



Capital **Ottawa Valley Chapter** 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

2011 - 2012

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Communiqué

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Publicity

Christine Kemp

Don Weekes

Rod Lancefield

Table Top

Abbey Saunders

Attendance

Cathy Godin

Greeter

Mike Swayne

Roster

Georges Maamari

Webmaster

Roderic Potter

PAOE

Donald Weekes

Business Cards

Rod Lancefield

Nominations

Robert Kilpatrick

CRC Action

Donald Weekes

Roderic Potter

DATE: Tuesday, May 15, 2012.

Social: 17:30 Dinner: 18:30 Program: 20:00

LOCATION: Travelodge Ottawa Hotel & Conference Centre, 1376 Carling Avenue, Ottawa, Ont., 613-722-7600

THEME: History

PROGRAM: People Skills and Leadership

SPEAKER: Benno Novak, P.Eng., MCP., Dip.BA

OVERVIEW: Design professionals, whether they be Engineers, Architects or other Designers, almost always have to deal with others to secure their work and to complete their assignments. This interaction may take the form of managing a team or being part of a team. There will be many situations where awareness and skills not learned in our technical training will be paramount. This session can provide a basic understanding of skills needed to deal with people in a collegial environment, while keeping quality and financial objectives in view. To earn their respect and trust, a leader needs to successfully motivate a team of knowledge workers.

A potent quote from an old issue of the Harvard Business Review illustrates the point and the fact that this challenge is not new: "We are in the realm of the invisible. We have to manage what we can't see. We are in a knowledge economy, but some of our attitudes and methods may still be stuck in the industrial era. Our core assets are not in buildings and machinery, but in the intelligence, skills, experience and commitment of employees, who are all knowledge workers".

BIO: Ben is now a founding partner in DFS – Design Firm Seminars. He has a long consulting career and is a certified FIDIC (International Federation of Consulting Engineers) trainer in management training. He is a former ACEC Chair, and is active on the FIDIC Young Professionals Management Training Program. As an accredited Peer Reviewer for the American Consulting Engineers Council, he examined the operations of numerous consulting firms.



His principal consulting career was with Stantec in Edmonton, becoming Vice-President of Prairie and Northern operations, before being named Senior Vice-President. He participated in, and led a number of acquisition and joint venture initiatives, and sat on the first Board of Directors when Stantec became a public company. Now an Ottawa resident he is a graduate of McGill University, Montreal, in Civil Engineering and has a Diploma in Business Administration. He also holds a master's degree in City Planning from the University of Manitoba, Winnipeg, Canada.

May Meeting Menu-VIP

Assorted Rolls and Butter/Crisp Greens with Mandarin Orange and Cherry Tomatoes, Raspberry Vinaigrette/Prime Rib with Wine Jus/Served with Roasted Potatoes and Seasonal Vegetables/New York Style Cheese Cake with Berry Coulis/Coffee & Tea



President's Message

Stephen Lynch, P.Eng.
 Chapter President 2011-2012
 Direct Energy Business Services Limited
 E-mail: stephen.lynch@directenergy.com

Another year of ASHRAE Ottawa Valley Chapter is coming to an end and a new leadership is about to begin. I vividly remember my conversation with Patrick St. Onge asking me if I would like to take on the Treasurer position and make the 5 year commitment to the Chapter. I am honored to have been asked and I have thoroughly enjoyed my experience.

I believe I have stayed true to my theme this year: The Year of the Volunteer. Without the contributions of over 35 volunteers, we would not have the active chapter we have today. I would like to thank the Executive team, the Board of Governors, the Committee Chairs and the numerous other volunteers that ensure that our events go smoothly and that we have a robust program for the year. In particular I would like to point out the following volunteers who were responsible for organizing some of our more popular events:

- Joel Primeau: Technical Sessions (A special thanks to Frank Bann and Steve Moons who filled in when Joel was unavailable.)
- Andrew Douma: Golf Tournament (A special thanks to Posy, Cathy, Cynthia and Patrick)
- Steve Moons: Bowling
- Chris Healey: Curling Bonspiel
- Rod Potter: Organizing the Program meeting and ensuring our On-Line program worked
- Georges Maamari: Seminars
- Dan Redmond and Darryl Boyce: Chapter Regional Conference (A special thanks to all committee volunteers)
- Laura Creswell: A very active and involved student volunteer
- Patrick Albert: The guy who kept things moving

I apologize if I missed anyone and extend my appreciation.

I would also like to thank Direct Energy Business Services Limited for their support by allowing me the time needed to put towards this commitment.

On a Health and Safety note; Stress is becoming, if it not already is, one of the largest contributions to an unhealthy environment. It is a part of our daily lives and can lead to serious health concerns.

Here are some good resources on Stress and understanding it:

- http://www.helpguide.org/mental/stress_signs.htm
- <http://www.hc-sc.gc.ca/hl-vs/iyh-vsv/life-vie/stress-eng.php>
- http://www.psychologyfoundation.org/pdf/publications/managing_to_manage.pdf

May meeting's theme is History. I would like to introduce our new History Committee Chair, Aaron Dobson. Aaron has some big shoes to fill after Rod Potter won the Lou Flagg award for his efforts as the previous chair. I am confident Aaron will bring a new dynamic to the history keeping of our chapter.

In wrapping up my final communiqué article, I would like to wish all the best to the new Executive and Board of Governors. The Chapter is in good hands with Don Weekes and his team at the wheel.

