



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

November 2002

PROGRAM

DATE: November 19, 2002

THEME: TEGA / Student

PROGRAM: Challenges on the Road to the Integrated Building at the Ottawa Airport and Elsewhere

OVERVIEW: The traditional building with fragmented systems is slowly giving way to a new trend, the Integrated or Smart Building. The presentation will first set out to provide a definition for an Integrated Building and discuss the differences between this and a traditional building. The technical discussion will investigate the technical changes, standards and approaches that you will encounter through the construction of an Integrated Building. The presentation will wrap-up with a discussion of the challenges faced with a Smart Building.

SPEAKER: Keith Glover & Dan Butler, P. Eng.

Keith Glover has over 20 years experience in software development, Project Management and development of web based business solutions in a variety of situations including facilities automation, human resource management, logistics, financial systems, complex technologies for a broad range of industries. Currently Mr. Glover is the IT Project Manager for the Ottawa MacDonald Cartier International Airport Authority new Passenger Terminal Building project. The new terminal building incorporates integrated building and client systems sharing a common fibre optic network.

Mr. Butler graduated from Queen's University with a degree in Applied Science in 1984 and has worked for Marshall Macklin Monaghan since 1987. Dan is a Senior Project Manager leading the airport special systems group. He has over eighteen years of related experience both in airport operation and IT systems design, project management and integration role. His current responsibilities involve implementing state of the art security and information technology systems for Toronto Pearson's \$4.4 billion new terminal project and Ottawa's \$300 million terminal expansion.

PLACE: Capone's Banquet Facility, Nepean Sportsplex, 1701 Woodroffe Ave, Nepean

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

MENU

Lentil Soup with Porchini & Rice
Sole Veronique in a White Wine Cream Sauce & Grapes
Saffron Rice & Seasonal Mixed Vegetables. Capones Chocolate Cake

2002 -2003

President

Lan Chi Nguyen Thi

President Elect

Jason MacMurdo

Secretary

Cathy Godin

Treasurer

Jay Doshi

Past President

Frank Bann

Governors

Tony Doyon

Ron Drummond

Donald Johnson

Rob LeFebvre

Stewart Woermke

Kingston Section

Vacant

COMMITTEES

Audit

Gemma Kerr

Research

Frank Bann

Membership

Robert LeFebvre

Program

Christine Gaffney

Student Activities

Patric Renault

TEGA

Joel Primeau

Chapter Historian

Paul Baker

Special Events

Chris Healey

Peter Nabi

Communiqué

Rod Lancefield

Publicity

Mike Derouin

Table Top

Gary Hartmann

Telephone

Sylvia Wallace

Greeters

Ray Young

Roster

Kevin Toll

Home Page

TBA

Al Oakes Award

Frank Bann

Nominations

David Eastwood

CRC Action

Lan Chi Nguyen Thi

CRC 2002 Ottawa

Bill DeGagne

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

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



Carrier Canada
 1050 Baxter Road, Unit B
 Ottawa, Ontario K2C 3P1
 613-820-7810, Ext. 240
 Website: 1-800-561-8395, Ext. 240
 Fax: 613-820-9462
 Internet: john.lowery@carrier.utc.com



CLP
 CLEMANN LARGE PATTERSON

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

MEMBER OF GENIVAR
 GENIVAR INC.

15 Fitzgerald Road
 Nepean, Ontario, CANADA K2H 9G1
 Tel.: (613) 829-2800 ext. 333
 Fax: (613) 829-8299
 www.clp.on.ca ~ mswayne@clp.on.ca

Tour

New Terminal of the Ottawa MacDonald-Cartier International Airport

Tour: 15:30

The Chapter Tour this month will be held before the November 19TH Chapter meeting starting at 3:30 PM at PCL's site office at 302 Campbell St. (see map on website).

Please park in the PCL Site parking lot. It is a substantial walk outside from the site office to the New Passenger Terminal Building so dress accordingly.

On site everyone is required to wear safety boots, hard hats and safety glasses with side shields. PCL has some extra safety gear that they are willing to loan but it will go on a first come/first serve basis. In addition, there is a safety requirement that all visitors wear pants or slacks rather than dresses, skirts, or kilts.

For more details please contact Paul Baker at 613-831-7671 x224.

