

Capital Communiqué

2007 - 2008

President
Robert Lefebvre

President Elect
Francois Belair

Secretary
Patrick St.-Onge

Treasurer
Jason Alexander

Past President
Glenn MacLean

Governors
Paul Baker
Jeff Jarvis
Niraj Chandra
Roderic Potter
Frank Bann

COMMITTEES

Audit
Francois Belair

Research Prom.
Glenn MacLean

Membership
Christine Kemp

Program
Jeff Jarvis

Student Activities
Stephen Lynch

TEGA
Thomas Chiykowski

Chapter Historian
Roderic Potter

Golf Tournament
Cathy Godin

Curling Bonspiel
Chris Healey

Communiqué
Georges Maamari

Publicity
Francois Belair

Table Top
Frank Bann

Telephone
Cathy Godin

Greeter
Mike Swayne

Roster
Kevin Toll

Webmaster
Roderic Potter

Al Oakes Award
Glenn MacLean

Nominations
David Eastwood

CRC
Robert Lefebvre

**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

September 2007

EVENING PROGRAM

DATE: Tuesday **September 18, 2007**. Social: 16:30 Dinner: 18:30 Social: continuous...
The Prescott, 379 Preston Street, Ottawa, Ont., (613) 232-4217

TECH SESSION **Extended Social at the Prescott Hotel with Free Square Pizza**

THEME: **History/Membership**

SPEAKER: **ASHRAE OVC History**
"Meet and Greet"

OVERVIEW: Enjoy the evening while you meet and greet colleagues and new members, and view some of the various achievements experienced by our Chapter predecessors.

Menu

Salad to start, and main is a choice of lasagna, chicken parmesan, or the famous meatball sandwich. Desert is pastries, coffee and tea.

Chapter Members: \$30.00 Guests: \$45.00



Belnor
Engineering Inc.
Innovative central solutions

David Fanset
ACCOUNT EXECUTIVE

Ottawa Office
1501 Carling Ave., Unit B
Ottawa, ON K1Z 7M1
Tel: (613) 729-6960 Fax: (613) 729-2690
e-mail: dlfanset@belnor.com

Head Office
286 Atwell Drive, Unit 7
Toronto, ON Canada M9W 5R2
Tel: (416) 213-0889 Fax: (416) 213-1687



BRECK-MAR
Heating, Ventilation, Air Conditioning, VSD's & Humidification

Doug P. Breckenridge, P.Eng.

877 Boyd Avenue, Ottawa, ON K2A 2E2
Tel.: (613) 728-0060 • Fax: (613) 725-2637
doug@breck-mar.com



THE CAPITAL GROUP
Capital Air
CA Mechanical
CA Electric

THE CAPITAL GROUP
KEN BOYD
PRESIDENT

9 Antares Drive, Ottawa, ON K2E 7V5
Tel.: (613) 228-0140 • Fax: (613) 228-8804
Web Site: www.capitalgroup.ca • E-mail: kboyd@capitalgroup.ca

President &
CRC Delegate



President's Message

By Robert Lefebvre
P.Eng., LEED AP
2007-2008 OVC President

Welcome to the start of another great season of ASHRAE. We have some great programs lined up for this year. Our program chair Jeff Jarvis and the rest of the program committee have been hard at work this summer to make sure we have our programs all set for the season. I encourage everyone to have a look at the program on the chapter's website (http://www.ashrae.ottawa.on.ca/ashraeoc_meetings.shtml) and mark the dates in your calendars.

Of particular note is the Life Cycle Costing seminar being held on October 16th. I attended this seminar a couple of years ago and found it to be of great value. All of our chapter members should have received an e-mail with the details of the seminar. If you have misplaced or did not receive the e-mail, you can find the details on the chapter website (http://www.ashrae.ottawa.on.ca/ashraeoc_meetings/20071016/LCC%20Seminar%20and%20Agenda.pdf). Don't wait to register as we are limited to a maximum of 25 attendees.

It is always great when our chapter and its membership excel beyond the limits of our local chapter. A couple of recent examples are Gemma Kerr and Rod Potter. Gemma was recently quoted in an ASHRAE society article on Photocatalytic Oxidization Technology. You can read the article on the society website (<http://www.ashrae.org/pressroom/detail/16435>). At the Chapters Regional Conference for Region II in August, the Ottawa Valley Chapter's history webpage created by Rod Potter was the envy of all the other chapter history chairs and was suggested to be used as a model for the other chapters. Well done, Gemma and Rod!

