



Capital Communiqué

2004 –2005

President
Cathy Godin

President Elect
Jay Doshi

Secretary
Glenn MacLean

Treasurer
Rob Lefebvre

Past President
Jason MacMurdo

Governors
Mike Derouin
Tony Doyon
Gary Hartmann
Stewart Woermke

Kingston Section
Vacant

COMMITTEES
Audit
Glenn MacLean

Resource Prom.
Jason MacMurdo

Membership
Heather Garner

Program
Chris Workman

Student Activities
Chris Fudge

TEGA
Niraj Chandra

Chapter Historian
Joel Primeau

Special Events
Chris Healey

Communiqué
Rod Potter

Publicity
Cynthia Gillis

Table Top
Gary Hartmann

Telephone
Cathy Godin

Greeters
Ray Young

Roster
Kevin Toll

Webmaster
Rod Potter

Al Oakes Award
Jason MacMurdo

Nominations
David Eastwood

CRC Action
Cathy Godin

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

November 2004

EVENING PROGRAM

- DATE:** Tuesday November 16, 2004. Social: 17:30 Dinner: 18:30 Program: 20:00
- THEME:** **Research**
- PROGRAM:** **Variable Frequency Drives**
Applying today's Drives in the HVAC Business
- SPEAKER:** Ken Fonstad BSc MSc
- OVERVIEW:** Danfoss Graham has been marketed in the Ottawa area since the early 1990's. With the reliability of drives now on the market and energy prices on a constant rise, more buildings are being retrofitted and most new buildings have drives on some of the systems. Today Danfoss are the choice of the Ottawa Hospital along with many other end users.
- SPEAKER BIO:** Ken Fonstad graduated from the University of Wisconsin-Parkside with Bachelor of Science degrees in Physics and Mathematics, and from the University of Wisconsin-Milwaukee with a Master of Science degree in Environmental Engineering.
- Ken taught Physics and Mathematics at Brookfield Central High School, Waukesha County Technical College, and Marquette University, and has been a visiting lecturer at the Milwaukee School of Engineering. He has worked as the Marketing Manager for Shimpo Drives, a manufacturer of industrial adjustable speed drives, speed reducers, and related control equipment. Ken founded *Technical Assistance*, a company that provides technical support services, such as custom technical training programs, technical writing, electronic publishing, and custom computer programming. He presently is the Training Manager for Danfoss Graham in Milwaukee, Wisconsin, and has served as a member of the Danfoss Drives Global Training Team.
- Articles written by Ken have appeared in *Consulting/Specifying Engineer*, *Energy Engineering*, and *Power Transmission Design*.

MENU

Garden salad with Italian vinaigrette
Chicken Kiev with mixed vegetables and roasted potatoes
Tiramisu with coffee/tea

Belnor
Engineering Inc.
innovative control solutions

David Fanset
ACCOUNT EXECUTIVE

Ottawa Office
1501 Carling Ave., Unit 8
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 5E2
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's Message

by Cathy Godin

I can't help but make the observation that, even with the assistance of spell-check, wizards and various other word processing tools, the English language is butchered daily both in written form and in dialogue. The latter can offend the ears. Not just by my teenagers, who think nothing of saying "the thing-y is, like, over by the thing, ya know, the thing! Oh, whatever" – I mean by educated people, ones whom I expect to be more articulate. Articulate, as in "endowed with the power of speech", not articulated, as in buses with joints. And vocabulary is the most maligned.

As a kid, I had access to Reader's Digest. Hundreds of Reader's Digests that had somehow accumulated at my Grandparents' home to be read and reread by visitors and campers and anyone visiting the indoor outhouse (an outdoor comfort station equipped with a flush toilet that kept us all off of Grandma's clean floor). The short features and jokes were my immediate Reader's Digest destination, "Humour in Uniform", "Laughter, The Best Medicine", but after exhausting these, it was always fun to visit "It Pays To Enrich Your Word Power". Any current subscriber can tell you that this feature is now known only as "Word Power", but it is still an active monthly installment.

"Word Power" did enrich my vocabulary. I can use serendipity in a sentence and recently did so, much to the surprise of a colleague. She shared my low opinion of missing and misused vocabulary skills and complimented me by saying that anyone who could use serendipity in a sentence was okay in her books. A general contractor told me he had a tumultuous morning – man, I could sympathize, and he used the word in perfect context and form. It was very exciting; it aroused a strong feeling!

