



# Capital Communiqué



## 2010 - 2011

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### EVENING PROGRAM

**DATE:** Tuesday **April 19, 2011**. Tech: 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:** **Research**

**PROGRAM:** **Green Codes & Standard 189.1**

**TECH SESSION:** **Psychrometric chart by Joel Primeau** (please see later article for more detail)

**SPEAKER:** **Kent Peterson, PE, LEED AP, ASHRAE Presidential Fellow**

**OVERVIEW:** Learn about ANSI/ASHRAE/USGBC/IES Standard 189.1, Standard for the Design of High-Performance Green Buildings, except Low-Rise Residential. The standard is intended for code adoption and provides minimum requirements for high performance new buildings and major renovations.

This lecture explores this new standard and its impact on green building codes by providing detailed information regarding the intent, criteria, and goals of implementing this standard. Current and future direction of building energy standards and codes is also discussed.

Attendees will be able to:

- Differentiate Standard 189.1 from green building rating systems (e.g., LEED, Green Globes)
- Recognize the importance of developing a code-intended standard for design of high-performance green buildings
- Identify mandatory provisions in Standard 189.1 to increase awareness of the intent of the standard
- Identify the two compliance path options (Prescriptive and Performance) and their associated provisions in Standard 189.1

**BIO:** Kent Peterson is Vice President and Chief Engineer at P2S Engineering with over 25 years of experience working in consulting engineering. He is a Past Society President of ASHRAE. He is chair of the ASHRAE Associate Society Alliance. He also chairs the California State University Mechanical Review Board. Mr. Peterson serves as Chair of ASHRAE/USGBC/IES Standard 189.1 – Standard for the Design of High-Performance Green Buildings. He has also authored a number of articles and papers and has made presentations to governments and professionals throughout the world on improving building sustainability and energy efficiency.

#### **Menu**

Chapter Members: \$35.00 Guests: \$50.00

Assorted Rolls and Butter, Crispy green salad,

Roasted Alberta Beef with Herb Jus, Served with Roasted Potatoes and Seasonal Vegetables

Double Chocolate Cake with coffee or tea



## President's Message

by Christine Kemp  
2010-2011 OVC President

Earth Day is April 22, 2011. As members of ASHRAE, we have an active role in Earth Day. We have a responsibility as an industry to lead others and support a healthier environment every day. As leaders in our respective fields, the work we do today will have a positive influence on the future.



I wanted to find out more about Earth Day. Their website has a lot of great information. [EARTHDAY.CA](http://EARTHDAY.CA)

They have education programs such as K-8 Earth Day Canada environmental education program, Ecokids found at [ecokids.ca](http://ecokids.ca). This site is full of games and activities for kids, along with free lesson plans and support material for teachers – all linked to Ministry of Education curriculum standards and expectations.

In a section of this site, they ask you to “Challenge Yourself to save”. An EcoAction Calculator is offered as a great online tool to help to reduce your environmental impact. Learn about simple things you can do and take action. Switch to energy efficient light bulbs, walk and cycle more, use less water, and buy local produce and foods. It seems like small stuff, but the more people who do participate will make it add up to something substantial.

Earth Hour was held on Saturday March 26<sup>th</sup>. According to Hydro Ottawa, there was a 4.5-percent reduction in electricity use on Saturday between 8: 30 and 9: 30 p.m., down from six per cent in the previous two years.



ROY SAMHABER, P.ENG.  
SENIOR PROJECT MANAGER

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## What You Missed – March Meeting

by Rod Potter  
Secretary, Chapter Historian, Gopher and Webmaster

The meeting took place at the Travelodge Hotel and Conference Center on Carling Avenue in Ottawa, in the Greenery Room upstairs.

Joel Primeau provided another “HVAC Bootcamp” technical session prior to the social hour. This month’s topic was “Heating and Cooling Load Calculations (Part 2 of 2)”, this one concentrating on infiltration and ventilation loads. Attendance was in the order of 22 people which continues to confirm the quality of Joel’s presentations. During the technical session and social hour the role of camera-person fell to President Christine Kemp who did a marvelous job.

