



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

EVENING PROGRAM

2010 - 2011

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Table Top

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PAOE

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Business Cards

Rod Lancefield

Nominations

Robert Kilpatrick

CRC Action

TBD

DATE: Tuesday **October 19, 2010**. Social: 17:30 Dinner: 18:30 Program: 20:00
Travelodge Ottawa Hotel & Conference Centre,
1376 Carling Avenue, Ottawa, Ont., 613-722-7600

TECH TOUR: You are invited to a technical tour of Centre des Métiers Minto – 15:30-16:45
Campus Alphonse-Desjardins Orléans see Joel Primeau article for more detail.

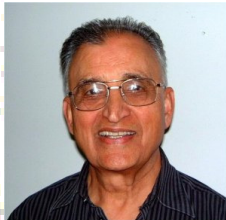
THEME: TEGA (Technical, Energy and Government Activities) / Student

PROGRAM: **NRC Cogeneration System**

SPEAKER: **Subash Vohra P.Eng.**

OVERVIEW: The NRC Cogeneration system involves a 4.0 MW gas-turbine generator and a heat recovery steam generator located in an old coal bunker section of the Central Heating Plant. It was a high profile project for Canada's renowned NRC which is prestigious in scientific and engineering fields on a world-wide basis. The cogeneration system he developed for the multi building NRC Montreal Road complex both heats and cools that large facility. The Absorption Chillers which cool the complex use steam from the cogen system. His responsibility for operation and maintenance has provided him with a good knowledge of all aspects. He added an absorption chiller system to cool the power plant building thus increasing the gas turbine output in warm weather.

BIO: Subash Vohra P.Eng. is Vice President COGENCanada and holds a degree in mechanical engineering from India. Following two years of energy related engineering work in the Germany followed by a period doing the same sort of work with an Engineering firm in Montreal he joined the Canadian National Research Council where he rose to become Director of Facilities Engineering and Maintenance for ten years. He became the Director General of Administrative Services and Property Management in 1997 and worked in that capacity until his retirement in January 2007. Many of Subash's projects, such as a number of energy performance contracts and installation of a 4.5 megawatt gas turbine cogeneration unit have been considered best practices in the public and in the private sector. He is the recipient of the first Federal Energy Innovation Award, the Treasury Board Award for Leadership in the Federal Real Property Community, Ontario Hydro's Energy Efficiency Award, the American Society of Heating, Refrigerating and Air Conditioning Engineers' Technology Award, and the Governor General of Canada's medal for contributions to Canada and the Golden Jubilee Medal. Subash has been recognized in the engineering community for his leadership in energy management that contributed to NRC being considered a pioneer in energy efficiency.



Menu

Chapter Members: \$35.00 Guests: \$50.00

All you can eat Buffet with assorted salads, pastas and grilled chicken

Assorted cake squares, coffee and tea

For more details see article below



President's Message

By Christine Kemp
2010-2011 OVC President

I know, I know, "What happens at the CRC stays at the CRC"....but there are so many things I want to tell.

This year's Canadian Regional Conference was held in **Halifax**. What a great group of people in the Halifax Chapter. This event is an opportunity for the Ottawa Chapter to meet volunteers from the other chapters in our region. We can learn a lot from them and they always give us new ideas on how we can improve our Chapter for our members' benefit. The workshops were interesting, informative and key for educating our Committee Chair people on what is expected and required from them throughout the year.

Ottawa Valley Chapter won many deserving awards at the Award Luncheon:

Patrick St.Onge won: Runner-up (Goal, Challenge, PAOE, \$ paid per member), Silver Treasury Ribbon, Full Circle Chevron, High Five Certificate and Challenge Certificate

Jason Alexander won: Region II communications award, Presidential award of excellence, High honour role with special citation and Gold star award

Rod Potter won: Gold Ribbon Historical Award

Phil Lemieux won: Red Ribbon Award

Matt Edmonds accepted: 3rd place award for the design completion won by Algonquin College.

All ribbons and badges can be seen on the ASHRAE banners which are displayed at each ASHRAE meeting. Congratulations to all of our winners, thanks very much for all of the time and effort you put into ASHRAE.