See you all May 15th at the Travelodge. Please remember, we are now in the conference room down stairs.

Stephen Lynch, P.Eng.

2011 – 2012 ASHRAE OVC, President

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 <p>AMERESCO Green • Clean • Sustainable</p> <p>ROY SAMHABER, P. ENG. senior project manager</p> <p>P: 613 224 7500 x6158 P: 888 283 7267 F: 613 224 3726 rsamhaber@ameresco.com ameresco.ca Ameresco Canada Inc. 106 Colonnade Rd N, Ste 200 Ottawa, ON K2E 7L6</p>	 <p>BAXTEC Mechanical Services</p> <p>Your energy savings partner</p> <p>MARK CSIFFARY P.ENG. President • mark@baxtec.com</p> <p>Office: 613-738-7450 Fax: 613-738-2973 Cell: 613-229-8277 www.baxtec.com 29-2450 Lancaster Rd., Ottawa ON K1B 5N3</p> <p>A member of </p>	 <p>Belnor Engineering Inc. innovation control solutions</p> <p>1 Royal Gate Boulevard, Unit 3 Vaughan, ON L4L 8Z7 ☎ 905-254-6372 ☎ 905-254-6432</p> <p>Proven Safety for Laboratory Standards</p> <p>Guy Mongeon Sales www.belnor.com</p> <p>Dave Fanset Project Coordinator</p> <p>PHOENIX STROBIC PARAGON MAFNA PLASTEC</p> <p>dfanset@belnor.com — Healthcare Solutions — gmongeon@belnor.com</p> <p>1501 Carling Ave., Suite 8, Ottawa, ON, K1Z 7M1 ☎ 613-729-6660 ☎ 613-729-2690</p>
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What You Missed—April

Steven Moons

2011-2012 OVC Secretary

The meeting took place at the Travelodge Hotel and Conference Center on Carling Avenue in Ottawa, in the Main Ballroom on the lower level. The meeting was called to order at 6:40pm, and attendees were seated for dinner.

Frank Bann presented Joel Primeau's continuing series of HVAC 101 presentations, this month's presentation centering on the design of air systems part 2. Joel's series will continue to work through more fundamental engineering basics as the year goes on.

The business session started with President Stephen Lynch calling the meeting to order, and spoke on the theme of ASHRAE Research. He mentioned that all research dollars from Canada stay in Canada, and the OVC is a recipient of a lot of the research money. Stephen then welcomed the members, and introduced the Board of Governors and the Executive.

Adam Moons introduced this month's new members, Mr. Steve Mackey Mr. Richard Cameron Mr. Peter Keays and Mr. Matthew Obach. Secretary Steve Moons then introduced the evening's guests. Governor Chris Fudge presented this year's CTTC awards. Winners at the chapter level were chosen by the panel of Bob Kilpatrick, Rod Potter, Paul Baker and Don Weeks. Winners included:

Commercial New: Frank Bann of Goodkey Weedmark and Associates Ltd. The City of Ottawa – Central Archives and Public Materials Centre

Existing: Kashyap Desai. MRCL 130 Albert Variable Refrigerant Flow (VRF) Heating and Cooling System

Educational New: Robert Lefebvre of Goodkey Weedmark and Associates Ltd. Ashbury College Boys' Residence

Other Institutional Existing: Kashyap Desai, CMCC HVAC Controls and EMCS

Industrial Facilities Process Existing: Kashyap Desai, CMCC 3000 Ton +/- Cooling/Heating Plant Upgrade

Public Assembly Existing: Kashyap Desai, Rideau Center 1700 Tons +/- HR Cooling/Heating Plant Upgrade

Residential Single Family Home Existing: Geoffrey Russell Lynch of Dessau Inc. Bath Institution

Last year's Regional Level winners included:

Residential Building Andrew MacDonald, NORR Ltd., 424 Metcalf Redevelopment

New Institutional Building Patrick St-Onge, Wood Banani Bouthillette Parizeau Inc., Gatineau Fire Stn. No. 5

President Stephen Lynch thanked Chris Fudge for his efforts on the technology awards. He then introduced the table tops for the evening. John Kirow from Thermal Care spoke about Turbocor compressor chillers and fluid cooler/pump packages represented by Total HVAC, and Andrew Klassen from Trane discussed Scott Springfield custom air handling units.

President Stephen Lynch asked Nominations chair Bob Kilpatrick to discuss nominations for the upcoming year. Bob stated that this year's nominees for the executive include Don Weeks for President, Rod Potter for President-Elect, Steve Moons for Treasurer, and Georges Maamari for Secretary. The new board of governors nominated were Paul Baker (returning), Chris Fudge (returning), Abbey Saunders (returning), and Pat Albert and Dan Redmond as new governors. Mike Swayne motioned that the nominees be accepted, and nominations closed. Paul Seguin seconded the motion, and the nominations were closed. Installation of the new members will be done at the May meeting.



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President Stephen Lynch discussed the upcoming CRC, and asked for volunteers. He referred people to CRC co-chair Dan Redmond for more details. Andrew Douma discussed the upcoming ASHRAE Golf Tournament on June 7th. He mentioned that portions of the proceeds go to ASHRAE Research. All foursomes from last year are being held until May 1st, at which point they will be opened up to whomever requests them. He stated that he is still looking for some additional sponsors for the event. Stephen Lynch discussed the ASHRAE 62.1 seminar being held on Apr. 18th, as well as the free webinar that ASHRAE is hosting on DOAS systems. Dinner began at 7:03, and Past president Cathy Godin circled the room for a 50/50 draw benefitting ASHRAE Research.