You know, we have a great ASHRAE chapter. Over the past 55 years, our members have tirelessly volunteered their time to manage, support, develop and lead our chapter. Without these volunteers, our chapter and dare I say ASHRAE, would not exist. As a non-profit organization, ASHRAE serves a noble purpose to advance the arts and sciences of HVAC&R, and our chapter supports this through the presentations, technical sessions, tours and articles we provide. However, our chapter meetings are more than a means to disseminate information. Our chapter meetings give our members an opportunity to meet with a diverse cross section of our industry in an atmosphere that fosters friendship and camaraderie.

In this spirit, I invite you to join me at the Prescott Hotel to celebrate our membership, both past, present and future. The meeting will be dedicated to catching up with old friends and making new ones. There will be no technical presentation; instead a slide show will be displayed throughout the evening showcasing our chapter's history. This should spark some old memories and good conversations. I look forward to seeing you at the Prescott.

Yours very truly,

Robert Lefebvre, P.Eng., LEED AP
ASHRAE Ottawa Valley Chapter
2007-2008 President

John Lowery, P.Eng.
Senior Territory Manager



Carrier Canada Sales and Distribution
1050 Baxter Road
Ottawa, ON K2C 3P1
Tel: 613-820-7810 Ext. 240
Watts: 1-800-551-8885 Ext. 240
Fax: 613-820-9462
Cell: 613-982-9228
E-mail: john.lowery@carrier.utc.com

AIR CONDITIONING VENTILATION AIR CLIMATE



100 STAR TOP ROAD
OTTAWA, ONTARIO K1B 3W8

DANNY DILLON
VICE PRESIDENT E-mail: danny@dfo.com

TEL: 741-7731
745-3613
FAX: 741-9962



ELECTRO BREEZE
CANADA

Maurice Lachance
President

5825L Jeanne D'Arc Blvd Suite 301
Ottawa, Ontario K1C 7K2

Residential
Commercial
Institutional

Phone: 613.521.2223 Fax: 613.526.5222
Toll Free: 800.521.8771
Email: info@electrobreezeaircleaners.ca
www.electrobreezeaircleaners.ca

Governor



Theme - History

by Rod Potter

Governor, Chapter Historian, Gopher and Webmaster

Recently I watched a news article which focused on ground zero, the Twin Towers site, and the plight of many relatives of those lost in that tragic event. It seems that now the site is actively being rebuilt, it is no longer considered to be a suitable (or safe) venue for the yearly vigil that people like to hold in remembrance of that fateful day back in 2001. I sympathize with all of these people and find myself wishing that there was something I could do for them.

This being said, I also find myself wondering what most of the people who worked in those towers actually DID for a living. I think the majority of them were involved in some sort of high finance (no pun intended), the likes of which I could never hope to understand. Probably something to do with stocks and bonds and securities and pork bellies, and other people's pork bellies at that. My father-in-law is fond of running down this sort of profession because in his opinion it adds little or nothing to the actual fabric of society – no product is manufactured; other people's money is just whisked around from one hard-drive to another at the whim of speculators. And many people get rich. Other people lose large sums of money (much of it imaginary at best). We, as normal working drones spend our time hoping that some of the guys and gals down there on the trading floor actually have the value of our mutual funds on their minds... And to top it off, no matter what happens in a single trading day, there is always a group of nameless smiling suits clapping with glee as the end-bell is rung.

The other night I was viewing a British film entitled "History Boys", set in 1983 Sheffield, England. The story revolves around a bunch of gifted A-Level (grade 13'ish) students at a grammar school. The setting and time period certainly took me back to my days at a boy's grammar school in England, but the gifted part probably did not apply to me. These young men spend the movie being mentally tuned for a future at Oxford or Cambridge, and they are SO gifted that if someone recites a bit of poetry, they each know who wrote it. And they can tell you in a dull-manner exactly what caused the Second World War. At around the same time, I was being mentally tuned for a future in the HVAC field, and just like then, I still have no appreciation for poetry.

This leads me to wonder about whether what we engineering types do "adds to the fabric of society". I am not really qualified to judge whether the money-movers do something worthwhile, but I have reason to believe that many of us involved with ASHRAE, our electrical counterparts, and (dare I say it) some of the architects out there, have much to be proud of. We might not be directly involved with the creation of a product. However in my short career to date I have been directly involved with the design of mechanical systems for hospitals, research laboratories, retirement residences, and breweries (could not resist that one), all of which add a great deal to society. It gives me great happiness to know that I have worked on this type of project, and all of us can go through life with the knowledge that our efforts have aided in the creation of (often) life-saving buildings.

(cont...)