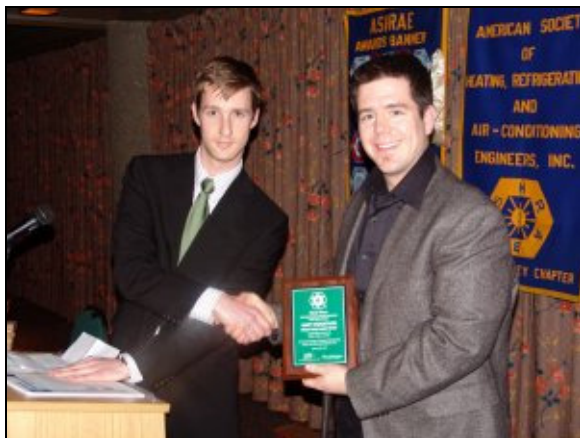
The business session started with President Christine Kemp introducing the Board of Governors and Executive, followed by Secretary Rod Potter who introduced the guests for the evening. Incoming Nominations Committee Chair Bob Kilpatrick thanked David Eastwood for his work as previous nominations chair (9 years in this position). He then went on to briefly describe the nominations process and called for nominations for Secretary and 3 Governor positions.

Jason DeSousa again stood to describe Joel Primeau’s tech session, and thanked him for his continued work. During the buffet dinner, Christine Kemp oversaw the raffle ticket sales for the Senators Game Ticket Giveaway Draw (courtesy Peter Nabi). The draw took place soon after dinner and it was won by Imad Abou-Falah of NRC. This draw earned \$225 for ASHRAE Research – always appreciated.

Student Activities Chair Matt Edmonds spoke about the recent Career Fair. There were 14 employer booths, and approximately 100 students attended the Fair over a five hour period. Matt explained that the committee is vibrant with greater interest being shown by Cegep, La Cité, Queens University, and Ottawa University. The 3<sup>rd</sup> place win for the Algonquin students in the Design Competition last year also helped. Photos from the Career Fair can be viewed here: [http://picasaweb.google.com/ashraeovc/20110308\\_Career\\_Fair#](http://picasaweb.google.com/ashraeovc/20110308_Career_Fair#)

CRC Planning Committee Co-Chair Dan Redmond brought us up-to-date with their progress, with meetings regularly on Fridays at Carleton University. He said volunteers are always welcome to aid in their task.

Peter Shaw-Wood (joint winner of 3<sup>rd</sup> place overall in last year’s Student Design Competition) oversaw the award of plaques to Matt Edmonds, Andrew Greenhalgh, Chris Frauley, and Barry Riddell (not present) for their hard work in mentoring the students.



Matt Edmonds receives his award from Peter Shaw-Wood



The three award winners receiving a round of applause for all their hard work

The evening program topic was **Net-Zero Buildings**, presented jointly by Michel Bernier - Professor, Ecole Polytechnique de Montreal; and Roland Charneux Eng., M.Eng., LEED AP, Executive Vice President at Pageau Morel. They spoke about a new Triplex Condominium that they had designed and was recently completed in Montreal:

Roland Charneaux of Pageau Morel spoke first:

- The Net-Zero project was the result of an RFP from CMHC.
- The RFP stipulated that the building must use standard and feasible technology, and be designed for living occupation by a 4 person family.
- Their proposal was chosen from the final 12 submitted, of which 3 were in Quebec.
- The building consists of a 3-storey condominium triplex located in Verdun, Montreal.
- Prime energy source is photovoltaic (PV) panels on the roof, connected to a Hydro Quebec meter that measures supply in both directions. There was a 50kW max. PV supply limitation stipulated by Hydro Quebec. The PV array consists of an angled arrangement covering most of the roof, and the area available was limited by the high density core location of the triplex.
- The design team was multi-disciplinary from the onset, and they followed the Four Rules of Good Sustainable Design: (1) Load Reduction; (2) System Efficiency; (3) Regenerative Systems; and (4) Renewable Resources.
- Insulation rates for the building are high, with R45 Walls, R70 Roof structure, and Low E krypton double glazing with intermediate film layer.
- Appliances are a major electrical load (about 1/3 of the entire demand) and they ensured that all appliances provided in the condos were Energy Star listed.
- High Efficiency lighting is incorporated and each condo has a master power cut-off switch at the exit door to isolate all small power to receptacles.

