringers
4. Breck-Mar
5. Walmar
6. NRC
7. Algonquin Design Team
8. Goodkey Weedmark
9. U of O

Special thanks to Rod for the work he did in producing a well thought-out and very thorough quiz. In addition, thanks go to Patrick Albert for the audio-visual component. I think the disco ball should be a staple at every meeting.



Table Top

By Frank Bann
2009-2010 OVC Governor

What better way to display your new product, existing line or share a great idea than to have a table top at our local Chapter meeting. It's a captured audience in the industry and your guaranteed to get exposure to 60-80 people.

Book you table top today!

Table tops for the 2009 OVC ASHRAE Chapter meetings:

Nov. 17th, 2009

Jan. 19th, 2010

Feb. 16th, 2010

Mar. 16th, 2010

Apr. 20th, 2010

May 18th, 2010

Cost for table tops this year is \$200 paid to "ASHRAE Ottawa Valley Chapter"

Send to:

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Attn: Frank Bann

Invoices will be sent out prior to meeting. Contact: Frank Bann @ fbann@gwal.com or Tel: (613) 727-5111 Fax: (613) 727-5115

Spaces are filling up quickly, so book today!

The ASHRAE OVC Chapter and its board thank you for your continued support. Getting involved builds a better Chapter.

Walmart is pleased to feature Titus and their Chilled Beams at their table top.

Featuring model TCM – High Capacity, high induction 4-way air pattern provides the benefits of an active chilled beam in a module that fits a standard ceiling grid.



HTS Engineering will be featuring Modular Active Chilled Beam from Twa.

Modular Active Chilled Beams have been shown to be an excellent way to provide high performing buildings with top rated air quality and circulation for maximum occupant comfort.

We look forward to you stopping by our booth at this months' meeting.





Martine Ménard, B.Sc.
Regional Manager
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TEGA

By Georges Maamari
2009-2010 OVC Committee Chair

The theme for this month's chapter meeting is Research/TEGA. Part of the TEGA (Technical, Energy and Government Activities) mandate is to act as a liaison between ASHRAE and Government. This task is ongoing and we will be attempting to make more contact with the various government agencies in our area.

Another part of the TEGA mandate is to administer the Technology and Government Affairs awards at the Chapter level. The purpose of the awards program is to: (1) Recognize ASHRAE members who design and/or conceive innovative technological concepts that are proven through actual operating data; (2) Communicate innovative systems designs to other ASHRAE members; (3) Highlight technological achievements of ASHRAE to others, including associated professionals and societies worldwide, as well as building and facility owners.

The TEGA Committee will be looking for submissions for these awards. This is an excellent opportunity to showcase some of the innovative designs that are found in the Ottawa Valley Chapter. We are looking for submissions for buildings that have been completed and been in operation since March of 2009.

The Ottawa Chapter has many talented firms and individuals associated with it and I am sure there are many designs that are worthy of recognition. This is a chance to share them with colleagues and perhaps with other chapters. Therefore I am asking all chapter members to start bringing forward these projects.

I know it is still early in the season, but if you know of a project worth sharing with your OVC members, please come see me and we will be more than happy to help you fill out the necessary paperwork.

If you have any questions, please feel free to contact me.

Regards,

Georges Maamari



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Governor



News Update

By Georges Maamari
OVC Governor

Technical News:

Carbon Monoxide Alarms Proposed for ASHRAE Residential Ventilation Standard

September 29, 2009

ATLANTA – In a change that would bring its residential ventilation and indoor air quality standard closer in line with that of the 2009 International Residential Code, ASHRAE is proposing that carbon monoxide alarms be required in homes.

Under proposed addendum 1 to ANSI/ASHRAE Standard 62.2-2007, *Ventilation and Acceptable Indoor Air Quality in Low-Rise Residential Buildings*, carbon monoxide alarms would be required to be installed outside of each sleeping area. The proposed addendum is open for public comment until Oct. 26, 2009.