After dinner, Past President Cathy Godin drew the winner of the 50/50, Pierre Richer from Dilfo. President Stephen Lynch reminded the attendees to fill out the speaker review forms, and then introduced the evening's speaker.

The speaker of the evening was Dan Int-Hout III, an ASHRAE distinguished lecturer, spoke to methods of effective room air distribution. His presentation was very well received, and peppered with jokes which made a potentially dry topic very enjoyable.

Dan began with describing where we are today and the discrepancy in expectations of air distribution. Dan's presentation comprised of LEED issues and updates, the discussion of perimeter issues, acoustics, thermal comfort, IAQ / Standard 62.1, and air system selection. The challenge with LEED is to improve by 30% the base systems of 90.1. The Base System is considered VAV with overhead distribution (well mixed). To improve on this, options include underfloor air distribution (UFAD), displacement ventilation and chilled ceilings & beams. Energy calculations are readily available for VAV, but not necessarily the other options. ASHRAE's thermal comfort standard allows for max. 5F vertical temperature stratification. The economics of comfort show a rough equivalence of energy, taxes, maintenance and original construction for life-cycle cost breakdown. However, when compared to the inclusion of people (salaries) of the building, these four areas shrink to only approx. 5% of the costs. The takeaway is that the companies leasing the space are far more interested in occupant comfort to maximize productivity than they are by first cost or energy costs.

Acoustics in the space are moving back to a dBA rating from NC ratings. Sound specifications are recommended to be based on clearly stated assumptions and should reflect the real project needs, not any manufacturer's data.

Dan then went through common methods of air distribution including overhead well mixed systems. Care should be taken to select diffusers in this approach with appropriate throw at max. and min. airflows. Noise and dirt can be good, as it proves the system is working and mixing the air. He emphasized that part of balancing MUST include the adjustment of diffusers to provide proper distribution. The max. delta T for effective mixing using overhead heating is 15F, ie. 90F discharge, so Dan emphasized no to provide overheated air. Pros of this system include well documented energy calculation programs, well understood construction details. Cons are it's difficulty to guarantee 30% more efficiency than 90.1

Underfloor Air Distribution utilizes raised floors, and provides a lot of flexibility for reworking the space. Other pros include low sound, relatively simple controls, and local occupant control. Cons include no energy modeling programs, and the requirement for careful building construction to avoid leakage and consideration of high humidity climates. Displacement Ventilation pros include possibly less cooling energy requirements, longer free cooling period, better air quality / reduced OA requirements. Cons require >10' ceilings, a draft risk near units, and a separate heating system if the exterior walls are not well insulated. Chilled Beam pros offer potential energy savings, low air velocities, silent operation, radically smaller ductwork and simple controls. Cons include an excellent building curtain wall to control condensation, and a higher first equipment and installation cost.

President Stephen Lynch thanked Dan for his presentation and gave him a small gift, and the meeting adjourned 9:00pm.



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Chapter Nominations Announcement

Bob Kilpatrick

Nominations Committee Chair 2011-2012

National Research Council Canada

E-mail: robert.kilpatrick@nrc-cnrc.gc.ca

Hello everyone,

On behalf of the 2012/2013 Nominating Committee, I am pleased to announce the slate that will provide leadership through the upcoming chapter year in holding office as the Chapter Executive and the Board of Governors of the Ottawa Valley Chapter:

Executive

President **Don Weekes**

President-Elect **Rod Potter**

Treasurer **Steve Moons**

Secretary **Georges Maamari**

Past-President **Stephen Lynch**

Board of Governors

Pat Albert

Paul Baker

Chris Fudge

Dan Redmond

Abbey Saunders

I'm sure you will join with me in offering congratulations to this group and will continue to provide your full support to them and the activities of the Chapter throughout the year.

The official installation of the officers and governors will take place at the May Chapter meeting.

I would also like to acknowledge the efforts of the members of the Nominating Committee for their invaluable input and discussion over the last short while in reaching these important decisions that impact the future and longevity of our Chapter:

Chris Frauley

Cathy Godin

Steve Moons

Rod Potter

Joel Primeau

Sincerely,

Bob Kilpatrick

Committee
Chair



Student Activities

by Matthew Edmonds

2011-2012 Student Activities Chair

Another year in the bag, and what a successful one it has been! My thanks go out again to all our wonderful and supportive members who are the real reason why our student activities have been so successful. A big thanks also goes out to all the students from Algonquin College, Carleton University, and Queen's University, who all made very strong contributions to the chapter this year.

We have an exciting program already in the works for next year, but you are going to have to wait to hear all about that! In the meantime have a fantastic summer, and we'll see you in the fall.

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 (20-50-50) – Don't know what it is? Every Student Should! <http://www.ashrae.org/students/page/703>

Past President



CRC Sponsorship Opportunities

Joel Primeau

OVC Past-President (1999-2000)

Our thanks are extended to the following, who have already signed on as CRC sponsors:

Master Group (Gold)	HTS Engineering (Silver x 2)	Engineered Air (Silver)	Direct Energy (Silver)
Dilfo Mechanical (Bronze)	Primeau Consulting (Bronze)		

There are many great sponsorship opportunities left: remember it's first come, first serve.