GENIVAR ONTARIO INC. 15 Fitzgerald Road, Suite 100
Nepean, Ontario K2H 9G1 CANADA
Tel: (613) 829-2800
Fax: (613) 829-8299
www.genivar.com



**Goodkey, Weedmark
& Associates Limited**
Consulting Engineers

Ross J. McIntyre, P.Eng.
Principal, Designated Consultant
Mechanical Engineer

1749 Woodward Drive, Ottawa, Ontario K2C 0P9 Canada
Telephone: 613-727-5111 Fax: 613-727-5115
Email: rossmc@gwal.com



**HITS
ENGINEERING LTD**

Rod Lancefield, P.Eng.
Branch Manager

889 Lady Ellen Place, Ottawa, Ontario K1Z 5L3
Tel: (613) 728-7400 Cell: (613) 851-1997 Fax: (613) 728-8032
Email: rodl@hitseng.com Toll Free 1-888-280-8544

At the upcoming September meeting at the Prescott, the theme will be History, and we are planning to have a slideshow running which will display some of the famous faces ASHRAE Ottawa can call its own. The mind boggles at the number of projects the people on display were involved with. We can take it for granted that a large amount of those projects were more complicated than your average office complex. During the evening, take the time to look into the faces of our predecessors, and take pride in the knowledge that you are working in an environment that has been honed by many years of dedicated engineering, by these men and women. We are all privileged to have their legacy behind us, and the opportunity to continue working hard in this healthy economy.

I look forward to seeing you all on September 18th.

Roderic Potter
Roddars CAS



Advertisement

For the latest product and marketing offerings from Society, download this PDF file:

http://www.ashrae.ottawa.on.ca/ashraeoc_communique/ASHRAE_Marketing/200709.pdf



FRANK JEFFERIES, P.ENG.
OPERATIONS MANAGER

106 COLONNADE RD. N.
SUITE 200
OTTAWA, ON K2E 7L6

PHONE: 613-224-7500
TOLL FREE: 888-283-7267
FAX: 613-224-3726
JEFFERIES@AMERESCO.COM



Douglas S. Walkinshaw, Ph.D., P.E.
Indoor air quality investigations
Engineered environmental solutions

Indoor Air Technologies Inc.
www.indoorair.ca

2344 Haddington Crescent, Ottawa, ON K1H 8J4
2386 Rte 224, Stn Main, North Rustico, PE C0A 1X0
1201 N. Market St. 18th Flr., Wilmington, DE 19801
Tel 613 731 2569; 800 568 5892; 902 964-2477
Cell 613 299 9269; Fax 613 737 4280
Email dsw@indoorair.ca



REGULAR CANADA INC.
170, Laurier Avenue West, suite 714
Ottawa (Ontario)
Canada K1P 5V5
tel.: (613) 565-2129
fax: (613) 565-8895

Stéphan Riffault, P.Eng.
Sales Engineer
sriffault@regular.com



Membership

by Christine Kemp
2007-2008 OVC Membership Promotion Chair

Welcome back! I hope you all had a great summer.

Now that September is here, it's time to get back into our routines. Holidays are over, kids are back to school and we are back to ASHRAE meetings.

It will be nice to see familiar faces again, but I also expect to see some new ones. Our first meeting of the year is an excellent way for new members to get to know us in a casual and comfortable setting. We look forward to meeting you.

See you at the Prescott Hotel on September 18, 2007.

Thanks,
Christine Kemp
ASHRAE Ottawa Valley Chapter
Membership Chair Person



Chapters Regional Conference Summary

August 23-25, 2007
By Robert Lefebvre
P.Eng., LEED AP
2007-2008 OVC President

The Region II Chapters Regional Conference (CRC) was hosted by the New Brunswick/PEI chapter and was held in Moncton, New Brunswick from August 23rd to August 25th. The Ottawa Valley Chapter was represented by Robert Lefebvre - Delegate, Francois Belair - Alternate, Glenn MacLean - Research Promotion Chair, Christine Kemp - Membership Promotion Chair, Stephen Lynch - Student Activities Chair, Rod Potter - History Chair and Jeff Jarvis - Program Chair. The Ottawa Valley Chapter was also represented at the Regional level by Joel Primeau - Student Activities RVC and Jay Jayaraman - Awards and Nominations Assistant RVC.

As with past CRCs, the Regional business was attended to by all the chapter, regional and society delegates. Workshops were presented by the RVCs to the chapter chairs on how to improve the operation of the chapter and better extend services to the membership. The Ottawa Valley Chapter was also presented with awards for Presidential Award of Excellence and exceeding our Research Promotion goal by 12%.

Next year's CRC is being hosted by the Montreal Chapter in Montreal. The dates for the 2008 CRC are August 22, 23 & 24, 2008.