PRESIDENT'S MESSAGE

Students have always had a special place in my heart. They are the ones who will be shaping our profession in the future but today, they need our guidance and encouragement. Student activities night allows them to meet with practitioners and future employers so come to our November Chapter meeting and show them your support. Also, we will be welcoming students from a New Branch, Competences 2000.

We have an exciting tour and program all about the new terminal for the Ottawa Macdonald-Cartier International Airport. Don't forget your safety gear (boots, hard hats and eye protection) if you plan to participate.

Bring a friend, invite a colleague, our program is varied and interesting and the more the merrier! Planning to attend? Please confirm your attendance with the telephone committee or with Sylvia Wallis at EngAir. Notify us too if you have to cancel especially for the meals since we have to pay the caterer for no-shows and that hurts our Chapter finances.

Have a great month and I look forward to seeing you on November 19.

Lan Chi Nguyen Thi, P.Eng.

AIR CONDITIONING VENTILATION AIR CLIMATE



Dillo Mechanical Limited

1500 STAR TOP ROAD
 OTTAWA, ONTARIO K1B 3W8

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

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



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



HNTS 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@hntseng.com Toll Free 1-888-280-8544



HUGH WILLIAMSON ASSOCIATES INC.
Acoustics, Vibration and Noise Control

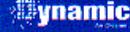
Hugh Williamson, Ph.D., P.Eng.
12 Maple Lane, Ottawa, ON, K1M 1G7

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

InAIR Environmental Ltd.
Indoor Air Investigations and Research

Gemma Kerr, Ph.D.
Partner

1390 Prince of Wales Drive, Suite 503,
Ottawa, ON K2C 3N6
Phone: (613) 224-3863 FAX: (613) 224-2561
E-mail: inair2@mail.cyberus.ca



Quebec / Ontario / Manitoba

Maurice Lachance

Dynamic Air Cleaners Inc.
1313 Cour du Grand-Chêne Est.
Ottawa, Ontario, Canada K1A 5H9
(613) 833-1520 Fax (613) 833-1775
page1 (613) 566-8245
TOLL FREE 1-800-607-6892

<http://www.dynamicaircleaners.ca> e-mail: milachance@dynamicaircleaners.ca

TABLE TOP DISPLAY

BASE Controls Ltd. and will feature state-of-the-art Building Automation Systems. In addition, Controls Depot will be on hand displaying a variety of products which they represent (Belimo, Vulcain, Invensys, etc.).

Open Protocol Building Automation Systems are rapidly becoming a very important part of today's projects. Internet Technology and Open Protocols such as BACnet, LON and Modbus allow clients to benefit from best products as well as make room for competitive bidding. BASE Controls Ltd. offer a complete line of Open Protocol Products as well as multi-system Integration Services.

QueMar will feature the Eco Multi Split system from SANYO. This unique system allows up to 8 fan coils to be connected to a single 72,000 btu/hr condensing unit

For future tabletop presentations please contact Gary Hartmann @ Breck-Mar Sales Ltd.
Tel: 613-728-0060
Fax: 613-725-2637
e-mail: gary@breck-mar.com

ASHRAE OTTAWA VALLEY CHAPTER MEETING LOCATION

Our meeting location is **Capone's Catering** at the Nepean Sportsplex, 1701 Woodroffe Avenue, Nepean. We meet in the "Richmond Room". Enter Capone's from the rear of the Sportsplex at Entrance #4. Parking available at the rear.

Make sure you lock your car and bring your valuables with you.

WHAT YOU MISSED

The theme of the evening was Research. Appropriately, ASHRAE Research and the process for choosing, evaluating and fulfilling projects was presented by Darryl Boyce from the Society point-of-view, by Gemma Kerr from a technical committee point-of-view and by Gary Lougheed from a researcher contractor's point-of-view.

On the program was the Canadian National Research Council Smoke Management Research Projects on Atria, Plenum Cables and Duct Smoke Detectors.

Dr. Lougheed introduced the membership to the NRC's fire test facility near Almonte and briefly reviewed five research projects in recent years. The continued research results in aiding in design criteria, engineering guidance, improving standards and establishing or updating of building codes.