Michel Bernier of Ecole Polytechnic de Montreal continued the presentation:

- He spoke about HVAC Simulations, and described the additional green energy sources such as solar panels for preheating domestic hot water, geothermal heat pump system(s) for heating (COP 4)/cooling (COP 6), and grey water heat recovery which saves approximately 25% on the DHW load.
- The PV modules have a nominal efficiency of 14%, and with 98m<sup>2</sup> of panel, this is likely to generate 14,100 kWh/year, with a system efficiency of 75%.
- Simulations result in 9,997 kWh being supplied to the grid, and 9,972 kWh being drawn from the grid. The PV array is expected to provide 14,161 kWh per year, with about 1/3 of that used to run appliances.
- Each 2-bedroom condo is about 850 ft<sup>2</sup> in area, two of which have already sold at a \$350K price tag.

President Christine Kemp thanked both speakers for their entertaining presentation and gave each a small gift. The Meeting adjourned at about 20:40.



Roland Charneaux of Pageau Morel at the podium



President Christine Kemp thanked both speakers for their entertaining presentation and gave each a small gift

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)





## ASHRAE Society News

by Steven Moons  
2010-2011 OVC Governor

### User's Manual Provides Guidance on 2010 Energy Standard

ATLANTA – Detailed guidance on how to apply the latest ASHRAE/IES standard for the design of energy-efficient buildings is provided in a newly published user's manual.

The User's Manual to ANSI/ASHRAE/IES Standard 90.1-2010, *Energy Standard for Buildings Except Low-Rise Residential Buildings*, was published this week. The standard, which provides minimum requirements for the energy-efficient design of buildings except low-rise residential buildings, contains 109 addenda approved since the 2007 standard was published.

“The new User's Manual is a very useful resource because it helps guide practitioners in by explaining the intent of provisions in the standard and how they apply to buildings through not only written word but also illustrations and example problems,” Steve Skalko, chair of the Standard 90.1 committee, said. “The latest edition of the manual is especially valuable because it specifically identifies what changes have taken place since the 2007 edition and through use of calculations and examples tells how the new provisions apply.”

Specific examples of how the User's Manual assists users in regard to the 2010 standard include:

- Application of new requirements in the standard regarding data centers.
- Application of new requirements for building envelopes including vestibules, continuous air barriers, skylights, daylighting controls and the use of dynamic glazing.
- Explanation of new lighting power density requirements and application of revised lighting controls. In the standard, maximum allowed interior lighting power densities were lowered for most space types, additional occupant sensing controls and mandatory daylighting requirements are added for specific spaces and a new five-zone exterior lighting power density table has been added.
- Explanation of how to apply new HVAC requirements, including higher equipment efficiencies, energy recovery provisions in more applications, economizers required in more climates and smaller system sizes and more energy-conserving controls.
- Changes to modeling requirements (e.g. for U.S. Green Building Council LEED® certification) that were clarified and expanded.

Since being developed in response to the energy crisis in the 1970s, Standard 90.1 has become the basis for building codes, and the standard for building design and construction throughout the United States. The cost of the 90.1-2010 User's Manual is \$99 (\$84, members). To order, contact ASHRAE Customer Service at 1-800-527-4723 (United States and Canada) or 404-636-8400 (worldwide) or visit [www.ashrae.org/bookstore](http://www.ashrae.org/bookstore).

### User's Manual Provides Guidance on Ventilation Standard, New 'Must Have' Spreadsheet

ATLANTA –The newest guidance for using Standard 62.1-2010 includes a revised, user-friendly spreadsheet and examples, as well as the latest updates pertaining to the new version of the standard.