Robert Lefebvre, P.Eng., LEED AP
ASHRAE Ottawa Valley Chapter
2007-2008 President

HUGH WILLIAMSON ASSOCIATES INC.
Acoustics, Vibration and Noise Control

Hugh Williamson, Ph.D., P.Eng.
205 Bolton Street, Suite 406, Ottawa, ON, K1N 1K7

Phone: (613) 747 0983
Fax: (613) 747 4514
hughwilliamson@hwacoustics.ca
http://www.hwacoustics.ca

InAIR Environmental Ltd.

Lan Chi Nguyen Thi, P.Eng.
Partner

1390 Prince of Wales Dr., Suite 503
Ottawa, Ontario K2C 3N6
Phone 613.224.3863
Fax 613.224.2561
lanchi.nguyen@inairenvironmental.ca
www.inairenvironmental.ca

Mould & Flood Remediation
Drinking Water Testing
Training Courses
IAQ Surveys

InAIR
Environmental Ltd.

Kevin Courneya P.Eng., LEED® AP
Principal

Stantec Consulting
1505 Laperriere Avenue
Ottawa ON K1Z 7T1
Tel: (613) 725-5570
Fax: (613) 722-2799
Cell: (613) 296-7147
kcourneya@stantec.com
stantec.com



Committee
Chair



ASHRAE Student Activities

By Stephen Lynch reporting from CRC Moncton
2007-2008 OVC Student Activities Chair

As a new academic year starts we have new opportunities for student members and involvement. This year's focus for Region II is spreading the ASHRAE cheer to K-12 schools and to promote the design competitions in our post secondary institutions. In the K-12 focus we are looking for volunteers to take some time to visit class rooms and/or provide support to teachers in promoting engineering with and ASHRAE flare. We are not trying to teach them CARNOT cycle. In the Design Competition focus we are concentrating on the Engineering and Architecture schools to make it part of their students 4th year project. I am hoping I can draw upon people's abilities to meet our region goals and create a sense of community among our younger members.

This year, as with most years, we are encouraging students from Carleton, University of Ottawa, Algonquin, CEGEP de L'Outaouais, and La Cite Collegiale to join us at our monthly meetings. We are hosting two student nights (October and January) and continue to encourage students to attend whenever their schedule permits.

With the cost of education, and beer, rising we try to do our best to help our fine new talent attend our meetings. Typically students are charged \$15 per meal but I am sure they would greatly appreciated if you could support there extracurricular efforts. Pick one out for the night in our 'Catch and Release' program or encourage one for the year in our 'Adopt a Student' program. Whatever donation you can make would be greatly appreciated. If your company or you personally are interested in sponsoring a student for October and/or January's meeting or future meetings, please contact our Treasurer, Jason Alexander jalexander@gwal.com, or see him at the check-in table at our monthly meetings. As a way of recognizing our members for their contributions we will issue 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.

Thank you for your support,

Stephen Lynch

Check out ASHRAE's latest Student Activities newsletter [here!](http://images.ashrae.biz/html_mailings/August2007StudentActivitiesNewsletter.pdf) Enjoy
(http://images.ashrae.biz/html_mailings/August2007StudentActivitiesNewsletter.pdf)



Membership Renewal

By Robert Lefebvre
P.Eng., LEED AP
2007-2008 OVC President

In the Fall of 2006, ASHRAE society replaced their database software. To say there have been some glitches in the new system is an understatement. Fortunately, most of the issues have had to do with chapter operations and have not directly affected the membership.

One problem that does remain is on-line membership renewal for Ontario members. When you verify or update your member information as part of the membership renewal process, the system automatically transfers you to the Toronto chapter. I have spoken to ASHRAE society and they are aware of the problem and are working on it, but as yet do not have a solution.

At this time, I am strongly recommending to all our chapter membership that you **do not renew your memberships on-line**. You can renew your membership by either returning your renewal form by mail or by calling toll free at 1-800-5-ASHRAE (1-800-527-4723).



Table Top Display

By Glenn MacLean
P.Eng.
2007-2008 OVC Past President

Engineered Air is proud to present the Table Top Display for the September Meeting:



Square Pizza Appetizers will be offered up to those eager enough to show up early.

Meet you at the Prescott...