Christine Kemp
2010-2011 OVC President



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Not only did we do well at the Awards, we owned the Hospitality Suite. Our own Joel Primeau, Adam Moons and Matt Edmonds entertained us all by singing and playing the guitar:



ROY SAMHABER, P.ENG.
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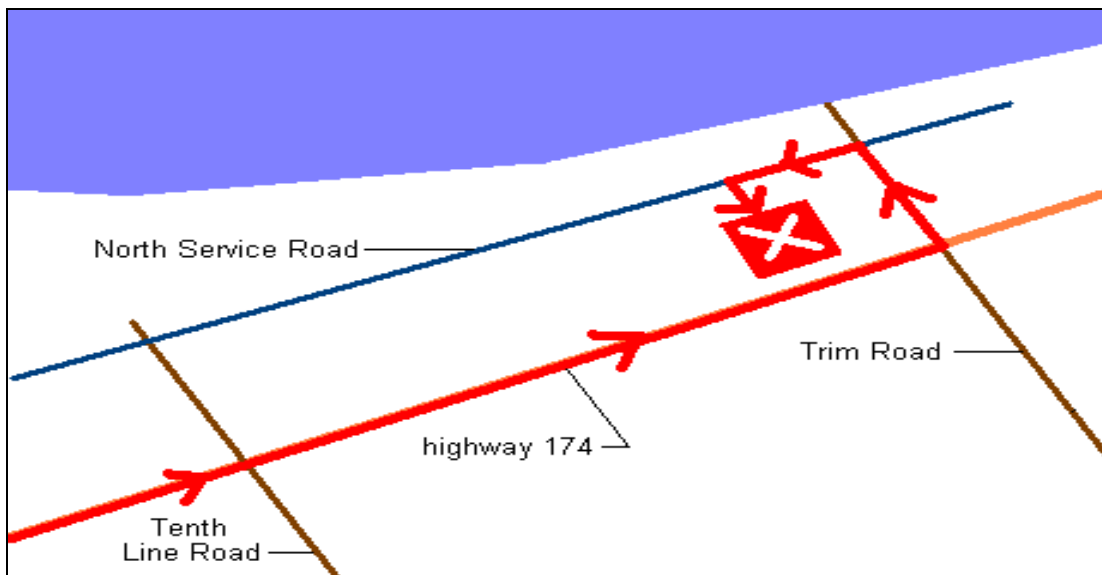
Technical Tour Centre des Métiers Minto Campus Alphonse-Desjardins Orléans

By Joel Primeau
2010-2011 Real Big Guy



When: Tuesday October 19th from 3:30 pm to 4:45 pm.

Where: The campus is located on North Service Road in Orleans, just off highway 174 at Trim Road... You can park on North Service Road.



Why: This campus will be a LEED-NC Silver (likely Gold) building that is over 35% better than ASHRAE 90.1... You'll see a DOAS HVAC system with a magnetic bearings chiller, condensing boilers, reverse-flow technology heat recovery, infra-red heating, and fabric ducts ...

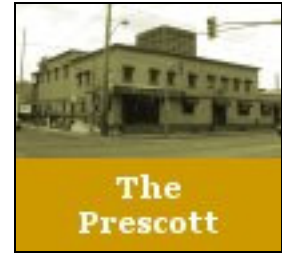
Who: *Joel Primeau* will lead the tour of the HVAC systems and *Martin Sing* will lead the tour of this fabulous new teaching facility.



What you missed

by Rod Potter

Secretary, Chapter Historian, **Gopher** and Webmaster



The meeting was held at the Prescott Hotel in remembrance of the years our chapter held its meetings there (1952 – 1958). The theme was History and the chapter decided to make it a social evening to welcome our members into the new ASHRAE year. Engineered Air provided The Prescott Hotel's famous "Square Pizza" through an extended social that started at about 4 pm.

President **Christine Kemp** opened the meeting at 6 pm and welcomed members, guests and students, then introduced the Board of Governors and Executive. Following this Secretary Rod Potter introduced the guests for the evening, and then Membership Chair Adam Moons introduced the new members.

We were blessed with the attendance of **John Dugan** and **George Carscallen**, both of whom received the *Distinguished Fifty Year member Award* from ASHRAE Society last year. Past-president Ross McIntyre stepped in to present their official plaques. Read more about this award on our chapter website here:

http://www.ashrae.ottawa.on.ca/ashraeoc_history/2009-2010/ashraeoc_history_2009-2010_Awards.shtml

Phil Lemieux did a splendid job as Membership Chair last year and he was presented with the *Red Ribbon Award* by Cathy Godin (RVC Membership).

