

# 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](mailto:contact@ashrae.ottawa.on.ca)

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#### DATE:

Tuesday **February 15, 2011.**

**Technical Session:** 16:30 Social: 17:30 Dinner: 18:30 Program: 20:00

Travelodge Ottawa Hotel & Conference Centre,

1376 Carling Avenue, Ottawa, Ont., 613-722-7600

#### THEME:

**Membership/YEA [Young Engineers in ASHRAE]**

#### PROGRAM:

**Energy Efficient and Sustainable Buildings – The Opportunities Ahead**

#### SPEAKER:

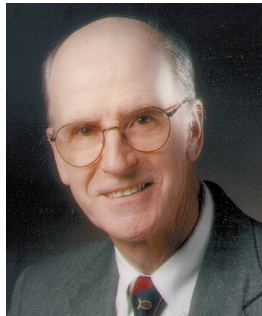
**Gordon Holness, P.E.,** ASHRAE Fellow, Consulting Engineer

#### OVERVIEW:

This “Presidential Address” on Sustaining our Future by Rebuilding our Past will look at the importance of addressing existing buildings if we are to achieve ASHRAE’s Sustainability Goals. It will address the impact that building energy use has on our environment and the underlying issues of CO<sub>2</sub> emissions and energy sources. In developing an overall cohesive program, Mr. Holness will identify the role of ASHRAE’s Advanced Energy Design Guides, Standards 90.1 (Energy Standard for Commercial Buildings), and Standard 189.1 (Design of High Performance Green Buildings) in that effort, and the potential for Standard 100 (Energy Conservation in Existing Buildings) to be redeveloped to address current technology for building renovation programs. The presentation will identify the importance of Commissioning and Retro-Commissioning, as well as that of Operation and Maintenance as key tools if we are to keep our green buildings green. For each of these elements the presentation will look at our path forward in order to maintain our momentum and leadership in these areas.

#### BIO:

Gordon V.R. Holness is a consulting engineer and Chairman Emeritus of Albert Kahn Associates, Inc. Architects and Engineers in Detroit Michigan. He has just completed his term as Society President ASHRAE 2009-10. He received his degree in Mechanical Engineering from the National College in London, and is a registered professional engineer in 42 states and four provinces and a chartered engineer in the UK. He is a fellow of the Michigan Society of Professional Engineers and has served on the Board of the Economic Club of Detroit. He has over 50 years experience in the design and construction industry specializing in Industrial, Health Care and Commercial Building mechanical systems design.



Mr. Holness is a Fellow in the American Society of Heating, Refrigerating, and Air Conditioning Engineers (ASHRAE). He is a recipient of ASHRAE’s Distinguished and Exceptional Service Awards, the Crosby Field Award for the best paper published by ASHRAE in 2003. He served as chairman of the Society’s Professional Development Committee and as the ASHRAE representative on the Advanced Energy Design Guide Steering Committee and the building SMART Alliance. He has published numerous articles and papers in United States and Canada Journals on topics related to various aspects of Engineering Design Technology.

#### Menu

Chapter Members: \$35.00 Guests: \$50.00

Assorted Rolls and Butter, Crisp Green Salad with House Vinaigrette

Thyme Crusted Supreme of Chicken, Wild Mushroom Sauce served with Roasted Potatoes and Vegetables

New York Style Cheese Cake with Raspberry Coulis with Coffee/Tea



## President's Message

by Christine Kemp  
2010-2011 OVC President

This month's theme is Membership and YEA (Young Engineers in ASHRAE).

Speaking about YEA, we have four young guys who are all currently employed in our industry heading to Las Vegas to accept a very prestigious award. These former Algonquin Students came third in North America in the ASHRAE Student design competition under the category of system design. Congratulations, Peter Shaw-Wood, Joe Della Valle, Pat Moore & Kevin Lamarche. We are all very proud of them. I would also like to thank Chris Frauley, Barry Riddell and Matt Edmonds for all of the help that they gave to these students. It paid off.

Membership is so important to our organization. So far this year we have had great success. We have many new members. Adam Moons and Matt Edmonds have been putting a lot of extra effort forward to engage young new members in ASHRAE. To date they have had two YEA nights, the next one is Thursday February 10<sup>th</sup> at the Heart and Crown on Preston. It is our hope that these young people will see the benefits of joining ASHRAE and approach their employer to support them.