Loughill Energy Products (Eastern) Ltd.
15 Capella Court, Unit 111
Ottawa, ON K2E 7X1
Tel: (613) 226-3886
Fax: (613) 226-3715
Email: chrish@loughillenergy.on.ca

CHRIS HARRISON

the energy conservation people



Christian Caron, eng.
Applied Systems and
Commercial Regional Manager
YORK, MAMMOTH and VENTROL

Le Groupe Master Ltd
REFRIGERATION & AIR CONDITIONING
1250, Old Innes Road, Unit 522
Ottawa, Ontario
K1B 5L3

(613) 741-4455
FAX: 741-5393
CEL: 794-4872
1 (800) 627-4768
ccaron@master.ca
www.master.ca



KEEN ENGINEERING CO. LTD.
Consulting Professional Engineers

JAMES S. MILLS, P.Eng., ing
Associate

1111 Prince of Wales Drive
Suite 402
Ottawa, ON K2C 3T2
Web: www.keen.ca

Phone: 613 225-9414
Fax: 613 225-9421
Cell: 613 447-2615
email: jim.mills@keen.ca

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: 1-800-638-4682
Cell: (416) 966-7822

QUEBEC **ONTARIO**

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

2, Director Court, Suite 107
Woodbridge, Ontario L4L 3Z3

Modern  Niagara
GROUP INC.

John R. McAninch, P.Eng.
CEO

85 Denzil Doyle Court
Kanata, Ontario K2M 2G8
Tel: (613) 591-7505 Fax: (613) 591-1523
E-mail: jmcainch@modernniagara.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) 225-0140 • Fax: (613) 226-6804
Web Site: www.capitalgroup.ca • E-mail: kboyd@capitalgroup.ca

MEMBERSHIP PROMOTION

The Ottawa Valley Chapter would like to welcome Patrick Bouchard, Reda Djebbar, Robert Oakes and Corey Reynolds as new society members to our area, and Francois Belair, Douglas Cathcart, Christine Gaffney, Frederic Laforge and Anwar Syed as new chapter members.

Please try to bring a guest to the next Chapter meeting. Ask a friend, a work colleague, an employee or your boss. Better yet, why not bring that new young person who just started at your office. What better way to introduce them to the people and issues that make our industry tick.

If you need to update your personal and professional information, the on-line form is available at www.ashrae.org

If you require society and/or chapter application forms, they will be available at the next chapter meeting, or you may contact Robert Lefebvre at 727-5111 or by e-mail at rlfebvre@gwal.com

Robert Lefebvre, P.Eng.
Membership Promotion Chair – Ottawa Valley Chapter

STUDENT ACTIVITIES

Activities

A visit of the Cliff Street Heating Plant was held on November 1st for the students of the University of Ottawa ASHRAE student branch. Students of Ottawa U, Algonquin College and Competence 2000 are invited to attend the visit of the Ottawa Airport Terminal construction site that is being held this month before the monthly diner on November 19th and also attend the diner. The November diner is the first of two Student Nights.

Career Fair

Our annual Career Fair for employers and students is being planned for March 2003. Details to follow soon. Any questions or comments, please contact me directly.

Sponsoring

We are presently looking for additional "sponsors" for our student members. A "sponsor" would typically pick up the member(s), pay for their meal(s) and generally make them feel comfortable at a monthly meeting. This was arranged by some of us in the past and was found to be very beneficial. Please contact me directly if you are interested in being on our "sponsors" list.

Donating Old ASHRAE Handbooks

If you are interested in making a donation to a Student Branch, please contact me directly to make arrangements. These are very much appreciated. Thank you.

Patric Renault
Email: patric@dilfo.com
Student Activities Chair
613-741-7731

SIEMENS

Siemens Building Technologies, Ltd.

2435 Holly Lane
Ottawa, Ontario K1V 7P6

Tel: (613) 733-8788
Fax: (613) 737-4888
jack.taewens@sbz.siemens.com

Jack Teevens
General Manager

**SMITH AND ANDERSEN
CONSULTING ENGINEERING**

David Eastwood, P.Eng.
Partner

Office 613.230.1186
Facsimile 613.230.2598
davide.sa@on.a1bn.com

**TOTAL
HVAC**

Adam Beales
Principal

29 Cleopatra Drive
Nepean, Ontario
Canada, K2G 0B6

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

Guy H.J. Bourbonniere 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.tranecottawa.com



ROY & ASSOCIATES
ELECTRO-MECHANICAL CONSULTANTS INC.