The 62.1 User's Manual provides explanatory material, detailed information, figures and examples to guide users in designing, installing and operating buildings in accordance with ANSI/ASHRAE Standard 62.1-2010, Ventilation for Acceptable Indoor Air Quality, which sets minimum ventilation rates and other requirements for commercial and institutional buildings.

Also highlighted is the application of useful tools used for compliance with Standard 62.1-2010, including a newly revised spreadsheet that assists in Ventilation Rate Procedure calculations. The spreadsheet provides calculations for the multiple spaces procedure and has been significantly improved, made more user friendly and now includes two example spreadsheets focusing on cooling and heating.

“The spreadsheet and new examples have been revised in response to user feedback and have much improved usability,” Roger Hedrick, chair of the Standard 62.1 committee, said. “The spreadsheet should significantly reduce the effort needed to perform the calculations needed for multizone recirculating systems. The spreadsheets are a must have for designers.”

The Manual encourages users of the standard to apply the principles of good indoor air quality and effective ventilation when designing buildings and building systems, and provides useful reference material to assist designers in efficiently completing a successful and compliant design.

The cost of the 62.1 User's Manual is \$75 (\$64 ASHRAE members). To order, contact ASHRAE Customer Service at 1-800-527-4723 (United States and Canada) or 404-636-8400 (worldwide), fax 404-321-5478, or visit [www.ashrae.org/bookstore](http://www.ashrae.org/bookstore).

### **ASHRAE Guideline Addresses Interactions Affecting Indoor Environmental Quality**

ATLANTA – ASHRAE has published a new guideline that provides guidance on achieving good indoor environments by considering the interactions of air quality and thermal conditions, as well as lighting and acoustics. Guideline 10 is especially important in the design of low-energy buildings in order to ensure full consideration of indoor environmental quality and its effects on occupants.

ASHRAE Guideline 10-2011, *Interactions Affecting the Achievement of Acceptable Indoor Environments*, calls attention to many interactions that designers might not have previously recognized or understood. The guideline contains an assembly of available knowledge on the complexity of the indoor environment and its impact on building occupants.

“The guideline summarizes what research and experience have taught us about the complex interplay of the wide range of factors that determine occupants’ reactions to the buildings they inhabit,” Hal Levin, chair of the committee writing the guideline, said.

Levin explains that the guideline is intended to help users understand and use existing documents that deal with indoor environments, including the ASHRAE standards related to energy, ventilation, indoor air quality and thermal conditions with a more complete understanding of their combined effects on occupants.

“It can provide assistance to building design professionals and building operators by making them aware of the major interactions that have the potential to impact the indoor environment,” he said. “We believe the guideline will help draw attention to the narrowly-defined scopes of the widely-used standards and the significance of combined or interactive effects in determining the acceptability of an indoor environment.”

The cost of Guideline 10-2011, *Interactions Affecting the Achievement of Acceptable Indoor Environments*, is \$54 (\$46, ASHRAE members). To order, contact ASHRAE Customer Service at 1-800-527-4723 (United States and Canada) or 404-636-8400 (worldwide), fax 404-321-5478, or visit [www.ashrae.org/bookstore](http://www.ashrae.org/bookstore).

### **Intensive ASHRAE Workshop Highlights Essentials of HVAC Design for High Performing Buildings**

ATLANTA—As the demand for high performing systems and buildings has risen, what is considered to be status quo in HVAC&R has changed. Whether you're an experienced engineer or new to the field, it's crucial to have a firm understanding of these new HVAC& essentials for the green building industry.

ASHRAE Learning Institute presents an intensive, three-day workshop focusing on both the fundamental and technical aspects of HVAC design in commercial buildings, providing practical strategies for HVAC designers and others involved in delivery of HVAC services. HVAC Design Essentials: Tools for High Performance Building Designers takes place at ASHRAE Headquarters in Atlanta, Ga.

The workshop addresses the skill set that will be required by designers of the future; techniques to interact effectively with all design partners in an integrated design team; the economics of sustainable buildings; and the skills needed to design high-performance buildings, to name just a few.