## Why Should My Company Support My Participation in ASHRAE?

**Membership in ASHRAE gives you so much more than a card for your wallet and a certificate for your wall.**

Here's why your employer needs an ASHRAE member on their staff:

- ASHRAE Members have access to members-only areas of ashrae.org where the **latest technical information** is available, updated regularly and relevant to what is going on in the industry. The **body of knowledge** on the website and in member communications makes you an information expert for your company.
- Volunteer opportunities at local chapters and on committees at the society level **put ASHRAE members at the table where many important decisions are made**. Bringing your knowledge to ASHRAE benefits the industry, the Society and you! Be a leader!
- Professional development through ASHRAE courses and certification **improves your skill set** and helps you remain a viable and important part of your staff. Be the go-to person and **subject specialist** on your team.
- Networking keeps **your company name in front of leaders in the industry** and members of the society. Attend your chapter meeting or the annual and winter conferences and make contacts and share information - **key to growth for you and your company**.

Tell your company it is time to make an investment in you with ASHRAE membership. Be in good company.


  
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## Membership

By Adam Moons  
2010-2011 OVC Membership Promotion Chair

Greetings Everyone!!

Hard to believe that we have already moved through an entire month and that the ASHRAE season is half over. Now is a perfect time to take advantage of the Ottawa Valley Chapter's special offer!! Every new member of our chapter is now eligible to take part in all the same things as everyone else!! Although this is not a limited time offer, it is still one that provides those in the HVAC/R community an excellent opportunity to learn, network and advance both personally and professionally. Please encourage your colleagues and friends to come out and take part.

Should you, or any of your acquaintances, have any questions regarding ASHRAE, please don't hesitate to contact me.

I would also like to welcome the following new members:

Mr. Guillaume Tremblay Mr. Daniel E. Vivian

Thanks for all your support!

Adam Moons  
OVC Membership

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## What You Missed – January Meeting

by Rod Potter

Secretary, Chapter Historian, Gopher and Webmaster

The main meeting took place at the Travelodge Hotel and Conference Center on Carling Avenue in Ottawa, in our normal upstairs room.

We were blessed with a technical session hosted by our own Joel Primeau, from about 16:45 through 17:30, and its topic was “HVAC Fundamentals”. This was followed by a social hour – Adam Moons stepped in as photographer and did a fine job.

The business session started with President Christine Kemp introducing the Board of Governors and Executive, followed by Secretary Rod Potter who introduced the guests for the evening. Adam Moons then stood to announce the new members for this month: Richard Croucher, Dan Bradley, Brian Warren, Robert Saunders, Joshua Hale, Thomas Burke, and Geoff Chadsey. President Christine Kemp reminded us that ASHRAE Ottawa Valley Chapter encourages members to sponsor student meals. Joel Primeau, Gemma Kerr, Cathy Godin, Paul Lemieux, Paul Baker, Adam Beales (he paid for two!) and others stepped up – we salute them.

Chris Healey stood to announce the upcoming ASHRAE OVC Bonspiel on March 4<sup>th</sup>, 2011 at the Nepean Sportsplex. Jason DeSousa extolled the virtues of Joel Primeau’s tech session “HVAC Bootcamp” which was by all accounts most excellent and attended by as many as 25 people. Past President Cathy Godin oversaw the raffle ticket sales for the Senators Game Ticket Giveaway Draw (courtesy Genivar).

The dinner was buffet style and although the menu was listed as fabulous Poached Salmon in the January Communiqué, it turned out to be fabulous chicken, much to my relief. I don’t think anyone noticed. I asked Rebecca McHolm what she thought about it and she was speechless. Katherine Sidwall was similarly lost for words.



Soon after the hilarity of dinner, the Senators tickets were won by Doug Graham of Tamco, and this raffle earned \$260 for ASHRAE Research, always a bonus. Governor Georges Maamari spoke about this new TEGA year and encouraged entries for the various categories of building. Deadline for entries is March 4<sup>th</sup> 2011. President Christine Kemp thanked the parties who provided Table Top Displays: Glenn Maclean of Engineered Air and Johan Martensson of Creotech spoke about their display. Stephan Riffault of Regulvar spoke about their display. Cathy Godin spoke briefly about the upcoming ASHRAE Vegas show (Jan. 29<sup>th</sup> – Feb. 2<sup>nd</sup>) and asked for a show of hands for attendance (about 10 went up) and she reminded us of a membership committee meeting that all could attend.