The complete list of CRC Sponsorship Opportunities can be seen later in the Communique.



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Danny Dillon, OVC
President



Stephen Lynch, B.Eng./EIT
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Committee
Chair



Membership Update...

Adam Moons

Membership Committee Chair 2011-2012

Walmart Ventilation Products

E-mail: adam@walmart.net

Greetings Everyone!

The YEA leadership weekend was a wonderful, informative venture. My sincere thanks to the OVC for your support in making it possible for Matt and I to attend. It is always great to find new ways to advance the growth and value of our Chapter. To that end, please remember that I am always available for your thoughts or questions on this matter.

This month will see us undertake what we feel is an important action. We will be consulting with many of those in our HVAC community to get your thoughts and insights into the status of our Chapter. I thank you in advance for your time with this process.

As we come into the final stretch of the ASHRAE OVC year, please remember to check in on the status of your membership.

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

Mr. Richard Leduc

Ms. Brenda Cleary

Mr. D. B. Bell

Mr. Andrew Stevenson

Dr. Wahiba Yaici

Looking forward to seeing you at the next ASHRAE event!

Adam Moons, Membership Chairperson / OVC

Committee
Chair



ASHRAE Golf Tournament

Andrew Douma

Special Events Committee Co-Chair 2011-2012

Total HVAC

E-mail: andrewd@totalhvac.com

Is your game rounding into form for the ASHRAE Golf Tournament?

The 2012 ASHRAE Golf Tournament is scheduled for Thursday June 7th, 2012 at the Loch March Golf & Country Club.

As usual the ASHRAE Golf Tournament is a sell out as all available foursomes have been claimed. Thank you very much to those who continue to support this tournament. A waiting list is currently being formed in case any spots suddenly open up, please contact us to have your name added to the waiting list.

While the golfing portion of the event is sold out, there are still opportunities to support the tournament through sponsorship for the low price of \$200. The 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

Should you have any questions about the Tournament or Hole Sponsorship please contact Andrew Douma at:

andrewd@totalhvac.com or by phone at 613.723.4611.

Sincerely, Your 2012 ASHRAE Golf Tournament Organizing Committee

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Past President



Research Promotion Campaign

Christine Kemp

Chapter President 2010-2011
Awards Committee Chair 2011-2012
Publicity Committee Co-Chair 2011-2012
Research Promotion Committee Chair 2011-2012
Walmar Ventilation Products
E-mail: christine@walmar.net



Congratulations to Pierre Richer from Dilfo Mechanical! Pierre won our 50/50 draw at the April meeting. He went home with \$215.00 and of course that means we raised another \$215.00 for ASHRAE Research. Thanks to all of you who participate.

It is now getting down to the wire. My deadline to raise funds for this year's campaign is JUNE 30th. Many of you as individuals or organizations have already donated and I really appreciate that. If you haven't yet and would like to, please see information below. Every little bit helps to get me and our chapter closer to our goal.

It is easy to donate to ASHRAE Research.

You can go online to <https://xp20.ashrae.org/secure/researchpromotion/rp.html> (be sure to select ASHRAE Research CANADA and specify your Chapter and – Ottawa Valley Chapter)

If you prefer, you can make a cheque payable to "ASHRAE Research" and give it to me, Christine Kemp, Research Promotion Chair 2011/2012. (send to 24 Gurdwara Road, Nepean, Ontario K2E 8B5)



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Table-Top Displays

Abbey Saunders

Governor 2011-2012

Table Top Display Committee Chair 2011-2012

National Research Council Canada

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What better way to display a new product, existing line, or share great ideas than to have a table-top display at our local OVC ASHRAE meetings? The OVC meetings provide a captive audience in the industry and exposure to 50+ people.

What you missed, table-tops featured at the April meeting:



Trane was pleased to feature Scott Springfield Custom Air Handlers. Scott Springfield Custom Air Handlers offer a variety of customizable features which include: multiple fan bundles, fully packaged controls, numerous construction materials including aluminum and stainless steel, as well as various heat recovery technologies such as wheels, plates and heat pipes.

Featured table-tops at the May meeting are detailed below:



In honor of our Past-President's meeting the ASHRAE OVC is happy to display our history memorabilia. Drop by to check out how our ASHRAE members have changed over the years.



Longhill Energy is pleased to present Compax Modular Chillers. Manufactured in Fergus, Ontario, Canada the Compax modular chiller combines small size with high efficiencies and elevated supply water temperatures to 140 F. Units are available for geothermal operation as well as reversing heat pump applications. Designed to fit through a standard door or in an elevator, the 5 through 30 ton modules can be connected with field or factory provided headers for larger applications. Integral controls offer equal run time operation with standalone controls or integration with BAS systems. Individual units can be serviced through the front only meaning that they can be mounted within 1" of each other. Each unit can be serviced while other modules are operational. For selection program and application information visit www.compaxchiller.com.

Remember to drop by and check them out.

With the season coming to an end, I would like to extend a thank-you to everyone for their continued support in our ASHRAE Chapter.



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PRESIDENTIAL AWARD OF EXCELLENCE

Donald Weekes

OVC President-Elect (2011-2012)

Hi, all!