The number of words that the average Anglophone has in their vocabulary is between 12,000 and 20,000 depending on the education and background of the individual, but did you know that Shakespeare's vocabulary was in excess of 30,000 words? That's only 5% of what's available. What's happening to all of the unused words? Are they sitting out there rusting from misuse? Are they fodder for crossword puzzle authors? Will Scrabble players usurp our world? I can't be the only one that feels this way. A quick internet search revealed dozens of self-help sites and programs that make claims such as "instant credibility and persuasive powers" and "a powerful vocabulary can catapult you among the top income earners in the world!" Heck, even my old friends from "Word Power" are on the bandwagon, with a 6-CD collection of tools narrated by Efreim Zimbalist Jr. (Thank God Efreim's working again; I thought he'd gone down in Airport '75.)

So I challenge you, learn a new word this month and try it out. Pick one that's atypical for our industry lexicon; expand your horizons! Do not ignore the importance of correct pronunciation. The word will be wasted if no one understands what you're talking about. Use it in a sentence, a letter or an email. Humour me, parlay this simple exercise into a more refined, more cultivated vocabulary and join the truly erudite ranks. I'll be all-ears on November 16th.

Sincerely,
Cathy Godin,
President (2004-2005)
ASHRAE – Ottawa Valley Chapter

John P. Lowery, P.Eng.
Senior Territory Manager



Carrier Canada
1350 Baxter Road, Unit B
Ottawa, Ontario K1C 3P1
613-820-7810, Ext. 240
Writts: 1-800-581-8385, Ext. 240
Fax: 613-820-9462
Internet: john.lowery@caneruto.com

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



ELECTRO BREEZE Canada Inc.

Maurice Lachance
President

5929L Jeanne D'Arc Blvd, Suite 301, Ottawa Ontario K1C 7K2
Phone: 613-521-2223 • Fax: 613-526-6222 • Pager: (613) 566-8245
Email: info@electrobreezeaircleaners.ca www.electrobreezeaircleaners.ca



Theme – Resource Promotion

by Jason MacMurdo

The theme for our November Meeting is *Resource Promotion*. I would like to take this opportunity to thank the members of the OVC who support ASHRAE Research Canada, and look forward to the continued support of our membership in this very important campaign in 2004-2005. The Chapter's goal this year is to raise \$18,500.

Our 2004-2005 Resource Promotion Committee is as follows:

Cathy Godin
Glenn MacLean
Robert Lefebvre
Tony Doyon
Gary Hartmann
Mike Derouin
Joel Primeau
Mike Swayne
Niraj Chandra
Jason MacMurdo

Our Resource Promotion campaign got off to a great start at our OVC Golf Tournament, held this past August at Loch March, where over \$1300 was raised for ASHRAE Research Canada. I look forward to your continued support.

Jason MacMurdo, P.Eng.
Research Promotion Chair 2004-2005

Technical Session - La Contessa Banquet Hall, 4:30pm Sharp, Tuesday November 16, 2004

Daniel Mason – Director of North American Sales, Danfoss Turbocor Compressors Inc., will be presenting information on new compressor technology which combines a frictionless magnetic bearing and high speed turbine process delivering up to 90 tons of cooling with 4:1 Turndown capability in a single compressor...very *cool* stuff.

Dan's primary function is to spearhead Turbocor's sales efforts with original equipment manufacturers, service contractors for retrofits, and key accounts. Turbocor is a leading designer and manufacturer of high efficiency commercial refrigerant compressors.

After graduating with a B.S.M.E. degree from Drexel University in Philadelphia in 1981, Mr. Mason entered the HVAC industry as an air conditioning product design engineer, eventually moving into sales management. To date he has gained over 23 years of experience in the engineering and sales of engineered HVACR products (including high efficiency condensing units, commercial and industrial desiccant dehumidifiers, heat recovery systems, mobile military air conditioners, computer room air conditioning systems, modular high-efficiency heat pumps, and high-grade custom air handlers). This broad experience provides Mr. Mason with the prerequisite technical and applications skills to serve Turbocor's clients well. He is an active member of ASHRAE.