Patrick St-Onge was very successful with his Research Promotion fund gathering during the 2009-2010 chapter year. Current past-president Jason Alexander presented Patrick with a number of awards for his efforts – Certificate of Achievement, Runner-Up – Goal Challenge, PAOE, \$ Paid per member, and Silver Treasury Ribbon. Patrick borrowed a large shopping bag to carry all his awards home.

Dinner proceeded from 6:30 through 7:30 pm. I can personally vouch for the *Famous Meatball Sandwich* which was delicious.

The evening program consisted of a 70's Trivia Contest based around music, television, movies, and interesting photos from the ASHRAE Ottawa archives. Quizmaster was Rod Potter, amply supported by Patrick Albert as Scorekeeper. There were three rounds of 16 questions, and ultimately the team from **InAir Environmental** was victorious. President Christine Kemp presented Rod Potter with a bucket of beer for his efforts at the conclusion of the quiz.

The meeting wrapped up at about 9 pm and judging from the response from the crowd, it was a very successful evening indeed.



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Treasurer



Get your dinner tickets!

By Donald Weeks
2010-2011 Treasure

Your Board of Governors are always looking for ways to improve the service that the Chapter provides to our members. With that in mind, one of the most important items is to make sure that the members who attend the monthly meetings get a dinner at that meeting. To ensure that the number of dinners ordered matches the number of dinners provided at the Travelodge, you will be handed a small dinner ticket at the registration desk, when you sign in. As a reminder, please sign in at the registration desk even if you have a full or half year meal plan, so that we can notify the kitchen as to how many meals are to be prepared and served.

Please place that ticket in front of your plate on the table so that the waiters and waitresses know that you are to receive a dinner that evening. The tickets will serve a notice to the wait staff that you have signed in at the registration desk.

Looking forward to seeing you on October 19th!

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Committee
Chair



Membership

By Adam Moons
2010-2011 OVC Membership Promotion Chair

Truly delightful to see so many new faces at this season's opening event. Of course most faces are still new to me, but that's not the point.

If you brought a guest to the event, thank you! It is important to afford potential new members the opportunity to experience ASHRAE. Exposing your friends and colleagues can help them in their careers, while helping me attain my membership goals. Everybody wins. Especially me. To that end, I would like to encourage all our members to do the same. In addition, for those in a position to do so, I strongly encourage you to support the membership of new hires and young employees. We have a fine program this year, and it would be great if we could all enjoy it!

I would also like to welcome the following new members:

Andre Picard	Eric Savage	Howie Ng
Yogendra Sawh	Peter Nabi	Rebekah Olson

Looking forward to seeing you and your friends at the next event!

Governor



Sens Tickets Giveaway!

By Patrick Albert
2010-2011 OVC Governor

Here is your chance to win a pair of tickets and a parking pass to an upcoming Ottawa Senators game at the Scotia Bank Center. These tickets have been donated by **Walmart Ventilation**. We will be raffling off the tickets at our October meeting for \$5.00 a ticket and all proceeds will go to ASHRAE research.



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Committee
Chair



Student Activities: A Look Back at a Rising Star and a Look Forward at This Year's Student Activities

By Matthew Edmonds
2010-2011 Student Activities Chair

ASHRAE OVC – Student Activities – Matthew Edmonds

The 2010 ASHRAE CRC has come and gone, along with it we say Farewell to Nova Scotia, goodbye to Halifax, the Lower Deck, great food, great drinks, and some great people. What I do return with is the goals from the society level and where they would like us to focus our efforts this year. I may have also returned with a slight case of dehydration, some blisters on my fingers and a real appreciation for the Maritimes!

As expected this year's goals remain similar to last year focusing on K-12 awareness and involvement. Research has shown that exposing students to engineering presentations and activities significantly increases both awareness and interest in our profession at an early enough stage in the educational process for students to choose engineering as an education and career path. As always we will be looking for volunteers to help with some of these efforts and getting out into the community. Promoting K-12 can be a daunting task, but there are simple ways of getting the word out and helping your chapter with recognition in this area;

- National Engineering Week: Occurs in the end of February. Contact your local PEO chapter and get involved. <http://www.engineeringweek.on.ca/>
- Students at Work Day: Get involved in co-op or work days that give students a chance to see what our industry is like.
- In-School Activities: I have been provided a list of several activities that can be performed at school which are easy and generate conversation. There is no need for dry presentations to uninterested teenagers. Contact a science teacher or a principal and volunteer ½ hour of your time.