The Chairs of the OVC's Committees have been very busy this year, and they have found time to document what they are doing by submitting the PAOE points to the President-Elect (that would be me) over the past months. I want to thank each Committee Chair for their help this year with the submission of PAOE points. Because of their efforts, OVC is currently in third place in the Region! See the chart below for the actual totals for each Chapter.

As ASHRAE President Jarnigan stated at the beginning of his term: 'ASHRAE chapters are the backbone of this Society and play a central role in helping the Society achieve its goals. Through our collective efforts, ASHRAE chapters are a vital force in the HVAC&R community and a resource for the global community.' The PAOE program highlights all that the Chapter has done in the past year to help all of us to achieve our goals.

There are six categories included in this year's PAOE: Chapter Operations, Chapter Technology Transfer, Historical, Membership Promotion, Research Promotion, and Student Activities. To achieve PAOE, the chapter must earn the minimum points in four of the following five categories: Chapter Operations, Chapter Technology Transfer, Membership Promotion, Research Promotion, and Student Activities.

Here are the current PAOE Regional totals as of April 30th, 2012:

REGION II									
2011-2012 Presidential Award of Excellence									
<i>*Minimum and PAR points indicated are for 2011-2012.</i>									
Chapter #	Chapter Name	Chapter Members	Membership Promotion Points *Minimum = 500	Student Activities Points *Minimum = 300 PAR = 500	Research Promotion Points *Minimum = 800	Historical Points *Minimum = 100 PAR = 300	Chapter Operations Points *Minimum = 300 PAR = 600	Chapter Technology Transfer Points *Minimum = 450	Chapter PAOE Point Totals
13	Quebec	232	250	0	725	0	1530	750	3255
14	Montreal	510	1150	1505	605	275	1155	1650	6340
15	Ottawa Valley	382	725	1025	1060	350	870	2275	6305
16	Toronto	1047	1000	1910	655	450	1960	1775	7750
37	Hamilton	222	95	425	405	450	815	750	2940
100	Halifax	157	475	382	565	175	1115	800	3512
116	London	115	955	610	570	325	915	725	4100
117	NB/PEI	144	945	680	260	300	1170	575	3930
141	Windsor	48	0	1090	363	0	0	300	1753

As you can see, OVC has reached 6305 PAOE points to date, placing our Chapter as third in the region behind Toronto and Montreal. I am hopeful that we can reach 7000 PAOE points by the deadline of June 30th, 2012.

When you see a Committee Chair, please thank them for all of their efforts, including PAOE Points submission.



ASHRAE Society News

Peter Paciorenk

Governor 2011-2012

Alliance Engineering

E-mail: peter@allianceengineering.ca



May news from ASHRAE Society

ASHRAE Funds 22 Undergraduate Projects; Creation of “Shack” to Study Energy Efficiency

ATLANTA – Design and construction of a “shack” to demonstrate renewable and HVAC technologies, including solar thermal heating, photovoltaic power generation, high efficiency and green insulation options and wood pellet stoves, is being developed by undergraduate students in an ASHRAE Undergraduate Senior Project Grant.

This year, 22 schools from around the world were awarded grants. The grants, totaling some \$100,000, are awarded by ASHRAE to colleges and universities worldwide to promote the study and teaching of HVAC&R, encouraging senior undergraduate students to pursue related careers.

The grants are used to design and construct projects, such as Minnesota State University – Mankato’s proposal to design and construct a renewable and HVAC technologies test-bed “shack.”

“In the spirit of the Solar Decathlon and the movement toward ‘tiny homes,’ this project aims to design and build a structure of some 24 square feet that can be used to demonstrate renewable and HVAC technologies,” Patrick Tebbe, faculty advisor at Minnesota State University – Mankato, said. “The ‘shack’ will be designed to accommodate a range of technologies for demonstration and testing in the classroom and research projects.”

Given the university is located in the heart of ice fishing territory, the shack design will be loosely based on typical ice fishing huts or shacks. The inclusion of ice fishing creates an immediate engagement for both students and the public, according to Tebbe. He said the students hope this will generate interest in energy efficiency and sustainable design topics beyond upper level engineering courses. The shack also will be portable (most likely constructed on a sled) so it could be moved to test sites, high schools, open houses, etc., allowing for greater demonstration. It also could be adapted for summer applications.

The project will incorporate a flat plate solar collector to supplement interior heating, testing of various wood and pellet fueled stoves and weather stations from previous solar research. The construction materials likely will be supplemented with recycled and reused materials found locally.

Other ASHRAE grant recipients are:

- Purdue University – Calumet (Hammond, Ind.) – was deemed the top grant award winner for its project, Refrigeration and Heat Pump Teaching System. Two students from the university are invited to present their project as part of the Student Program at the 2013 ASHRAE Winter Conference in Dallas
- American University of Beirut (Lebanon) – Test and Optimize a Zonal Air Distribution System to Inactivate Airborne Microorganisms using Upper-Room Ultraviolet Germicidal Irradiation
- Carleton University (Ottawa, Ontario, Canada) – Measurement of Indoor Air/Environmental Quality in Arctic Housing and University Campus Buildings
- North Carolina A& T State University (Greensboro, N.C.) – Impacts of Air Filters on Energy Consumption in Typical HVAC Systems
- Sinclair Community College (Dayton, Ohio) – Primary – Secondary Hot Water and Chilled Water System Design and Installation
- Transylvania University of Brasov – Testing Laboratory Using Renewable Sources for Radiant vs. Convective Heating and Cooling
- Universidad Pontificia Bolivariana (Colombia, South America) – Clima Emulator Using Chilled Water HVAC System as Energy Sourced
- Universiti Teknologi Malaysia (Johor) – Effect of Ejector Geometric Parameter on the Unitary Air Conditioner as an Expansion Device