*The evening Program was “La Cité Verte” – a wonderful mixed use condominium development in Quebec City.*

Speaker Claude Routhier of Poly-Energie Inc. was first to speak. His slideshow was entitled “How to Make it Green” and described the following:

- Demolition of existing buildings on the site;
- Description of the 840 homes and community spaces planned around collective equipment;
- How the project is following the tenets of LEED for neighborhood development;
- The main design highlights such as increasing population density, managing rainwater, reducing road surface, public transit, interactive street lighting, district heating, and pneumatic waste recovery;
- The prime heating is via a 5MW biomass plant with a “neutral” carbon footprint, providing low temperature hot water via a district heating scheme, with 2 km of hydronic piping;
- There are 20 district heating substations ranging from 15 to 1400 kW in capacity;
- Prime fuel for the boiler plant is premium quality wood pellets which have a pollution rating similar to heating oil. There are 4 boilers each rated at 1250 kW plus a 5.2 MW gas-fired back-up plant.

Speaker Marc Dugré of Regulvar spoke next. His slideshow described the intricacies of the control system being installed for the entire site:

- Control of the boilers, pellet movement, chimney monitoring, network pressure, district heating substations, secondary side temperature control, and flow measuring and metering;
- Each tenant has a touch-screen web-portal revealing real-time energy usage and costs;
- The system makes use of wireless technology.

The site is currently under construction and a typical 2-bedroom condominium will be priced at approximately \$350K. It occurred to us that the next CRC in August 2011 will be in Quebec City, and this would be a wonderful tour. Hopefully it will be offered to all who attend.

President Christine Kemp thanked both Claude and Marc for their presentation and gave each a small gift. The meeting adjourned 9:15 PM.



Richard Albert, Joel Primeau, and Doug Graham, winner of the Senators ticket raffle



Marc Dugré of Regulvar, President Christine Kemp, and Claude Routhier of Poly-Energie

As always, you can visit our website to peruse all of the photos from this and previous meetings. Go to the “This Year” page and click on the links on the left side of the page:

[http://www.ashrae.ottawa.on.ca/ashraeoc\\_ThisYear.shtml](http://www.ashrae.ottawa.on.ca/ashraeoc_ThisYear.shtml)

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## Student Activities / Young Engineers of ASHRAE (YEA)

by Matthew Edmonds  
2010-2011 Student Activities Chair

Welcome to 2011 and to a fresh year of student activities! I hope everyone had a fun and safe holiday season. With the interest from both Carleton University and Queen's University in reestablishing their student branches, and both Algonquin College and CEGEP de L'Outaouais full steam ahead on the design project, this year should be one for the books.

The first order of business for 2011 is the ASHRAE CAREER FAIR. Mark your calendars people, Tuesday March 8, 2011, held right in Salon A on the Algonquin College Campus. We are expecting a lot of student participation this year, and being right on campus promises great exposure. Exhibitor information will be distributed this week and we need your support, so please contact me directly (613-226-3856 x 26) for more information.

December also played host to our first YEA / YCEC (Young Construction Executives Club) Networking Event, and Adam Moons and I would like to thank all of you who participated. The evening was a great success, and we only see positive things coming from these gatherings in the future. We have a number of different ideas as we move into 2011, and will be in touch shortly with details. Our hope is to facilitate evenings that you will all see as a benefit. We appreciate your support and involvement.

As with all other monthly meetings, we encourage individuals or companies to support a student through sponsoring their meals. Please let the greeters at the front know that you would like to sponsor a student for the night. If you sponsor student meals throughout the year we will recognize your contributions by issuing you a receipt for your investment in Student Activities, publish your name and/or company's name on our website, and include you in our list of previous donors in the Capital Communiqué. We hope to see even more of a student presence this year, which means we will really need your help! Your contributions last year allowed us to keep the students coming to each meeting even though they were on limited budgets, so thank you so much for your support, and let's keep it up!