If you do participate in any of these fantastic endeavours, advise your student activities chair... me! As a chapter we are recognized for our chapter's ability to promote ASHRAE and engineering to K-12 students. Let's spread the word...

Back on our home ground, the ASHRAE Design Competition for 2010-2011 has been released from Society. Now part of their final year curriculum, Algonquin College has its team already meeting with mentors and getting the project underway. Introduce yourself to the team at the next meeting; they can usually be identified as the young group sitting at their own table looking very uncomfortable.

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 would like to 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!

All the best and we will see you at the next meeting,

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>

Dates to remember:

Undergraduate Engineering Scholarships

Application Deadline: Dec. 1

Scholarships are awarded for the academic year following the application deadline beginning with the fall semester.

Re-applications accepted from former scholarship applicants and recipients.

Available to full-time undergraduate engineering or pre-engineering students pursuing a Bachelor of Science or Engineering degree in a course of study that traditionally has been a preparatory curriculum for the HVAC&R profession. Applicants must be enrolled in a program or accepted to a post-secondary educational institution that meets at least one of the following criteria:

- the institution hosts a recognized ASHRAE student branch (www.ashrae.org/students)
- the program is accredited by the Accreditation Board for Engineering and Technology (ABET) in the USA (www.abet.org)
- the program is accredited by an agency outside the USA that has signed a Memorandum of Understanding with ABET or The Washington Accord (www.abet.org)

Applicants must have a cumulative Grade Point Average (GPA) of at least 3.0 on a scale where 4.0 is the highest and/or a class standing of no less than the top 30% and submit the following in one envelope postmarked by the application deadline.

1. Completed application in English.
2. Official transcript of college grades (if college grades are not available by the application deadline, submits high school grades and verification of enrollment in or letter of acceptance to a post-secondary educational institution.)
3. A letter of recommendation from an instructor or faculty advisor, a current or past employer, and another character reference. In the case of institutions with an ASHRAE student branch, include a letter from the faculty advisor of that branch (may be one of the three letters of recommendation). Comments from the Student Activities Chair of an ASHRE chapter, if one is within reasonable distance of home or school following an interview with the applicant, are strongly recommended and may be submitted electronically.

For a list of schools with an ASHRAE student branch or accrediting agencies recognized by ASHRAE for the purpose of granting a scholarship, click on the links provided or contact Lois Benedict at lbenedict@ashrae.org or 404-636-8400 (ext. 1120).

\$10,000 Undergraduate Engineering Scholarships

- **Willis H. Carrier Scholarships** — Two one-year \$10,000 undergraduate engineering scholarships available annually. Scholarship was established by The Carrier Corporation in memory of its founder, who's known widely for his numerous and significant contributions to establishing air conditioning as an industry. Carrier installed the world's first scientifically designed air conditioning system in 1902

- **Reuben Trane Scholarships** — two-year \$10,000 undergraduate engineering scholarships awarded \$5,000 per year over two years. Scholarship was established in memory of The Trane Company founder, an engineer, inventor & business executive, whose manufacturing enterprise ranks today as one of the world's largest in the HVAC&R industry.

\$5,000 Undergraduate Engineering Scholarship

- **Frank M. Coda Scholarship** — a one-year \$5,000 undergraduate engineering scholarship available annually. Scholarship was established in memory of former ASHRAE Executive Vice President, who served the Society from 1981-2004.

\$3,000 Undergraduate Engineering Scholarships

- **ASHRAE General Scholarships (2)**
- **ASHRAE Memorial Scholarship (1)**
- **Alwin B. Newton Scholarship (1)**
Scholarship was named for an industry pioneer, who was granted 219 patents.
- **Duane Hanson Scholarship (1)**
Scholarship is named after the president of Gayner Engineers, a consulting mechanical/electrical engineering firm in San Francisco, California.
- **Henry Adams Scholarship (1)**
Scholarship was established by Henry Adams, Inc, a consulting firm based in Baltimore, Maryland, in memory of its founder, a charter member and sixth president of ASHRAE's predecessor society, ASHVE, in 1899.

Undergraduate Engineering Technology Scholarships

Application Deadline: May 1

Scholarships are awarded for the academic year beginning with the fall semester following the application deadline. Re-applications accepted from qualified former scholarship applicants and recipients

Applicants must have a cumulative Grade Point Average of at least a 3.0 on a scale where 4.0 is the highest and/or a class ranking of no less than the top 30% (evidenced by an official transcript of grades or statement from a school administrator) and meet all other basic criteria.