Nine other addenda, unrelated to CO, also are open for review. Steve Emmerich, chair of the Standard 62.2 Committee, said that as the standard becomes more widely used as a result of its adoption into building codes and green building programs, several clarifications are being addressed through proposed changes.

Carbon monoxide (CO) poisoning leads to hundreds of deaths and thousands of injuries each year in homes. Such poisoning results primarily from automobiles left running in attached garages but also from portable generators, power tools and heaters, according to Emmerich. A small fraction of poisonings also result from failed central heating combustion appliances.

“Residents have very little ability to sense the presence of CO without detectors, unlike many other indoor polluting events,” he said.

Whether to include CO alarms as a requirement in the standard has been discussed since the standard was first proposed. Debate has focused on the unreliability and cost of alarms. But Emmerich said the committee believes the time has come to make this change, noting that it will bring the standard into closer alignment with the 2009 International Residential Code, which requires alarms if the house has combustion appliances or attached garages, and with many states that have passed laws requiring CO alarms.

“This proposed requirement goes a step further, expanding the protection to all homes, regardless of fuel type or garage configuration, reflecting the fact that many CO exposures occur due to causes completely independent of these factors,” he said. “It also requires that alarms be hard-wired with battery backup to address an increased likelihood of high CO exposure events during power outages.”

(cont...)

Also open for public comment is proposed addendum s, which would give credits for different types of residential ventilation systems. The proposed change increases mechanical ventilation system flow rates for systems that are unbalanced or not fully ducted, unless they have a provision for mixing. Emmerich said this is a fairly significant change that has been under extensive study by the committee.

Standard 62.2 addenda open for public comment until Oct. 11 are addenda j, l, o, p, q and r while those open until Oct. 26 are m, n, s and t.

To view a copy of the addenda open for public review, go to www.ashrae.org/publicreviews. Copies of public review drafts are only available during public review periods.

Sustainability News:

ASHRAE Standard Provides Guidance for DOE Federal Standard

September 23, 2009

ATLANTA—Savings over the next 30 years from a proposed federal standard for vending machines could equal that of the energy consumed by more than 830,000 American households in a single year.

The federal standard issued by the U.S. Department of Energy is based on ANSI/ASHRAE Standard 32.1-2004, *Methods of Testing for Rating Vending Machines for Bottled, Canned and Other Sealed Beverages*, which establishes uniform testing of refrigerated vending machines to determine energy consumption. The DOE issued its ruling on Aug. 31, 2009 via the Federal Register

“As a technical organization with interests in both refrigeration and reducing energy use, we are pleased that DOE and the beverage industry look to ASHRAE as the source for standards in this critical area,” Gordon Holness, ASHRAE president, said. “We look forward to continued work with the Department and the relevant stakeholders to develop standards that meet the needs of the nation and the world.”

Given that refrigerated vending machines consume 2,500 to 4,400 kilowatt-hours (kWh) of energy per year, DOE is adopting new energy conservation standards, finding that such standards “would result in significant conservation of energy and are technologically feasible and economically justified.”

By 2042, DOE expects the energy savings to result in cumulative greenhouse gas emission reductions of 0.6 million metric tons of carbon dioxide, an amount equal to that produced by 2 million cars every year.

Fully-cooled medium capacity vending machines, the most common type currently being sold, cost \$2,625 with annual energy costs of \$188. To meet the new standards, the DOE estimates the installed prices of such equipment will increase by \$239 to \$2,864, which will be offset by annual energy savings of \$69.

Though DOE utilized the testing methods laid out in ANSI/ASHRAE Standard 32.1-2004, the department employed a test point of 75°F/45 RH rather than the 90°F/65 RH specified in the Standard. Also, DOE will take into consideration the fact that ASHRAE is currently updating Standard 32.1-2004 and will consider any changes that may result from the update.

The standards will apply to all beverage vending machines manufactured for sale in the U.S. or imported to the U.S., starting three years after publication of the final rule.



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