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- University of Alaska Anchorage – Air Duct Simulator
- University of Alberta (Edmonton, Canada) – Undergraduate Boiler Performance Laboratory
- University of Urbana-Champaign (Illinois) – Design and Construction of an Energy Recovery Ventilation Demonstration Unit Using Heat Pump for Laboratory Use
- University of Indonesia (Kampus UI Depok) – Development of Smoke Venting Demonstration Apparatus
- University of Lagos (Nigeria) – Design and Fabrication of a Biogas-Powered Water Refrigeration Heating System
- University of Maryland (College Park) – Energy Consumption Analysis and Optimum Cooling Solutions for a Medium Size Data Center
- University of Minnesota (Minneapolis) – Desiccant Dehumidification Test Facility
- University of Windsor (Ontario, Canada) – Underwater Compressed Air Energy Storage System Model
- Western Kentucky University (Bowling Green) – Air Flow Visualization System Using Infrared Thermography
- Wright State University (Dayton, Ohio) – Heat Powered Demonstration Chiller
- California State Polytechnic University (Pomona) – Moisture Control for Carbon Dioxide Sensor Applied in a Residential Furnace
- Jimei University (Xiamen, China) – Design and Construction of an Experimental Facility for Fresh Air Ventilator with Exhaust Air Heat Recovery Systems
- University of Algarve (Faro, Portugal) – Development of Sensors for HVAC Systems Control Based in the Human Thermal-Physiology

For more information on the grant program, visit www.ashrae.org/grants. ASHRAE will begin accepting applications for the 2013-14 program in August 2012, with a December 2012 final deadline.

Things Heat Up for ASHRAE: Annual Conference to be Held in San Antonio, Texas

ATLANTA—In a city with deep historical roots, ASHRAE will convene in San Antonio, Texas, to not only “remember the Alamo,” but look toward a greener future. The 2012 ASHRAE Annual Conference focuses on everything from the basics of HVAC maintenance to integrated building design.

As members work together to shape tomorrow’s built environment, the influences of San Antonio’s past—Old Mexico, the Wild West and the Deep South—serve as a reminder of the Society’s significant role in the city’s hot and dusty past, as well as the Society’s position as part of a future of sustainability.

Join ASHRAE in this historic city; registration is now open for ASHRAE’s 2012 Annual Conference, June 23-27.

The Technical Program features focused tracks on Integrated Energy Systems, Building Modeling Applications, Refrigeration Applications and Indoor Environmental Applications and general tracks addressing HVAC&R Systems and Equipment and Fundamentals and Applications.

“Interoperability of Smart Building Systems and Smart Grid” is the topic of the Technical Plenary, presented by Lawrence Jones, Ph.D., Alstom Grid Inc., Washington, D.C., on Sunday, June 24.

Also, an Integrated Building Controls “mini-conference” addresses the extension of building controls from just mechanical systems to lighting, water consumption, security and other building systems, working toward the goal of “intelligent buildings.” Sessions related to this topic are scheduled on Sunday and Monday.

The technical program begins Sunday, June 24, and ends Wednesday, June 27, with all sessions at the Henry B. Gonzalez Convention Center. Complete program details are available at www.ashrae.org/sanantonio. The entire technical program is approved for PDHs, and the majority of sessions are also approved for NY PDHs, AIA LUs and LEED AP credits.

The ASHRAE Learning Institute offers eight instructor-led training opportunities. Participants may choose from two full-day and six half-day courses to stay current on HVAC trends, including a new offering on understanding ASHRAE Standard 189.1-2011, Standard for the Design of High-Performance, Green Buildings.

The Conference keynote speaker is Ryan Dorsey, the Gen Y Guy®. Dorsey will focus on “Crossing the Generational Divide,” explaining how four generations are currently working side-by-side in the workplace and the strengths, weaknesses and different perspectives of each. The Plenary session takes place Saturday, June 23 at Grand Hyatt San Antonio.

ASHRAE technical tours offer an inside view of how technology developed by members is practically applied in building environments. Tours at the Annual Conference include the SAWS Chiller Plant and the Blue Wing Solar Farm.

The ASHRAE Annual Conference takes place June 23-27. Register before April 20 for early bird rates. The Grand Hyatt San Antonio will serve as the headquarters hotel. Visit www.ashrae.org/sanantonio for more information.

 <p>Doug Graham Regional Manager</p> <p>Tel: 800-561-3449 Fax: 800-668-8476 Cell: 613-852-9700 e-mail: grahamd@tamco.ca www.tamco.ca</p> <p>27 Iber Road Suttonville, Ontario Canada, K2S 1E6</p>	 <p>Adam Beales Principal</p> <p>Tel: (613) 723-4611 Fax: (613) 723-4677 Res: (613) 825-7319 Cell: (613) 223-2112 Email: adam@totalhvac.com Web: www.totalhvac.com</p> <p>TOTAL HVAC Inc. 14A-190 Colonnade Rd., 5 Ottawa, Ontario Canada, K2E 7J5</p>	 <p>Andrew Klassen Account Manager</p> <p>1024 Morrison Drive Ottawa, ON K2H 8K7 Cell 613 808 4054 Direct 613 356 1966 Tel 613 820 8111 Toll Free 888 872 6326 andrew.klassen@trane.com www.trane.com</p> 
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Changes Related to Data Centers, Lighting, Space Heating Energy Source Proposed for ASHRAE/IES Energy Standard

ATLANTA – A proposed change to the ASHRAE/IES energy standard regarding data centers recognizes the role that system efficiencies – vs. only equipment – can play in reducing energy consumption.