Engineering Technology Scholarship (3)

One-year \$3,000 scholarships available annually to full-time undergraduate Engineering Technology students enrolled in or accepted to a post-secondary educational institution for a bachelor degree or an associate degree and pursuing a course of study, which has traditionally been a preparatory curriculum for the HVAC&R profession, provided one of the following criteria is met:

- the institution hosts a recognized ASHRAE student branch (www.ashrae.org/students)
- the program is accredited by the Accreditation Board for Engineering and Technology (ABET) in the USA (www.abet.org) or an equivalent agency outside the USA that is a signatory of The Sydney Accord <http://www.washingtonaccord.org/sydney/sydneylinkages.cfm>
- the program is accredited by the Partnership for Air Conditioning, Heating, Refrigeration Accreditation (PAHRA) (<http://www.pahrahvacr.org/>)

For a list of schools with an ASHRAE student branch or accredited programs recognized by ASHRAE for the purpose of granting an Engineering Technology Scholarship, click on the links provided above or contact Lois Benedict at lbenedict@ashrae.org or 404-636-8400 (ext. 1120). Applicants must submit the following with the application completed in English in one envelope and postmarked by the application deadline:

1. Official transcript of college grades (if college grades are not available by the application deadline, submits high school grades and verification of enrollment in or letter of acceptance to a post-secondary educational institution.)
2. A letter of recommendation from an instructor or faculty advisor, a current or past employer, and another character reference. In the case of institutions with an ASHRAE student branch, include a letter from the faculty advisor of that branch (may be one of the three letters of recommendation). Comments from the Student Activities Chair of an ASHRE chapter, if one is within reasonable distance of home or school following an interview with the applicant, are strongly encouraged and may be submitted electronically.

Governor



2010 Bowling Social

By Steve Moons
2010-2011 OVC Governor

Ladies and Gentlemen

A reminder about the 2011 ASHRAE Bowling Social, to be held on **Tuesday, November 9th, 2011** at the Merivale Bowling Center (1916 Merivale Rd., Ottawa, www.merivalebowlingcentre.com).

The format will be three games with 4 people per lane. **7:00 pm start. Please show up at 6:30 to register.** The entry fee is \$120 per foursome, or \$30 per individual. The entry fee includes 3 games, shoe rental and nachos/wings/pizza. Individual participants will be assigned into groups of four.

This is intended to be a social event to promote the camaraderie and fellowship of ASHRAE, please consider attending. Spots are filling up, but space is limited to 32 people, so please send your registration soon! If you have any questions, or need more information, please don't hesitate to contact me.

Steve Moons

Registrations will be confirmed via email.

___ Please reserve 1 Foursome....\$120.00

___ Please reserve 1 Individual....\$30.00

Company _____

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Email _____ Phone _____ Fax _____

Payment can be made in advance via cheque, VISA or email money transfer. Cheques are payable to: ASHRAE Ottawa Valley Chapter and mail or deliver to:

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Governor



Table Top Displays

By Frank Bann
2010-2011 OVC Governor

We have three table tops this month; please see below for details for what will be featured;



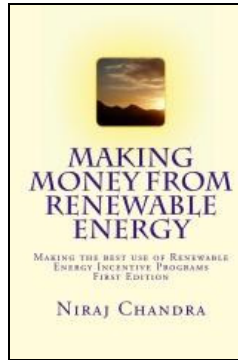
Spring Air will be featuring their Truflow energy management which measures heat from the appliances and automatically adjusts fan speed throughout the day, giving you the precise amount of exhaust at all times. Brought to you by Walmar Ventilation Products



Master is now the exclusive distributor of **LG's complete line of Commercial AC cooling & heating products.**

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At your next ASHRAE meeting, Master will bring LG to you: an outdoor condensing unit, an indoor ducted fan coil unit, a mirror artcool wall mounted unit and more.



Making Money from Renewable Energy By Niraj Chandra, P.Eng.

Renewable energy is no longer a fad for the rich and the famous who want to add “green” credentials to their name. As this book explains, homeowners and small business owners can profit from renewable energy with the help of new incentive programs.

This book helps you realize the full benefits from such programs. In simple, practical terms, it walks you through the entire process of planning, designing and implementing your renewable energy project. It explains what permits are required, what work the owner can do and when to call in for expert help.