Glenn MacLean, P.Eng.

knauf

Steve Clayman
Agent for Knaf Fiber Glass GmbH

Knaf Fiber Glass GmbH
100 University Avenue, Suite 702 Box 128, Toronto, Ontario M5J 1V6
Direct: (416) 593-4322, Fax: (416) 586-0481
Voice: (800) 825-4434 *8216, E-Mail: steve.clayman@knauffberglass.com
www.knauffberglass.com

**TOTAL
HVAC**

Adam Beales
Principal

Total HVAC Inc.
29 Cicopetra Drive
Nepean, Ontario
Canada, K2G 0B6

Tel: (613) 723-4611
Fax: (613) 723-4677
Res: (613) 825-7319
Cell: (613) 223-2112
Email: adamb@totalhvac.com

Longhill Energy

Chris Harrison
Engineered Sales

chrish@longhill.ca
www.longhill.ca
Phone: 613-226-3856
Fax: 613-226-2715
15-111 Capella Court, Ottawa, Ontario K2E 7X1

The Energy Conservation People

President &
CRC Delegate



News Update

By Robert Lefebvre
P.Eng., LEED AP
2007-2008 OVC President

Technical News:

ASHRAE Strives to Provide Advanced Energy Savings by 2010

August 6, 2007, ATLANTA

Declaring that the building industry must improve building energy efficiency, ASHRAE is striving to increase building energy efficiency in Standard 90.1.

ASHRAE is looking to achieve 30 percent energy savings in the 2010 standard compared to ANSI/ASHRAE/IESNA Standard 90.1-2004, Energy Standard for Buildings Except Low-Rise Residential Buildings.

ASHRAE is committed to continually improving building energy performance. The savings are part of ASHRAE's goal to achieve market-viable net-zero energy buildings by 2030.

"Building energy standards and codes play a vital role in helping reduce future U.S. building energy consumption by setting the minimum energy efficiency requirements that all new and renovated buildings must meet," Kent Peterson, P.E., ASHRAE president, said. "But we must improve minimum building energy efficiency standards if we are to truly improve energy performance of the built environment. As such, ASHRAE is making a more aggressive effort to improve the minimum energy efficiency of new building construction not only in the United States but throughout the world."

The plan to achieve 30 percent savings in 2010 is based on an average for all building types and climate weighted energy cost savings and may not be achieved for every building in every climate. Other elements of the plan are:

- Estimates of energy savings improvement be based on the total annual energy cost of the facility

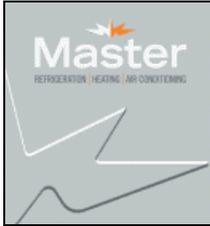
- Energy savings estimated on ongoing basis

- Improvement calculations made in conjunction with technical resources made available by the Department of Energy.

Any changes to Standard 90.1 will continue to follow ASHRAE's standards development process, which is approved by the American National Standards Institute and based on achieving consensus.

Those interested in contributing ideas on the advanced energy savings can submit comments via www.ashrae.org/technology/page/812.

(cont...)



Master
REFRIGERATION HEATING AIR CONDITIONING

Francois Belair, P. Eng.
Sales Engineer
Ingénieur aux ventes
fbelair@master.ca

The Master Group L.P.
1250, Old Innes Road, Unit 522
Ottawa (Ontario)
K1B 5L3

T 613.741.4455
C 613.794.4872
E 613.850.3793
1 800.627.4768

www.master.ca



BAXTEC
Mechanical Services

Air Conditioning, Refrigeration,
Heating, Boilers, Ventilation,
Energy Management

MARK CSIFFARY P. ENG.
President

2450 Lancaster Road, Unit 29 • Ottawa, Ontario K1B 5N3
TEL: (613) 738-7450 FAX: (613) 738-2973
E-MAIL: mark@baxtec.com www.baxtec.com



METHOT
THE HEATING SPECIALIST

www.method.ca

Michael McNamara, P. Eng.
Eastern Sales Manager Ext. 27
michael.mcnamara@method.ca

Tel: (905) 850-3037
Fax: (905) 850-4011
Tel: 1-800-638-4682
Cell: (416) 986-7822

QUEBEC **ONTARIO**

1040, boul. Michele-Bohec, Site101 2, Director Court, Suite 107
Blainville, Quebec J7C 5E2 Woodbridge, Ontario L4L 3Z5

Sustainability News:

ADDING UP RENEWABLE ENERGY: Do the Benefits of Renewable Energy Sources Stack up?

August 13, 2007

Do the overall efficiencies of renewable energy sources, such as wind, solar, and geothermal add up in terms of their complete life cycle from materials sourcing, manufacture, running, and decommissioning" Researchers in Greece have carried out a life cycle assessment to find the answer.

Increasing energy consumption and a growing world population implies shrinking reserves of fossil fuels. While the use of fossil fuels brings with it the problem of carbon dioxide emissions and climate change. Our continued dependence on fossil fuels coupled with the pressing global issue of climate change has pushed the concept of renewable energy sources to the top of the agenda.