Best Regards,

Matthew Edmonds  
Student Activities Chair

*More student related information from ASHRAE:*

### Check This Out:

ASHRAE Student Zone: Scholarships and Grants to Careers and Internships... <http://www.ashrae.org/students/>

ASHRAE Scholarship Program <http://www.ashrae.org/students/page/1271>

Smart Start Program – Don't know what it is? Every Student Should! <http://www.ashrae.org/students/page/703>

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# TECHNICAL SESSION

by Joel Primeau  
OVC Past-President (1999-2000)

When: February 15<sup>th</sup>, 2011 (Before the monthly meeting)

What time: 16:30 to 17:30

Who is invited: Everyone

Joel Primeau, Director of Sustainable Design at GENIVAR, will be presenting his on-going HVAC training series again this month. This module's topic is "Heating and Cooling Load Calculations". This topic actually takes 2 hours to cover, so February's session will be part one and we will conclude it in March.

January's session on HVAC fundamentals was well attended; we're expecting even more people to attend the class in February.

Joel Primeau



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## ASHRAE Society News

by Steve Moons  
2010-2011 OVC Governor

More than 50 percent of the total energy consumption of data centers can be attributed to the power and cooling infrastructure that supports the IT equipment housed in them. Guidance in a new book from ASHRAE aims to help reduce that energy use through proven, easy-to-implement tips.

“Green Tips for Data Centers” identifies techniques for optimizing energy efficiency in existing datacom facilities. Many of the techniques can be implemented through simple operational changes, upgrades or modifications that require a relatively low investment and that cause little disruption to the existing operations of the IT equipment.

“The book has particular relevance right now since there is a significant focus on energy efficiency in data centers,” Don Beaty, co-founder of ASHRAE Technical Committee (TC) 9.9, Mission Critical Facilities, Technology Spaces and Electronic Equipment, said. “While it is fun and exciting to look at how we can design new data centers to be energy efficient, the fact is that there are many, many existing datacenters in operation.”

Among the 26 tips from the book are:

- Optimize supply air temperatures
- Install monitoring equipment
- Improve lighting efficiency
- Optimize data storage
- Improve transformer efficiencies

“The tips provide insight into practical techniques that have proven successful in other datacom facilities and give owners and operators the confidence to implement similar techniques in their own facilities,” Beaty said.

The book is part of the *ASHRAE Datacom Series*, developed to provide a more comprehensive treatment of datacom cooling and related subjects. Other books in the series are “Particulate and Gaseous Contamination in Datacom Environments,” “High Density Data Centers – Case Studies and Best Practices,” “Design Considerations for Datacom Equipment Centers,” “Best Practices for Datacom Facility Energy Efficiency,” “Thermal Guidelines for Data Processing Environments,” “Liquid Cooling Guidelines for Datacom Equipment Centers,” “Datacom Equipment Power Trends and Cooling Applications” and “Structural and Vibration Guidelines for Datacom Equipment Centers.”

### Break Time - The Engineers and the Accountants

Three engineers and three accountants are travelling by train to a conference. At the station, the three accountants each buy tickets and watch as the three engineers buy only a single ticket. "Three people and only one ticket, how's that going to work?" asks an accountant. "Watch and learn," answers an engineer.

They all board the train. The accountants take their comfortable seats but all three engineers cram into a toilet and close the door behind them. Shortly after the train has departed, the conductor comes around collecting tickets.

He knocks on the toilet door and says, "Ticket, please." The door opens just a crack and a single arm emerges with a ticket in hand. The conductor takes it and moves on.

The accountants saw this and agreed it was quite a clever idea. So after the conference, the accountants decide to copy the engineers on the return trip and save some money.

When they get to the station, they buy a single ticket for the return trip. To their astonishment, the engineers buy no tickets at all.

"Three people and NO tickets, how on earth can that work?" asks one perplexed accountant. "Watch and learn," answers an engineer.

When they board the train the three accountants cram into a toilet and the three engineers sit comfortably nearby. The train departs. Shortly afterward, one of the engineers walks over to the toilet where the accountants are hiding. He knocks on the door and says, "Ticket, please."





## Young Engineers of ASHRAE (YEA)

by Matthew Edmonds  
2010-2011 Student Activities Chair

Hello All!

For those of you not yet aware, the second Thursday of every month now plays host to our world famous YEA Networking Events. The events have been run in conjunction with the YCEC's (Young Construction Executives Club) monthly Networking Event to ensure maximum networking capability among young professionals. Our first two events have been quite successful and we only see positive things coming from these gatherings in the future. Adam Moons and I have a number of different ideas as we move into 2011, but we will keep you on the edge of your seat and wondering for now. Our goal is to facilitate evenings and events that you will all see as a benefit. Adam and I appreciate your input, support, and involvement, and we would like to thank you all for making these events a success!