“HVAC Design Essentials is ideal for engineers looking to learn about the latest tools and technology in the high-performance building industry, but is also beneficial for those new to the field who want to give themselves an edge,” Filza Walters, professional development committee chair said. “Facilities managers involved in new construction or technicians who would like to gain design knowledge are also encouraged to attend.”

The course is led by ASHRAE members Julia Keen and Joel Primeau, both are licensed engineers and ASHRAE Certified High Performance Building Design Professionals. Keen is associate professor of architectural engineering and construction science at Kansas State University, Manhattan. Primeau is director of sustainable design at Genivar, in Ontario, Canada.

In addition to updates on the most cutting-edge green HVAC&R tools and technology, attendees receive a copy of Standard 189.1, Standard for the Design of High Performance Green Buildings Except Low Rise Residential, and the 189.1 User's Manual. Professional Development Hours and Continuing Education Units are also available.

Register early to save: Advance conference registration is \$1,189 (\$939 member price) and \$1,239 after April 15 (\$989 member price). A company discount is available for \$889 per person when three or more from the same employer enroll at the same time. More information can be found at [www.ashrae.org/hvacdesign](http://www.ashrae.org/hvacdesign).

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Committee  
Chair



## Membership

By Adam Moons

2010-2011 OVC Membership Promotion Chair

Greetings Everyone!

So we find ourselves finally seeing the weather make a shift. The winter, now falling behind us, did bring some positives. The Ottawa Valley Chapter has seen wonderful gains in membership, in addition to seeing a vibrant youth presence at the meetings. I would like to extend my thanks to all of you for your warmth and generosity welcoming young members. My hope is that all our new members will take their positive experiences back to friends and colleagues, and that increased support will be shown from their offices.

It is important that we now place an increased focus on retention. It has been wonderful seeing all the new members, but it is equally important for our current members to stay involved. If you haven't been out to meetings, now is a great time to change that!

I would also like to introduce and welcome the following new members:

Ms. Heather Knudsen

Mr. Greg Terry

Mr. Dan Angers

Looking forward to seeing you at the next ASHRAE event!

Adam Moons

Membership Chairperson / OVC

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Past President



## TECHNICAL SESSION

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

When: April 19<sup>th</sup>, 2011 (Before the monthly meeting)

What time: 16:30 to 17:30

Who is invited: Everyone

Now that we have completed the basic load calculation, our next technical session will be Psychrometrics.

Don't miss out on this great opportunity to get a psychrometrics tour, and stay to attend our monthly meeting.

Joel Primeau

---

Swell Guy



## ASHRAE Golf Tournament

by Andrew Douma (Photo my not be accurate)

**April Showers bring ... the ASHRAE Golf Tournament!**

**The 2011 ASHRAE Golf Tournament is scheduled for Thursday June 9<sup>th</sup>, 2011 at the Loch March Golf & Country Club.**

Registration forms with full tournament details will be sent to all of last year's Registered Participants. Spots for returning teams will be held until April 30<sup>th</sup>, 2011, after which time the field will be opened up to new teams. Registration forms will be made available at the April Chapter Meeting. Registrations will only be confirmed upon return of the completed Registration form and payment.

The registration form also extends an invitation to the Membership to become involved as Hole Sponsors. Our Hole Sponsorship for ASHRAE Research Program has been wonderfully supported by our Chapter Membership in the past and continued support is appreciated for this year's event. As we are all aware the beneficiary of this tournament is ASHRAE Research and accordingly the more successful we are in this effort the more we will gain as a community. As always we expect a quick sellout so don't delay in returning your responses and getting your game in shape.

Should you have any questions about the Tournament or Hole Sponsorship please contact Andrew Douma at [andrewd@totalhvac.com](mailto:andrewd@totalhvac.com) or by phone at 613.723.4611.