GENIVAR
Mike Swayne, B.Eng., P.Eng.
Partner

GENIVAR ONTARIO INC. 15 Fitzgerald Road, Suite 100
Nepean, Ontario K2H 9G1 CANADA
Tel: (613) 829-2800, ext. 333
Fax: (613) 829-8299
www.genivar.com → mike.swayne@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@gwa.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: rod1@hitseng.com Toll Free 1-888-280-8544



What You Missed Tuesday, October 19, 2004 Meeting by Glenn MacLean

In a pre-meeting Technical session, Joel Primeau provided an update on ASHRAE Standard 62, and in particular a focus on Addendum 62n and new ventilation methods for buildings.

The theme of the October meeting was TEGA/Student Activities and we were honoured to have our RVC for Student Activities, Nicolas Lemire in attendance to help present Carleton University's banner and charter as a new student chapter. Congratulations Carleton University!

On the TEGA front, Niraj Chandra spoke to the chapter about his goals for information transfer with government agencies, and the possibility of expanding the resources available at the chapter library. He also encouraged members to participate in the Technical Awards program and requested a volunteer step forward to take over the chairperson duties for these awards.

The evening program was on Renewable Energy Technologies and was presented by Robin Hutcheson of *Arborus Consulting*. Robin's talk focused primarily on Photovoltaics and Solar Thermal options for power and heat generation.



Chris Fudge
Student Activities Chair



Carleton University
New Student Chapter



Nicolas Lemire
RVC Student Activities



Jason MacMurdo
(boy this is good)



Niraj Chandra
TEGA Chair



Robert Levebvre
Treasurer and all-round swell guy



HUGH WILLIAMSON ASSOCIATES INC.
Acoustics, Vibration and Noise Control

Hugh Williamson, Ph.D., P.Eng.
12 Maple Lane, Ottawa, ON, K1M 1G7

Phone: (613) 747 0983
Fax: (613) 747 4514
hughwilliamson@sympatico.ca
http://www3.sympatico.ca/hughwilliamson

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



www.keeneng.com

James S. Mills, P.Eng., P.E.
Associate
LEED® Accredited Professional

Keen Engineering Co. Ltd.
253 St. Patrick Street
Ottawa, Ontario K1N 3K4

Tel: 613.225.8414 Fax: 613.241.6151
Cell: 613.447.2615
E-mail: jim.mills@keen.ca




Membership – Welcome New Members

by Heather Garner

Our Chapter would like to welcome the following two new members this month:

Seifuddin Morbiwalla
Charles Virone (student)



Table Top Display

by Gary Hartmann



Breck-Mar Sales & service presents the Danfoss VLT-6000 adjustable frequency drive.

Danfoss Drives are designed for the unique needs of HVAC systems. Danfoss representatives will be showing their drives and will be available for questions on this latest version of drives. Danfoss's Ken Fonstad will also be the Speaker for the after dinner discussions.



Steve Clayman
Agent for Knauf Fiber Glass GmbH

Knauf Fiber Glass GmbH
100 University Avenue, Suite 702 Box 128, Toronto, Ontario M5J1V6
Direct: (416) 593-4322 Fax: (416) 586-6481
Voice: (800) 825-4434 *8216, E-Mail: steve.clayman@knauffberglass.com
www.knauffberglass.com

(your card here!)



Longhill Energy Products (Eastern) Ltd.

15 Capella Court, Unit 111
Ottawa, ON K2E 7X1
Tel: (613) 226-3856
Fax: (613) 226-2715
Email: chris@longhillenergy.on.ca

CHRIS HARRISON

the energy conservation people



Tony Doyon, P. Eng.
Applied Systems &
Commercial Equipment
tdoyon@master.ca

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

T 613.741.4455
C 613.293.0452
F 613.741.5393
1 800 627.4768

www.master.ca

(your card here!)



METHOT
THE HEATING SPECIALIST
www.methot.ca

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

Tel.: (905) 850-3037
Fax: (905) 850-8012
Tel.: 1-800-638-6682
Cell: (416) 996-7822

QUEBEC 1060, boul. Michèle-Bohec, Suite 101
Blainville, Québec J7C 5E2

ONTARIO 3, Director Court, Suite 107
Woodstock, Ontario L4L 3Z5



Technology Transfer Committee

by Niraj Chandra

Hi there, and welcome to the Technology Transfer Committee (TTC) of the ASHRAE Ottawa Valley Chapter. TTC has been formed by the merger of TEGA and the Program Committees. My name is Niraj, and I'm the co-chair of the TEGA sub-group. You can contact me at:

niraj.Chandra@pwgsc.gc.ca or niraj_Chandra@hotmail.com.