“This change regarding data centers represents a building block as we work to build on the foundation of energy conservation in the standard,” Drake Erbe, 90.1 vice chair, said. “We recognize that equipment used in buildings is reaching maximum capabilities in energy efficiency. We now must examine the role that system efficiencies play in saving energy. Inclusion of data centers in the standard was a step in that direction.”

With publication of the 2010 standard, ANSI/ASHRAE/IES Standard 90.1-2010, Energy Standard for Buildings Except Low-Rise Residential Buildings, data centers were included within its scope for the first time. Most data centers were required to have economizers, but some in the data center industry disagreed with the requirement, maintaining that economizers are subject to static discharge due to low humidity, gaseous contaminants and reliability.

Erbe said the 90.1 committee worked with the data center industry and ASHRAE’s technical committee on mission control facilities, technology spaces and electronic equipment to develop an alternative path known as power usage effectiveness (PUE) to allow use of developing technologies for which there are no energy modeling tools available. The path is addressed in proposed addendum ap, which is currently open for public comment.

“This is a significant issue to design professionals in that without a simulation program available to model these systems they have to receive approval from the authority having jurisdiction for an exceptional calculation method, which, in most cases, is beyond the jurisdiction’s knowledge level,” Erbe said. “The PUE values were developed using water cooled chillers with water size economizers and air cooled chillers with air side economizers, using prescriptive requirements currently in the standard. The PUE values for all climate zones are able to be achieved by both of these conventional system types.”

In total, 15 proposed addenda to Standard 90.1 are open for public review. For more information, visit www.ashrae.org/publicreviews.

Also open for public comment is addendum ao, which offers an alternative compliance path for lighting requirements aimed at the large number of smaller, simpler buildings that make up a majority of new construction and retrofit activity, according to Eric Richman, chair of the standard’s lighting subcommittee. It provides a less complicated set of requirements that should be easier to apply to these types of facilities, and also includes more stringent Lighting Power Density (LPD) limits that may restrict the application of more lavish space lighting designs not commonly found in these facilities. This compliance path will replace the current whole building LPD table and only applies to a subset of building types that encompass many of the smaller, simpler buildings. The use of this method is optional and the full space-by-space method used by most designers for larger more complex facilities still remains for application to any building type, Richman said.

In addition, addendum al is open for public review. Users of Appendix G of the standard have noted that the baseline energy budget is different depending on whether electricity or natural gas is chosen for either space heating and water heating, according to Don Brundage, a member of the Energy Cost Budget subcommittee. In some cases, this can provide greater energy savings estimates from Appendix G when using one fuel versus another, and provides a strong incentive to specify the fuel that will provide the greatest energy savings using Appendix G.

“Proposed addendum al would make the baseline building energy budget (the minimum code baseline for determining energy savings) the same regardless of the choice of fuel in the proposed building, eliminating this bias,” Brundage said. “This is done by setting rules to determine the fuel to be used in the baseline building for space and water heating. These rules are based on climate zones for space heating and type of building usage for water heating. This would make energy savings estimates using Appendix G more consistent and fair than under the current version of the standard.”

In addition to addendum al, ao and ap, eight other addenda are open for public review from March 23 until May 7. They are addenda af, ag, ai, am, an, aq, ar and at.

Four addenda are open for public review from March 23 until April 22. They are addenda ad, ah, aj and as.

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CRC Update

Daniel Redmond
2012 CRC Planning Committee Co-Chair
Smith & Andersen
E-mail: daniel.redmond@smithandandersen.com



What the Heck is a CRC?

About this time every year members are encouraged to think about attending the Region II “CRC”.

“What the heck is a CRC?” you may be asking, and “Why do I care?” More than you may know!

“CRC” is another one of those ASHRAE “TLA”s. It stands for [Chapters Regional Conference](#)

Each of the 13 ASHRAE regions plus the region-at-large has a CRC every year, rotating the site among the chapters of the region. We are in Region II, and our sister chapters are Halifax, NB/PEI, Quebec, Montreal, Toronto, Hamilton, London and Windsor. This year’s Region II CRC is to be hosted here in Ottawa, [August 24 -26th](#). The primary meeting site is Carleton University and the Saturday night banquet and social event is to be held at the National Arts Centre.

So what goes on at CRC? It’s hard to believe that so many activities can fit into such a short time span.

Each chapter sends an official Delegate and Alternate to represent their chapter. The conference begins with an Executive Caucus, where instructions concerning nominations to regional and society positions are given by the Regional Chairman. This informal meeting is followed by the Executive Session, where those nominations actually take place.

After the Executive Session, the room is opened to anyone interested for the first general business session. It is here that motions are made to propose new regional and society policies. In addition, each chapter is given the opportunity to report on its past year’s activities and accomplishments.