It is not written for rocket scientists. In simple, non-technical language, it tells you what you need to know to set up your renewable energy project as quickly as possible.

One of our own members of the ASHRAE OVC has a published book! Check it out by clicking the link below;

http://www.amazon.com/Making-Money-Renewable-Energy-Incentive/dp/1449586597/ref=sr_1_1?s=books&ie=UTF8&qid=1285770586&sr=1-1#



What's on the Menu

By Patrick Albert
2010-2011 OVC Governor

Here is what we were thinking for your October 19th event:

Mixed Greens Salad with Dressings
Spicy Three Bean Salad
Carrot & Pineapple Salad with light vinaigrette
Traditional Potato Salad
Rolls and Butter

MAIN DISHES

Grilled Chicken in Wild Mushroom Sauce

Cheese Manicotti with Sundried Tomato and Basil infused Rose Sauce

Served with Steamed Market Vegetables & Roasted Mini Red Potatoes

DESSERTS

Assorted Cake Squares
Coffee Tea



TEGA-2010 Regional Competition Results

By Georges Maamari
2010-2011 OVC Committee Chair

Last year, a total of eight (8) projects from our chapter were submitted to the Regional Competition, where they competed with numerous other projects submitted by other chapters from Region II. Our chapter received great recognition at the Regional level; obtaining a total of six (6) first place finishes and 2 honorable mentions.

1st Place New Institutional Building

Patrick St-Onge, Wood Banani Bouthillette Parizeau.

For the Gatineau Fire Station # 5: a new 28 000 square foot fire station including an administration department occupying 40 people.

Design Highlights: Use of geothermal exchange as the primary heating and cooling source.

1st Place Existing Institutional Building

Kashyap Desai, Stantec

For the new chiller installation at the NRC chiller plant.

Design Highlights: Two 500 tons high efficiency VFD chillers with three new VFD chilled water pumps.

1st Place New Public Assembly

Patrick St-Onge, Wood Banani Bouthillette Parizeau.

For the Albion Heatherington Community Center: a new 7 700 square foot community center, including a gym, locker rooms, a multipurpose room and offices.

Design Highlights: Use of displacement ventilation in 90% of all spaces. Supply air temperature of 64°F.

1st Place Existing Commercial

David Landsberg, Dessau

For the reconfiguration of the central cooling system at the CD Howe building.

Design Highlights: This extensive modernization included heat recovery addition under full occupancy.

1st Place New Residential

Kashyap Desai, Stantec

For the new LeBreton Flats high rise condominiums, Phase 1.

Design Highlights: Three condensing natural gas boilers with an actual efficiency of 93.5%, MUA with enthalpy energy recovery.

1st Place New Industrial Facility

Kashyap Desai, Stantec

For the new chiller plant and cooling system upgrade at CFIA.

Design Highlights: Two 750 tons high efficiency VFD chillers with VFD chilled water and condenser water pumps, VFD cooling tower fans, high efficiency closed loop and open loop filtration, new BACNET DDC.

Honorable Mention

Mike Swayne, JP2G

For the new Briarbrook Elementary School: a new 2 storey, 50 000 square foot elementary school.

Design Highlights: Incorporates a highly efficient heat pump system located throughout to provide both heating and cooling.

Honorable Mention

Kashyap Desai, Stantec

For the chiller, EMCS and lighting upgrade at 116 Albert St.

Design Highlights: New 300 ton high efficiency VFD chiller, VFD secondary pump system, and new base-building EMCS.

Congratulations to all the winners and participants, the OVC chapter is very proud of your success and efforts. We look forward to seeing you submitting new projects for our 2011 TEGA campaign.



TEGA- 2011 Campaign

By Georges Maamari
2010-2011 OVC Committee Chair

ASHRAE offers three competition-based award programs to showcase innovative designs and communicate that technology to other members: the Technology Award, the Garland Award (for non-comfort refrigeration systems) and the Refrigeration Comfort Cooling Award (for comfort-cooling refrigeration systems).