TEGA stands for Technical, Energy and Government Affairs. The main function of this committee is to facilitate the exchange of information between the Society, the local Chapter, and Government departments.

We have some very exciting goals for this year, and we need your help in achieving them.

Government Activities

This year, we have set ourselves the ambitious task of establishing an ASHRAE Canada office for Government Affairs in Ottawa. This is a unique opportunity for Chapter members to get involved, as the office will be run entirely by volunteers during the initial stages.

If you have an ASHRAE related issue that you want to bring to the Government's attention, contact TEGA. Or better still; get involved by serving on the TEGA Committee.

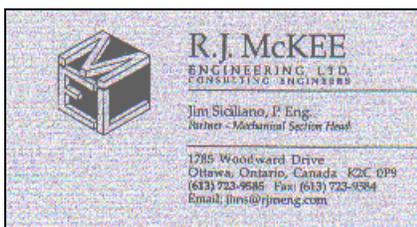
Library

Our Chapter has established a working library at the Ottawa Construction Association office on Bronson Avenue. We are looking for a volunteer to help us take this venture to the next level. Our plans include maintaining a complete set of standards and guidelines for our members' use.

Handbook Reviews

Many of our members are subject matter experts. We need your help in reviewing sections of the Handbook. Our goal this year is to review at least 3 chapters of the handbook in the current year.

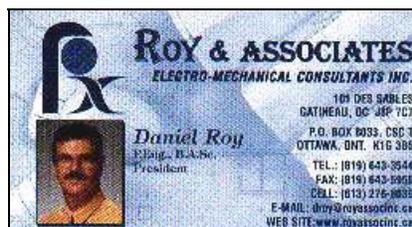
(continued...)



R.J. McKEE
ENGINEERING LTD.
CONSULTING ENGINEERS

Jim Siciliano, P. Eng.
Partner - Mechanical Section Head

1785 Woodward Drive
Ottawa, Ontario, Canada K2C 0P9
(613) 723-9686 Fax: (613) 723-9384
Email: jimsi@rjmeng.com



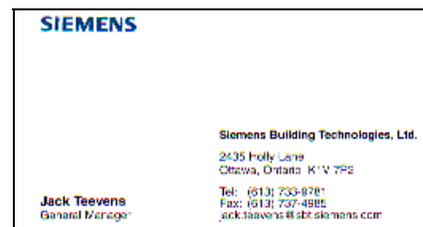
ROY & ASSOCIATES
ELECTRO-MECHANICAL CONSULTANTS INC.

104 DES SABLES
GATHERAU, QC J8P 7C7

P.O. BOX 8033, C8C T
OTTAWA, ONT. K1G 3B6

Daniel Roy
P. Eng., P. Mech. E.
President

TEL.: (613) 643-3544
FAX: (613) 643-3968
CELL: (613) 276-0030
E-MAIL: droy@royassocinc.ca
WEB SITE: www.royassocinc.ca



SIEMENS

Siemens Building Technologies, Ltd.
2435 Holly Lane
Ottawa, Ontario K1V 7P2

Jack Teevens
General Manager

Tel: (613) 733-8781
Fax: (613) 737-8885
jack.teevens@sbz.siemens.com

**SMITH AND ANDERSEN
CONSULTING ENGINEERING**

David Eastwood, P.Eng.
Partner

Office 613.230.1186
Facsimile 613.230.2598
davide.sa@on.aibn.com

TAMCO
Innovative Damper Products

Doug Graham
Regional Manager

Head Office:
27 Iyer Road
Stittsville (Ottawa), Ontario
Canada K2S 1E6

Tel: 800-561-3449
Fax: 800-888-8476
Cell: 416-414-6599
E-mail: grahamd@tamco.ca
Website: www.tamco.ca

**TOTAL
HVAC**

Adam Beales
Principal

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

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

(...continued)

Any chapter member can review a handbook section by forming a sub-committee, and completing the necessary comment form. The form is available at:

http://xp20.ashrae.org/BOOK/frm_handbook.htm

Awards

Most of us would like the recognition that goes with winning an ASHRAE award. It is not as difficult as it appears – just fill out the simple two page form for a Chapter award. If a project wins the Chapter award, we will then forward it for a Society level award. Contact TEGA for an electronic copy of the Awards form.

We are also looking for a volunteer to administer the Awards program.