Sincerely,  
Your 2011 ASHRAE Golf Tournament Organizing Committee





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

by Matthew Edmonds  
2010-2011 Student Activities Chair

On March 8, 2011, we held the annual ASHRAE Student Career Fair on the Algonquin College Campus. We had 14 employers purchase booths, and well over 100 eager students with CVs in hand come through the Salon A doors. Our student count is actually inaccurate as many students arrived in large groups and managed to evade our greeters and the sign-in sheet. We did have students from Algonquin College, Carleton University, Queen's University, La Cite Collegiale, and CEGEP de l'Outaouais. Overall we have had a great response from all participants and Algonquin College was absolutely ecstatic with the turnout and is interested in more involvement from our industry and ASHRAE in general.

Thank you to the following companies that supported this year's career fair:

- Dilfo Mechanical
- Wood Banani Boutillette Parizeau
- Direct Energy
- Engineered Air
- The Master Group
- R.J. McKee Engineering
- Regulvar Canada
- Nortec
- Trane
- Siemens
- Walmar
- Lar-Mex
- Longhill Energy
- Total HVAC

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, and include you in our list of 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!

A big thank you goes out to our March student meal sponsors:

Glenn MacLean – 3 Student Meals  
Robert Cavan– 1 Student Meal  
Chris Harrison – 1 Student Meal  
Matthew Edmonds – 2 Student Meals  
Marc Parent – 2 Student Meals  
David Gale – 1 Student Meal  
Bob Kilpatrick – 1 Student Meal  
Joel Primeau – 2 Student Meals  
Mike Fakhouri – 1 Student Meal  
Gemma Kerr – 1 Student Meal

Best Regards,

Matthew Edmonds  
Student Activities Chair

**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>

National Sales Manager. Glenn MacLean was called on to fill the Manager's role, and the team again remained unchanged until just 2 years ago, but did relocate to a new office building at 20 Gurdwara in 2005. The new venue was bigger and a bit brighter, and helped as the office continued to grow.

In June of 2008 the most recent addition to the office transferred in, in another pickup from the design group in Calgary. **Matt Laframboise** originally joined Engineered Air in November 2001 and worked in production and design with the company before transferring to the sales group.

In that first year (1985) the total sales for the office was that one order for the I.G.A in Brockville. For the sales year that just ended in August of 2010, sales volume has increased to just over \$11.5 million and the Sudbury region has been added to the Ottawa territory. Dennis Capstick retired 3 years ago, after over 30 years with the company, and Brian Neufeld is now General Manager in Calgary. Let's see what the next 25 years brings...



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## TEGA Awards

By Georges Maamari  
2010-2011 OVC Committee Chair

The TEGA committee is pleased to present the Technology awards to worthy recipients of our chapter in recognition of their significant contributions in the application of ASHRAE based technologies in the design of their projects.

These awards are presented annually, first at the chapter level, and later at the regional level, to recognize the achievements of chapter members who design or conceive projects using proven innovative technologies, where effective energy use is achieved, or where an improved indoor environment is provided.

Last year the Ottawa Valley Chapter was very well represented at the regional competition. This year, we have two winners at the chapter level.

### 1st Place New Residential

Andrew Macdonald – NORR

For the redevelopment of Beaver Barracks on 424 Metcalfe.

Design Highlights: The key features to the redevelopment included:

- Energy efficient lighting (30% of the MNECB values),
- A central energy recovery ventilator,
- High performance building envelope (R30 roof and R20 walls),
- Low flow faucets reducing domestic hot water usage, and
- Water-source heat pump system in the building allowing recovery of heat during times of coincident heating and cooling demand, and allowing lower water temperatures for distribution to the suites
- A central ground source heat pump plant to utilize geothermal energy for space heating and domestic hot water preheating.

### 1st Place Existing Commercial

Kashyap Desai, Stantec

For the Yardmen Arena chiller plant upgrade in Belleville

Design Highlights: The key features/modifications for the Chiller plant upgrade included:

- One (1) 120 Tons High Efficiency air cooled chiller (In place of an existing 270 Tons Chiller)
- Four (4) Calmac Ice Storage Tanks
- Three new (3) VFD pumps.
- New 2-way pressure independent Control Valves in the chilled water distribution
- New piping, valves and accessories for a series, parallel and combination chiller plant operation.
- Integrated chiller plant master EMCS including control valves, metering, control devices etc.
- Demand response arrangement with a 3.5 cents/kWh OFF PEAK rate.