Daniel Roy
P.Eng., P.A.Sc.
President

101 DES SABLES
GATINEAU, QC JEP 1C7
P.O. BOX 8033, CSD T
OTTAWA, ONT. K1B 3B6
TEL: (819) 643-3944
FAX: (819) 643-3959
CELL: (613) 276-8839
E-MAIL: droy@royassocinc.ca
WEB SITE: www.royassocinc.ca



WALMAR www.walmar.net

24 Gurdwara Road
Nepean, Ontario
K2E 8B5
Tel: (613) 225-9774
Fax: (613) 225-2972

RANDY CAVILL, C.E.T.
President
e-mail: randy@walmar.net
VENTILATION & FILTRATION PRODUCTS

How it all started 1949

A dinner meeting was held in Ottawa for those interested in becoming members of the American Society of Heating & Ventilating Engineers (A.S.H. & V.E.) and interested in the formation of a local chapter in Ottawa on the 28th of January 1949. Mr. Stotesbury was instrumental in organizing the event with the Montreal chapter members however he was unavoidably called out of town and was unable to attend. Mr. W.B. Pennock was acting chairmen for the evening. The purpose of the meeting was to evaluate the interest for a local chapter and to increase the number of members to at least 20 in order to even think of starting a local chapter. During this meeting the pros and cons of being a member were discussed along with the advantages of local chapter. The meeting was attended by 7 society members and 14 guests, all 14 guests were interested in becoming society members. Mr. Watson read the correspondence that Mr. Stotesbury had organized with the help of the Montreal chapter and secretary of the ASHVE in New York City. This information outlined the procedures for forming a chapter, membership fees and application forms. Mr. Stotesbury would organize the necessary new member applications, have them seconded by the council of the Montreal Chapter and sent to Society before any further actual application be made for a local Ottawa chapter. A motion was passed to allow Mr. Stotesbury to organize his own committee and carry out the work required to apply for a local chapter.

This meeting would lay the frame work for the formation of the Ottawa Valley Chapter of ASHVE and as we know it today the Ottawa Valley Chapter of ASHRAE.

Key events in Ottawa History during this year:

Prime Minister: Louis St. Laurent (1948-57) Liberal

Canadian Dollar: \$0.99US (1949)

Date	Event
1941	First National Building Code in Canada.
June 19th 1942	Planning began for Carleton College (later Carleton University).
1945	World War II ends.
1946	First automatic general purpose computer is constructed ENIAC.
January 6th 1947	Canadian Citizenship became law; Mackenzie King received the first certificate.
April 1st 1947	Bradings Brewery warehouse burned down.
May 3rd 1947	CFRA radio station, under Frank Ryan, began broadcasting.
February 28th 1948	Ottawa RCAF Flyers won Olympic Hockey Championship.
November 27th 1948	Toronto - Calgary Stampeders beat Ottawa Rough Riders 12-7 in the 36th Grey Cup.
1948	Truman abolishes racial segregation in U.S.
May 7th 1949	Ottawa Senators hockey team won the Allan Cup.
1949	Nineteen Eighty Four by George Orwell is on the book stands.
February 25th 1950	Approval given to transform Sparks Street into a pedestrian mall.
April 21st 1951	Greber Plan for the Federal District (now the NCC) approved.



R.J. McKEE
ENGINEERING LTD.
CONSULTING ENGINEERS

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

1785 Woodward Drive
Ottawa, Ontario, Canada K2C 0P9
(613) 723-9585 Fax: (613) 723-9584
Email: jhsic@rjmeng.com

Steve Clayman
Agent for Knauf Fiber Glass



KNAUF FIBER GLASS GmbH
100 University Avenue, Suite 702, Box 128
Toronto, Ontario M5J1V6
direct: 416-593-4322
voice: 800-825-4434 * 8216
fax: 416-586-0481

e-mail: sic1@knauffiberglass.com
www.knauffiberglass.com



MacCOM SYSTEMS Ltd.

Donald MacMillan P.Eng, ASHRAE
Indoor Air Consultant

838 Eastvale Dr. OTTAWA ONTARIO K1J 7A4
Tel 613-749-1232 Fax 746-6710 macmac@istar.ca