In looking for alternative energy supplies, there is more to simply adding up the outputs, according to Christopher Koroneos and Yanni Koroneos of the Laboratory of Heat Transfer and Environmental Engineering, at the Aristotle University of Thessaloniki, Greece. They argue that a whole life cycle assessment of any environmentally friendly energy supply must be carried out to ensure its green credentials are valid.

Writing in Inderscience's International Journal of Global Energy Issues, the researchers point out that land use and materials employed are just two aspects of renewable energy development that can have an adverse impact on the otherwise positive environmental picture.

There are three viable renewable energy resources, say the researchers - solar energy, wind power and geothermal energy. They have applied the techniques of life cycle assessment (LCA) to each in order to determine the total environmental impact and to compare this with the effects of equivalent energy release from fossil fuels.

The LCA approach allows an assessment to be made of the flow of material and energy used in the construction, operation and ultimate decommissioning of a renewable energy supply. It also takes into account the manufacturing of components, the possible extraction and supply of fuels as well as waste generated in these processes.

The researchers demonstrate that some renewable energy systems based on wind power and geothermal energy do have valid green credentials in electricity production. The efficiency of these systems is comparable over the complete life cycle than the equivalent fossil fuel system. However, the conversion of solar energy to electricity using photovoltaic solar cells is less efficient in terms of materials production, running, and recycling than non-renewable energy. However, economies of scale come into play with solar power and a large enough area of solar cells would outstrip the fossil fuel system. The team also points out that the life cycle pollution of solar systems is much, much lower than any conventional system although thermodynamic efficiency is lower.

"A significant advantage of the use of renewable energy systems," say the researchers, "is that they are environmentally friendly because overall they result in lower dangerous pollutant emissions, this and one other major factor, they are essentially inexhaustible."

This article is based on a news release from Inderscience Publishers



McKee
ENGINEERING

Jim Siciliano, P.Eng.
Partner/Mechanical Section Head
Jim.Siciliano@mckeeottawa.ca

1785 Woodward Drive
Ottawa, ON K2C 0P9
CANADA
Tel.: (613) 723-9585 x109
Fax: (613) 723-9584
www.mckeeottawa.ca



100-3740 Richmond Road
Ottawa, Ontario K2H 5B9

Tel: (613) 596-6454

Patrick St. Onge, P.Eng, LEED AP
Project Manager – Mechanical Engineer

www.WBBEngineering.com
patrick.stonge@WBBEngineering.com



Siemens Canada Limited

2435 Holly Lane
Ottawa, Ontario
K1V 7P2 / Canada
Tel: (613) 733-9781 ext. 232
Fax: (613) 737-4985
Toll Free: (800) 525-3478
E-Mail: jack.teevens@siemens.com
Please visit: www.siemens.ca

Jack Teevens
Region General Manager

Committee
Chair



ASHRAE Ottawa Valley Chapter Technology Awards 2007

By Robert Kilpatrick
2007-2008 TEGA Committee

1st Place-New Commercial Buildings Sylvain Chenier – R J Mckee Engineering Ltd 343 Preston St. (Adobe Tower)

343 Preston is an 11-storey, 21,000 square metre office building project.

Some of the energy efficiency features include high efficiency chillers installed in series, variable speed pumping, and free cooling using the cooling tower, and a dry cooler.

After normal hours, the chillers are shut down but the tenant spaces have their own water cooled units that use the chilled water loop and the cooling tower, by means of a heat exchanger, for heat rejection

The heating system uses natural gas boilers, also with variable speed pumping, and radiant and in-floor heating.

Finally, the building employs a BACnet compatible DDC automation system.

Congratulations Sylvain !

2nd Place-New Commercial Buildings Frank Bann - Goodkey Weedmark & Assoc. Ltd Canadian Association of University Teachers

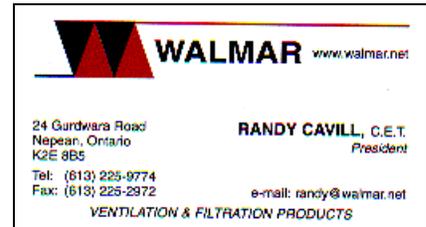
This project is a 2-storey, office building located in Ottawa

Some of the features of the mechanical design include:

- condensing domestic hot water heaters
- dedicated energy wheel heat recovery AHUs with exhaust air from a print area used to preheat the make-up air
- heating plant consisting of multiple small condensing boilers using a low loop temperature; and in-slab perimeter heating used for trim and comfort heating in the office areas

The project was awarded funding under the NRCan Commercial Building Incentive Program (CBIP) and achieved 35% better results than a Model National Energy Code reference building, translating to savings of over \$20k per year.

Congratulations Frank !



1st Place-New Institutional Buildings Chris Frauley – R J McKee Engineering Ltd.