Congratulations to all the winners and participants. All of these projects will be moving on to the Regional competition where they will be competing against other chapters in the Region II district. Let's wish them all good luck!

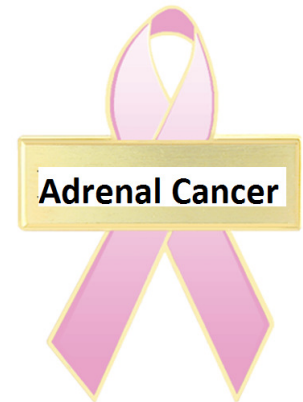
Regards,  
Georges Maamari  
TEGA Chair





## Thank you ASHRAE

By Patrick Albert  
2010-2011 OVC Governor



It is with great pleasure that we write to thank ASHRAE and its members for their support and contribution during this trying time. We would like to extend our most sincere gratitude to all those who donated and supported charity funds to contribute towards our fight against cancer.

We are living in an era where this disease is affecting more and more people. It does not discriminate against gender, race, religion, age, financial or social status. Support plays a major role in successful outcomes for those faced with this challenge, and we are so privileged to have you embarking on this journey with us.

By sharing your time, energy, and thoughts you have also promoted awareness and further supported the drive to conquer cancer. Again, we thank you from the bottom of our hearts for everything you have contributed. ASHRAE and its members have helped to make this experience a little better than it otherwise would have been.

Sincerely,

Kristin and Patrick Albert



## 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 April's Meeting are:

#### Total HVAC







## Ground Source Heat Pump Web Broadcast

by Georges Maamari  
2010-2011 OVC Governor



### Ground Source Heat Pump Systems: Putting the Earth to Work for You

**April 21, 2011**  
**1:00 – 4:00 P.M. EDT**

Hear from leading experts on how HVAC system and ground characteristics affect ground heat exchanger design, how to enhance ground source heating design system efficiency, and how to avoid design and operations pitfalls. Get the solutions to these topics and more by participating in this free webcast sponsored by ClimateMaster, Mammoth, Taco, the International Ground Source Heat Pump Association, and the ASHRAE Foundation.

This free webcast is brought to you by the ASHRAE Chapter Technology Transfer Committee.

#### How to Participate

- You may host a webcast site for your colleagues.
- You may register to view with others at a site near you.
- You may register to view the Webcast on your PC.

#### PDH Credits

Three (3) Professional Development Hours or three (3) AIA Learning Units may be awarded to viewers who complete the "Participant Reaction Form" online by May 5, 2011.

About the Presenters (Visit [www.ashrae.org/GHPWebcast](http://www.ashrae.org/GHPWebcast) for complete details)

- Lynn G. Bellenger, P.E.

ASHRAE President 2010-11

Partner | Pathfinder Engineers & Architects | Rochester, NY

- Kirk Mescher, P.E., LEED® AP

Principal | CM Engineering, Inc. | Columbia, MO

- Mick Schwedler, P.E., LEED® AP

Manager, Applications Engineering | Trane Company | La Crosse, WI

- Jeff Spitler, Ph.D., P.E.

Professor | Oklahoma State University | Stillwater, OK

Registration

Online registration begins March 21, 2011 at [www.ashrae.org/GHPWebcast](http://www.ashrae.org/GHPWebcast). There is no fee for registration. If you have questions, call 678-539-1200 or email [ashrae-webcast@ashrae.org](mailto:ashrae-webcast@ashrae.org). □

Treasurer



## ASHRAE Facebook page

by Donald Weekes  
2010-2011 OVC Treasurer

The Ottawa Valley Chapter is investigating the possibility of setting up a Facebook page. We are searching for some individuals that would be interested in maintaining such a page. If you are interested in helping with this effort, please contact Don Weekes at [don.weekes@inairenvironmental.ca](mailto:don.weekes@inairenvironmental.ca) Thanks!

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Committee  
Chair



## Business Card Ads

by Rod Lancefield

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