The Technology Award Program recognizes members for innovative designs, communicating that technology to other members, and high-lighting achievements to other professionals. The Chapter Technology Transfer Committee is accepting applications for the 2011 Chapter Level competition in March 2011 in the following categories:

- Commercial Buildings, New and Existing
- Institutional Buildings, New and Existing
- Health Care Facilities, New and Existing
- Industrial Facilities or Processes, New and Existing
- Public Assembly Facilities, New and Existing
- Residential Buildings, New and Existing
- Alternative or Renewable Energy Use

Entries are judged on energy efficiency, indoor air quality and thermal comfort, innovation, operation and maintenance, cost effectiveness, environmental impact and quality of presentation. The process for the ASHRAE Technology Awards starts at the Chapter level: chapter competition winners advance to the Regional Technology Award Competition. Regional winners then submit a long form application for the Society Technology Award Competition. Winners of the Society Competition will be featured in the ASHRAE Journal.

Also, ASHRAE offers two competition-based awards encouraging the design of innovative refrigeration system awards. The Milton W. Garland Commemorative Refrigeration Award for Project Excellence recognizes non-comfort refrigeration systems. The Refrigeration Comfort Cooling Award for Project Excellence is oriented toward comfort refrigeration systems.

The Ottawa Valley Chapter Technology Transfer Committee is currently accepting applications for these competitions for 2011.

The Garland Award competition is open for the design of mechanical refrigeration machinery for applications other than human comfort: e.g., food processing/preservation, industrial/manufacturing processes, life support in extreme environments, recreational facilities.

The Refrigeration Comfort Cooling Award competition is open for the design of mechanical refrigeration machinery for human comfort applications.

Both submissions must be made within 36 months of the initial operating date of the system, and will be judged on the following criteria:

- Complexity of Problem
- Solution Concept
- Architectural Integration
- Originality
- Achievement of Performance Criteria
- Energy Effectiveness
- Budget Compliance
- Ease of Maintenance

If you require additional information, please feel free to contact me or visit the Website:

<http://www.ashrae.org/members/page/797>

Regards, Georges Maamari



Zip-Lining to Treasurer

by Rod Potter
Secretary, Chapter Historian, Gopher and Webmaster



Some weeks ago my lovely wife Lindsay came home with free passes to “zip-lining” up at Camp Fortune in the Gatineau Park. It seems that her partners at the office had tried to encourage a “group outing” of their staffers to the aerial escapades that ensue just west of Chelsea. It also seems that there was a certain lack of enthusiasm from a majority of the crew. This reminds me of movies that make fun of horrendous “team-building” exercises where everyone is (sort of) forced to take part. If you have not seen the movie “Severance” starring Danny Dyer from 2006, I suggest you get out the popcorn. Anyway after spending a while persuading two of our neighbours to join us on a fine trip to Gatineau Park, we finally took the plunge (no pun intended) yesterday. Arriving slightly late we were helped into belt-harnesses having two safety karabiners and a zip-line pulley karabiner, plus various related accoutrements. Of course I felt like a prat as I stumbled to get my legs through the right openings in the harness.

As we waited to be taken to indoctrination we watched as various people zipped down towards us – landing gracefully on a ramp, and smiling as they finished the course. Speaking of the course, this was completely hidden from view other than the final zip. Eventually we were all walked up a trail to the start point (there were about 20 of us by now), where a trusty young man extolled the virtues of the climbing harness and how to use the karabiners correctly. Then he simply stated – kids do this course, adults do that one, pointing up a rope ladder. Lindsay pushed me towards the ladder and said “you first” – and up I went.

The first thing you are told is that you must always be connected to the apparatus with at least one karabiner. The rope ladder had extra loops of wire sticking up and these were for this purpose. Of course the tendency was to just clamber straight up there – until you made your first discovery – (a) the majority of the escapade was going to take place at above 20 feet from ground level, and (b) most of it is NOT zip-lining. Most of it was terrifying stumbles between trees on swinging logs, guy-wires, and anything else that some sadistic sod had managed to dream up. The first few sections were sort of okay and I managed them all the while ignoring the fear of heights I have suffered since childhood. Eventually I came to one section that required you to “just do it because if you don’t you are going to look like a twit” (you soon realize that once you are half-way through a course [six of them, each with about eight sections], there is no escape). I kept saying to myself “this is freaking me out, Lindsay must be hating it”. And she was.

The zip-line sections were certainly invigorating once you were comfortable with the height. I found that I was okay as soon as I felt the line take the weight of my body – you start out by sort of leaning out and drooping a bit so you can feel your harness tighten on the zip line. All the while you have to ignore the height which seemed to be greater towards the end of the course. The final course had the longest zip-line sections and I have to admit that the height was really getting to me on that second-last zip, which was about 30 feet up at the start point. Luckily the actual zips take only about 10 seconds to complete (poor Lindsay slowed down too much on that second-last zip and came to a halt nearly 30 feet from the end – she had to drag herself up to the platform to complete it).