The President’s and Awards Luncheon includes an address by a high-ranking ASHRAE society officer, often the President. He or she gives insight into where ASHRAE is headed and reports on current initiatives and programs. The Awards Luncheon is the venue where ribbons, certificates and other merits are distributed – Blue, Red & Green ribbons for Membership, Regional Technical awards, Student Activities recognition, Research Promotion fundraising awards, Chapter Service Awards and the highly sought-after “travelling meatball” for the chapter with the highest mileage x attendees.

Activities for those participants outside of the Executive Session are committee workshops, technical tours and a full complement of excursions and activities for companions and family members who may be accompanying a CRC participant, such as tours of Ottawa attractions.

Saturday evening is a Gala Event to be held at the National Arts Centre where fine dining and dueling pianos will be the main attractions.

CRC is “Where the Action Is”. Anyone interested in meeting ASHRAE peers from Eastern Canada, becoming involved in the Ottawa Valley Chapter as an officer or member of a committee, or just gaining some insight into how ASHRAE operates, can and should attend.

There are many volunteer opportunities and we encourage you, whether you have two hours to spare or the weekend, to contact a member of the CRC 2012 Ottawa committee, and help make the [ASHRAE – Region II - CRC 2012](#) a successful event!

(this article partially plagiarized from Mike Swayne’s Capital Communique article of Spring 1994)

Co-Chairs: Darryl Boyce darryl_boyce@carleton.ca

Daniel Redmond Daniel.Redmond@smithandandersen.ca

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REGION II

CRC 2012 – Ottawa

SPONSORSHIP OPPORTUNITY

OVERVIEW OF SPONSORSHIP OPPORTUNITIES

The Ottawa Valley chapter of ASHRAE will be hosting this year's Chapter Regional Conference (CRC). Hundreds of HVAC engineers from all over Eastern Canada will spend three days in the Nation's Capital to train for, plan for and discuss ASHRAE business.

The CRC 2012 will be based at Carleton University's main campus. The Ottawa CRC organizing committee is planning a full weekend of busy working meetings and fun evening activities for our guests.

We simply could not put this event together without the support of HVAC business leaders. We have put together several levels of sponsorship opportunities to help you promote your company's services.

All of our sponsors' logos (along with their level of sponsorship) will be clearly displayed on a large banner at the registration desk and in our events program.

OPPORTUNITIES THAT ARE ALREADY SPOKEN FOR ARE GRAYED OUT...

PLATINUM SPONSORSHIP

SATURDAY PRESIDENTIAL DINNER SPONSOR—\$3000

- Your company logo prominently displayed at the event (at the entrance and on each table);
- The MC will officially recognize your company's sponsorship during the dinner; and
- Your company logo identified as a platinum sponsor on official CRC signage and programs.

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GOLD SPONSORSHIP

FRIDAY EVENING COCKTAIL SPONSOR - \$2000

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REGION II CRC 2012 – Ottawa SPONSORSHIP OPPORTUNITY

Continued

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SATURDAY BREAKFAST SPONSOR - \$750

SATURDAY HOSPITALITY SUITE SPONSOR - \$750

SUNDAY BREAKFAST SPONSOR - \$750

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Non-member: \$250/month

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Committee
Chair



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2 WAYS TO REGISTER

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Note: You may register up to 24 hours prior to an online course. Courses are in US Eastern Standard Time.



District Cooling & Heating Systems
Mon, March 19, 2012 – 1:00 pm to 4:00 pm ET

Basics of Combined Heat & Power
Wed, March 21, 2012 – 1:00 pm to 4:00 pm ET

Evaluating the Performance of LEED®-Certified Buildings
Wed, March 28, 2012 – 1:00 pm to 4:00 pm ET

Commissioning Process & Guideline 0
Wed, April 4, 2012 – 1:00 pm to 4:00 pm ET

* **Complying with Standard 90.1-2010: HVAC/Mechanical**
Mon, April 9, 2012 – 1:00 pm to 4:00 pm ET

* **Complying with Standard 90.1-2010: Envelope/Lighting**
Wed, April 11, 2012 – 1:00 pm to 4:00 pm ET

* Take both Standard 90.1 courses and save 20% on the price of these courses



The following courses are comprised of two parts. Registrants must attend both parts in order to receive CEUPDH credits. Archiving is available.

Humidity Control: Principles and Applications – Part 1
Mon, March 26, 2012 – 1:00 pm to 4:00 pm ET

Humidity Control: Principles and Applications – Part 2
Mon, April 2, 2012 – 1:00 pm to 4:00 pm ET

Implementing ASHRAE Standard 189.1-2009 – Part 1
Mon, April 16, 2012 – 1:00 pm to 4:00 pm ET

Implementing ASHRAE Standard 189.1-2009 – Part 2
Thurs, April 19, 2012 – 1:00 pm to 4:00 pm ET

Integrated Building Design – Part 1
Mon, April 23, 2012 – 1:00 pm to 4:00 pm ET

Integrated Building Design – Part 2
Wed, April 25, 2012 – 1:00 pm to 4:00 pm ET

ASHRAE HVAC Design Workshops

2 Workshops, 5 Days of Intense Instruction

May 21-25, 2012 • ASHRAE Foundation Learning Center • Atlanta, GA

ASHRAE Certification Programs

HVAC Design: Level I – Essentials

May 21-23, 2012

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May 24-25, 2012

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