Vars Fire Station

The Vars fire station is a 743 sq. m. multi-functional facility which of course operates on a full-time basis

Some of the features of the mechanical design include:

- high efficiency R-410 split DX systems
- a 2-speed energy recovery ventilator for building exhaust and ventilation air
- heating plant consisting of a single high efficiency condensing boiler using a multizone in-floor radiant heating system

This project was significant in that it was the first City of Ottawa LEED certified building.

Congratulations Chris !

2nd Place- New Institutional Buildings Sylvain Chenier – R J McKee Engineering Ltd

Barrhaven Elementary School

This project is a new 2-storey, 5300 sq. m. French Catholic Board elementary school located in Barrhaven, consisting of classrooms, computer rooms, a gym, washrooms and other misc. use areas

Some of the key energy efficiency measures of the facility include:

- VAV rooftop units with energy recovery wheel and free cooling economizer, medium pressure ductwork distribution
- fan powered boxes within the classrooms controlled by a motion sensor so they only operate when the room is occupied
- ventilation air controlled by a CO₂ monitoring system

Congratulations once again Sylvain !



Golf...Golf...Golf

by Cathy Godin
Chapter President 2004-2005

ASHRAE OTTAWA VALLEY CHAPTER – 2007 GOLF TOURNAMENT

As it is every year, the ASHRAE Annual Golf Tournament is sold out!

This year's event is to be held on September 27, 2007

Loch March Golf Club, 1755 Old Carp Rd., Kanata

12:30 p.m. shotgun start – PLEASE BE PUNCTUAL

Four-person scramble format (best-ball)

Dinner to follow

Prize raffle for the benefit of ASHRAE Research Canada

If you or your firm has a prize to donate or would like to sponsor a hole for \$200 including signage, it would be highly appreciated. Please contact me by telephone 613-748-7277 or email cathygodin@bellnet.ca

See you there! Cathy Godin.