By the time this was all over I must admit that I was glad it was over – it took about three hours. I was really impressed with the girls who managed to complete the courses without much trouble – inside I was blubbing. It was interesting to note that by about half-way through you find yourself able to just step out onto a suspended high-wire and walk along it without thinking about the height. You get used to the security offered by the karabiners, proof of how quickly we can adapt when we need to. We all headed to the nearest watering hole straight after the ordeal and enjoyed drinks with bubbles in them. Some of you may have noticed that I have a major fear of f**king up in any of my endeavours – and I have mentioned to some of my OVC colleagues that I am not looking forward to taking the Treasurer reigns next year – because I might just f**k it up. I am told by the ever-strong Stephen Lynch that I have nothing to worry about, and I will be watching Don Weekes closely through the year to learn what I can. I will keep telling myself that if I managed to complete the zip-lining escapade, then I can do this too.

Cheers from the office of Rodders CAS.



ASHRAE Assists College Student

By Steven Moons
2010-2011 OVC Governor

ASHRAE Assists College Students with Tuition through Scholarships

In order to reduce the financial strain on engineering students around the world, ASHRAE is awarding over \$80,000 in scholarship money for the 2010-2011 school year.

“ASHRAE acknowledges the need to be supportive of students and the development of a future generation of ASHRAE members continuing to ‘advance the arts and sciences of HVAC&R’,” Victor Goldschmidt, chair of the ASHRAE Scholarship Trustees, said. “At these times of a challenging economy and need for technical advances it is more important than ever to be involved in providing scholarships to worthy students, and through our chapters, having a presence with institutions with HVAC&R related programs.”

The 19 ASHRAE scholarships are as follows:

- Reuben Trane Scholarship: \$10,000 to be awarded over two years. The scholarship was established by the Trane Co. in memory of its founder, an innovative engineer, inventor and business executive.
- Willis H. Carrier Scholarships: \$10,000 for one year. The scholarship was established by the Carrier Corp. in memory of its founder, who installed the world’s first scientifically designed air-conditioning system.
- Frank M. Coda: \$5,000 for one year. The scholarship was created in memory of ASHRAE’s former executive vice president, who served from 1981-2004.

The following awards include one-year \$3,000 scholarships:

- Duane Hanson Scholarship: The scholarship was established by Gayner Engineers and is named for the company’s former president.
- Alwin B. Newton Scholarship: The scholarship is named for an industry pioneer and ASHRAE Fellow who was granted 219 patents.
- Henry Adams Scholarship: The scholarship was established by Henry Adams Inc. in memory of its founder, a Charter Member and sixth president of ASHRAE’S predecessor society, ASHVE, in 1899.
- ASHRAE Region IV/Benny Bootle Scholarship: The scholarship was established collaboratively by Region IV and Benny Bootle, a former Region IV director and regional chair on the ASHRAE Board of Directors.
- ASHRAE Region VIII Scholarship: This scholarship was established by Region VIII, which includes Arkansas, Oklahoma and Mexico and parts of Louisiana and Texas.
- J. Richard Mehalick Scholarship: The scholarship was created by a former ASHRAE member who was instrumental in the development of air-conditioning equipment used in commercial, military, aerospace and transportation application.
- Donald E. Nichols Scholarship: The scholarship was established by a former member of ASHRAE’s Board of Directors who served for four terms.

- ASHRAE Memorial Scholarship
 - Associate of Engineering Technology
 - Bachelor of Engineering Technology
- ASHRAE General Scholarships:

Over the course of 20 years ASHRAE has awarded a combined \$1 million to over 200 deserving undergraduate and graduate students. It is ASHRAE's belief that aiding these future leaders of the heating, ventilation, air-conditioning and refrigeration industry will in turn benefit society as they lead the way in sustainable HVAC&R technology.

For more information on ASHRAE scholarships, visit www.ashrae.org/scholarships. Applications are now being accepted for the 2011-12 undergraduate, regional and university-specific scholarships. The deadline is Dec. 1, 2010. Please contact Matt Edmonds, chair of student relations, if you have any questions.

Committee
Chair



Business Card Ads

by Rod Lancefield

You can support your chapter and promote your business by placing your business card in the Capital Communicqué. It will also appear on the Chapter website.

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