Technical Committees

The best way to get involved with ASHRAE on a society level is to join a Technical Committee (TC) or a Technical Group (TG). For starters, you could join as a corresponding member, and then graduate to be a voting member. Participation opportunities include standards, research, programs, journal/insights, and handbooks. For voting members, some travel is required, generally at the members' expense. Contact TEGA for more information on how to get involved.

If you are already on a TC or TG, Chapter members would like to hear from you. To arrange a presentation during a Chapter meeting, contact our Programs co-chair Chris Workman.



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, rodl@htseng.com, 728-7400

Guy H.J. Bourbonnière P.Eng.
District Manager




Trane Ottawa
1024 Morrison Drive
Ottawa, ON K2H 8K7
Tel: (613) 820-8111
Fax: (613) 820-1414
ghjbourbonniere@trane.com
www.traneottawa.com

VAN FORT



ERIC VAN BENSCHOTEN
35 LE ROY STREET - BATHURST, QUEBEC
CANADA J0V 1G0
Tel: (514) 246-1681
Fax: (514) 246-2750
Pager: (514) 246-6524
vanfort@vanfort.ca

WALMAR www.walmar.net



24 Gurdwara Road
Nepean, Ontario
K2E 8B5
Tel: (613) 225-9774
Fax: (613) 225-2972
e-mail: randy@walmar.net
RANDY CAVILL, C.E.T.
President
VENTILATION & FILTRATION PRODUCTS



Willing Suspension of Disbelief

by Rod Potter

Having brought up the subject of movies in last month's Communiqué, I would like to continue along the same path with a discussion of how the film industry handles HVAC and other building systems. You may have noticed that many of the action films gracing our screens tend to use the tools of our trade as springboards for the escape of villains, heroes and any other poor souls unfortunate enough to find themselves with the short end of the stick.

Viewable favourites include the sprinkler system where every head in the area starts flooding just because our hero uses his Bic lighter on just one head (give me a break); then there is the way actors can always find a duct large enough to crawl right into and possibly stand up and run away (most of the ducts I design max. out at about 24x36"); they would have you believe that the time it takes to lift a ceiling tile, climb up into the ceiling space, replace the tile, and hang all your body weight from a tee-bar is only 3 seconds (yeah right); and there is always that grille that was installed by Road Runner Ducting Inc., you know the one – it only takes a little kick and it is OFF.

A discussion of these matters with my wife usually ends up with her telling me to take a pill and not be so critical of the movies – “willing suspension of disbelief” she calls it – i.e. just go with it, after all, it's only a movie. To which I usually respond by chastising the movie industry for spending so much money on the production only to let us engineering types down.

Chances are there are a few of you out there who agree with me – no problem if you don't – but I think it is high time Hollywood did its homework (or at least consulted with the boffins in Atlanta). It occurs to me that they should be coached to the point where they understand what HVAC actually stands for, NOT Highly Valueless Action Clips.

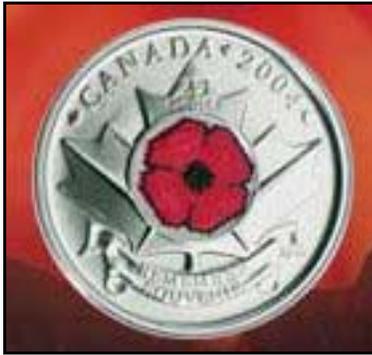
(your card here!)

X-L-AIR Nicolaos Haitas, P. Eng.
President

X-L-AIR ENERGY SERVICES LTD.
CONTRACTOR

www3.sympatico.ca/x-l-air Tel: 613-839-1708
x-l-air@rogers.com Fax: 613-839-1803

(your card here!)



Please take a moment November 11th to remember our history and our past and the many men and women who made the ultimate sacrifice for the freedoms and the lifestyles we enjoy today.

Lest we forget. I enclose a Remembrance Day haiku written by my son, then age 10. Cathy.

*Men and women fought
Knocking on the door of death
Some returned, some not*

ASHRAE OTTAWA VALLEY CHAPTER MEETING LOCATION

Our meeting location is **LA CONTESSA BANQUET HALL**, 156 Cleopatra Drive, Nepean, K2G 5X2
Tel. 613-224-8700. Parking is available just to the north of the building in a small multi-storey parking lot.
Make sure you lock your car and bring your valuables with you.

*** end of Communiqué ***



(your card here!)