Draft of 2006-2007 Financial Statement

by Imtee Baksh

ASHRAE Ottawa Valley Chapter Balance Statement

JULY 1, 2006 - AUGUST 1, 2007

CURRENT VERSION NOT AUDITED

Item	Item Description	Budget				Actual			
		Quantity	Unit Price	Sub-Total	Total	Quantity	Unit Price	Sub-Total	Total
REVENUES									
Meals	Corporate Meal Plan	10	\$150.00	\$1,500.00		10	\$150.00	\$1,500.00	
	Individual Meal Plan	35	\$130.00	\$4,550.00		34	\$130.00	\$4,420.00	
	Meals Purchased at the Door	100	\$25.00	\$2,500.00		N/A	N/A	\$5,540.00	
	Total Meals								\$11,460.00
Membership Dues	Membership Dues	120	\$50.00	\$6,000.00		118	\$50.00	\$5,900.00	
	Student Chapter Dues	0	\$0.00	\$0.00		0	\$0.00	\$0.00	
	Total Membership Dues			\$6,000.00					\$5,900.00
Seminars	Seminars	0	\$0.00	\$0.00	\$0.00	0	\$0.00	\$0.00	
	Career Fair	15	\$200.00	\$3,000.00		12	\$200.00	\$2,400.00	
	Total Seminars			\$3,000.00					\$2,400.00
Special Events	Golf Tournament	1	\$20,000.00	\$20,000.00		1	\$20,044.18	\$20,044.18	
	Curling Bonspiel	16	\$360.00	\$5,760.00		16	\$360.00	\$5,760.00	
	Total Special Events			\$25,760.00					\$25,804.18
Miscellaneous	Business Card Ads	25	\$225.00	\$5,625.00		27	\$225.00	\$6,075.00	
	Table Top Displays	16	\$200.00	\$3,200.00		14.5	\$200.00	\$2,900.00	
	Student Affairs Raffle Tickets	0	\$0.00	\$0.00		0	\$0.00	\$0.00	
	Student Meal Sponsors	Part of Meal Purchased at door amount							
	CRC Reimbursement	1	\$1,000.00	\$1,000.00		0	\$0.00	\$0.00	
	Total Miscellaneous Revenues			\$9,825.00					\$8,975.00
TOTAL REVENUE					\$53,135.00				\$54,539.18
Annual Chapter Expenses	Chapter PO Box	1	\$117.00	\$117.00		2	\$120.53	\$241.06	
	President's Pin	1	\$200.00	\$200.00		expense carried to 2007 year			
	Award Plaques	1	\$100.00	\$100.00		0	\$0.00	\$0.00	
	Other	1	\$0.00	\$0.00		0	\$0.00	\$0.00	
	Total Chapter Expenses			\$417.00					\$241.06
Meals	Meals for Attendees	650	\$28.40	\$18,460.00			\$15,259.59	\$15,259.59	
	Hall Rental for September Meeting	0	\$0.00	\$0.00			\$1,971.05	\$1,971.05	
	Total Meals Cost			\$18,460.00					\$17,230.64
CRC 2005	CRC Registration	1	\$4,000.00	\$4,000.00		0	\$1,550.00	\$1,550.00	
	CRC Contribution	1	\$1,300.00	\$1,300.00		0	\$970.00	\$970.00	
	Hotel Accommodations	1	\$0.00	\$0.00		0	\$2,051.53	\$2,051.53	
	Travel	1	\$500.00	\$500.00		0	\$0.00	\$0.00	
	Miscellaneous	1	\$300.00	\$300.00		1	\$0.00	\$0.00	
	Total CRC Cost			\$6,100.00					\$4,471.53
Special Events	Golf Tournament	1	\$19,000.00	\$19,000.00		1	\$18,249.23	\$18,249.23	
	Curling Bonspiel	1	\$3,300.00	\$3,300.00		1	\$5,123.08	\$5,123.08	
	Total Special Events Cost			\$22,300.00					\$23,372.31
Chapter Committees	Homepage	1	\$435.00	\$435.00		1	\$586.41	\$586.41	
	Student Affairs	1	\$1,500.00	\$1,500.00		1	\$1,600.00	\$1,600.00	
	TEGA	1	\$500.00	\$500.00		1	\$0.00	\$0.00	
	Membership	1	\$500.00	\$500.00		1	\$45.79	\$45.79	
	Roster	1	\$1,300.00	\$1,300.00		1	\$615.60	\$615.60	
	Program	1	\$1,500.00	\$1,500.00		1	\$558.55	\$558.57	
	Total Committee Costs			\$5,735.00					\$3,406.37
Miscellaneous	Bank Charges	1	\$50.00	\$50.00		1	\$38.00	\$38.00	
	BOG Meetings	1	\$400.00	\$400.00					
	Photography	1	\$550.00	\$550.00		1	\$1,193.55	\$1,193.55	
	Office Supplies	1	\$100.00	\$100.00		1	\$42.28	\$42.28	
	New Equipment	1	\$0.00	\$0.00		1	\$0.00	\$0.00	
	MCA Golf Tournament	1	\$500.00	\$500.00		0	\$0.00	\$0.00	
	ASPE Curling Tournament	1	\$250.00	\$250.00		1			
	Ray Young Candy Bowl Candy	8	\$5.00	\$40.00		1	\$0.00	\$0.00	
	GST Adjustment	1	\$3,500.00	\$3,500.00		1	\$3,318.42	\$3,318.42	
	Total Miscellaneous Costs			\$5,390.00					\$4,592.25
TOTAL EXPENSES					\$58,402.00				\$53,314.16
NET PROFIT / LOSS									\$1,225.02

John Lowery, PEng.
Senior Territory Manager



Carrier Canada Sales and Distribution
1050 Baxter Road
Ottawa, ON K2C 3P1
Tel: 613-820-7810 Ext. 240
Whats: 1-800-551-8385 Ext. 240
Fax: 613-820-9462
Cell: 613-862-9228
E-mail: john.lowery@carrier.utc.com



Marline Ménard, B.Sc.
Regional Manager
marline.menard@sanitec.com

Vortisand® High Efficiency Water Filtration Systems www.vortisand.com
Head Office: 4220 Bois-Franc, Saint-Laurent, QC H4S 1A7 • Tel: (514) 335-2200 x227 • Fax: (514) 335-2295
US Office: 85 Sequent St. Holyoke, MA 01041 Toll Free • 1-888-876-9655




Down to 0.45 micron

AIR CONDITIONING VENTILATION AIR CLIMATE



Duff Mechanical Limited
1500 STAR TOP ROAD
OTTAWA, ONTARIO K1B 3W8

DANNY DILLON
VICE PRESIDENT

E-mail: danny@dfo.com

TEL: 741-7731
745-3613
FAX: 741-9882

Obituary

George A. Hearnden; 1930-2007; Life Member of ASHRAE; joined ASHAE in 1958 and was Chair of the Ottawa Valley Chapter Education Committee in 1967

Swell Guy



Business Card Ads

by Rod Lancefield

You can support your chapter and promote your business by placing your business card in the Capital Communiqué. It will appear in the electronic and printed version as well as on the Chapter website.

Cost is \$225.00 for the year; contact Rod Lancefield, rod1@htseng.com, (613) 728-7400.

*** end of Communiqué ***



Your card here!