### **NEXT YEA EVENT: NETWORKING**

**WHEN:** Thursday February 10, 2011; 6pm-8pm

**WHERE:** The Heart and Crown on Preston

**WHY:** This is a perfect opportunity for you to network with other young professionals. It is also the perfect venue to invite someone out that you want to get to know.

**WHO:** YOU! \*\*

\*\* "YOU!" assumes that you meet all YEA criteria. If you are unsure whether or not you meet the YEA criteria, there will be security at the door to assist you in determining your eligibility and either show you to the table or to the ditch outside.

Best Regards,

Matthew Edmonds  
Student Activities Chair

Adam Moons  
Membership Chair



## Student Meal Sponsors

by Donald Weekes  
2010-2011 OVC Treasurer

In an effort to have more students attend we need sponsorship to cover the cost of meals of students as long as they have a valid ASHRAE membership. We would like to thank the following individuals for their sponsorship in past meetings

- |                                    |                                   |
|------------------------------------|-----------------------------------|
| 1) Matt Edmonds – 3 student meals  | 8) Darryl Boyce – 1 student meal  |
| 2) Barry Riddell – 1 student meal  | 9) Mike Swayne – 2 student meals  |
| 3) Greg Santyr – 1 student meal    | 10) Adam Beales – 2 student meals |
| 4) Marc Chiasson – 3 student meals | 11) Cathy Godin – 1 student meal  |
| 5) Pat Albert – 2 student meals    | 12) Paul Lemieux – 1 student meal |
| 6) David Chabot – 2 student meals  | 13) Joel Primeau – 1 student meal |
| 7) Paul Baker – 1 student meal     | 14) Gemma Kerr – 1 student meal   |

Thank you for your continued support currently we are breaking even for student meals. Should you have any questions, please do not hesitate to contact the Treasurer.



## Table-Top Displays

Frank Bann P.Eng.  
2001-2002 OVC Past-President  
2010-2011 Table Top Committee Chair

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 you are guaranteed to get exposure to 60-80 people.

Book your table top today! E-mail: [fbann@gwal.com](mailto:fbann@gwal.com)

## Table Tops for February's Meeting are:

### Walmar Plumbing Products

Walmar Plumbing Products is proud to present LAARS boilers and will display a small modulating condensing boiler, and a state of the art Neotherm. (small footprint, 5:1 turndown, built in sequencing control) as well as literature on the full line, focusing on new energy efficient products.



A subsidiary of **BRADFORD WHITE-CANADA™ INC.**

### The Master Group L.P.

The Master Group is proud to be the exclusive distributor for Titus products in all its territories from Eastern Ontario to the Atlantic provinces. With over 60 years of innovation, Titus is the commercial HVAC leader; providing energy saving solutions through Grilles, Diffusers, Terminals and Fan Coil Units.



### Walmar Ventilation Products



Walmar Ventilation Products is proud to present insulated dampers, fire dampers and acoustic louvers.





## NORR Career Opportunity

# NORR

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NORR Limited is a multi-discipline team of Architects, Engineers and Planners with a diversified sector portfolio. We deliver creative global building solutions for both private and government clients including commercial office buildings, as well as facilities for education, sports and recreation, hospitality, justice and correctional services, aviation and biotechnology. We are seeking a Senior Mechanical Engineer to lead our team in Ottawa. The candidate will report directly to the Manager, Mechanical and Electrical Engineering.

Position requirements will include:

- Leading and prioritizing multiple mechanical engineering design projects from original concept to complete preparation of construction drawings and specifications including tender and post tender process submissions, and construction contract administration
- Mechanical building systems investigation and report preparation
- Management and mentoring of staff
- Effective written and oral communication skills
- University Mechanical Engineering degree with 9 to 12 years' experience in Plumbing, HVAC, Fire Protection, and Building Automation System design and investigation in the Consulting Engineering field
- P. Eng. designation in Ontario

We offer a competitive salary and compensation/benefit package, and a flexible work schedule in a professional and collaborative work environment.

Please direct your resume in confidence to:

Jonathan Hughes, OAA, LEED AP  
Principal  
NORR Limited  
55 Murray Street  
Suite 600  
Ottawa, ON, Canada K1N 5M3  
[Jonathan.Hughes@norr.com](mailto:Jonathan.Hughes@norr.com)



## 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 also appear on the Chapter website.

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



Your card here!

