

AMERICAN SOCIETY OF HEATING, REFRIGERATION AND AIR CONDITIONING ENGINEERS INC.

LONDON CANADA CHAPTER #116
LondonCanada.AshraeChapters.org

November 29/2004

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Program

Introduction to VRF (Variable Refrigerant Flow) Air Conditioning Systems

Mr Anton Wolmarans
General Manager, HVAC Division
Mitsubishi Electric Sales Canada Inc.

Topic to be covered

- Background
- What is a VRF System
- Different types of VRF Systems
- Operating Principles
- Benefits of VRF Systems
- VRF System Piping Application and Limitations
- Comparison to conventional systems
- Typical controls
- Energy Savings Potential
- IAQ Integration Issues
- Examples of installed jobs worldwide & in Canada

GO KNIGHTS GO

Erie Otters at the London Knights
Thursday March 3/2005 at the John Labatt Centre
We have a 54 seat box for this game (as we did a couple of years ago), which
adds to the fun. Cost: \$25.00 for a game ticket and snacks
Contact Joe Claessens at the November meeting to set aside a ticket

Meeting Location - Mon November 29/2004

The Lamplighter Inn
591 Wellington Rd., London

London Chapter Members = \$30.00 or \$160.00 meal plan
Students = \$15.00 Guests (all others) = \$35.00

Membership Promotion Night

5:15-Social 6:00-Dinner 7:15-Program



President's Message

November's meeting will be our first Membership Promotion night of the year. Our regional focus this year is on promoting ASHRAE and signing up new members. The London Chapter is doing its part, with a few new members already this year, but I'm sure there are many owners, contractors and designers out there who could benefit from ASHRAE. If you know of someone who might be interested, please help promote ASHRAE by telling them about it!

This month's meeting topic, packaged variable refrigerant flow systems, is on the leading edge of current technology. These systems have only become commercially available in the last few years, and allow multiple evaporators to be served by a single condenser in a small system. This should make for an interesting and challenging evening.

I'd like to highlight next month's meeting, on **LEED** in Canada, and also our social event, a London Knights hockey game next March. Last year's session on **LEED** and sustainable design was one of our best attended meetings. I suspect we'll the same thing this year – sustainable design is the hot topic right now. The meeting date is January 31st. You should also mark your calendar for our social event, the Erie Otters at the London Knights on Thursday March 3rd at the John Labatt Centre. We have a 54 seat box for this game, as we did a couple of years ago, which adds to the fun. Contact Joe Claessens at joe@smylicrow.com to set aside tickets.

See you at the meeting.

Derek B. Vakaras, P.Eng.
President, London Canada Chapter

Speaker's Bio

Mr Anton Wolmarans

General Manager, HVAC Division

Mitsubishi Electric Sales Canada Inc., Markham, Ontario

Education:

Mechanical Engineering Diploma HVAC&R as main subject (South Africa)
(like CET in Canada)

Final year achieved highest marks in Country for subject HVAC and R.
Factory trained at Mitsubishi Electric in Japan and United Kingdom on VRF
and other HVAC technologies.

Also Certified Refrigeration and Air-Conditioning mechanic South Africa
and Canada.

Work History:

HVAC&R technician for Contracting company's

Technical Advisor Mitsubishi Electric South Africa.

Senior Technical Advisor and Trainer Mitsubishi Electric South Africa

Technical and Training Manager Mitsubishi Electric South Africa


Sales Engineer Dunham Bush South Africa.

Sales Engineer Mitsubishi Electric South Africa

Product Manager Mitsubishi Electric Canada Inc.(Introduction of VRF (City
Multi) systems to Canada)

General Manager Mitsubishi Electric Sales Canada Inc.

Pete Edmiston
Branch Manager



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Previous Meeting Summary

On October 25, 2004 we had our second meeting for the 2004/2005 ASHRAE season. The meeting was well attended. The meeting was Resource Awards Night and presentations were made to all the Honor Roll awardees in attendance. Once again we thank everyone for their generous contribution.

The topic was on "Applying Variable Volume Pumping (Modern HVAC systems)" it was very well presented by our speaker Phil Searle of ITT Fluid Products Canada. Phil made some interesting alternatives to pumping strategies and efficiencies.

Thank-you Phil for your time and effort.

Joe Claessens
CTTC Chair & Vice President, London Canada Chapter

Resource/Research Contributions 2003/04

The list published in October was for contributors who obtained Honor Roll status - the following list is for all contributors:

Abram Sheet Metal Inc
Baymar Supply
Control Systems-Ontario
Curney Mechanical Ltd
Durell Control Systems Inc
Emcad Consulting Engineers Inc
Glover Hill Incorporated
HTS Engineering - London
JMR Electric Ltd.
London ASHRAE Canada Chapter
Palser Enterprises Ltd.
Roberts Brothers Sheet Metal Contr
Somers Environmental Product Inc
Union Gas Ltd.-Chatham
Weil-McLain Canada

Airwaso Limited - London Ontario
Chorley & Bisset Ltd.
Culliton Brothers Limited
Drennan Refrigeration Inc
E.H. Price Sales Ltd. - London
Erie Sheet Metal
Graham Heating & Cooling
J A Brownlee (1995) Limited
Linde Plumbing and Heating Ltd
Melex Engineering Ltd
Ray Tec Radiant Heaters Ltd.
Smylie & Crow Associates Inc
Trane Sales Agency-London
Van DerWesten & Rutherford
Westminster Mechanical

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Mr Owen Glenden
Mr Ronald E Granger
Mr R Thomas Pollard
Mr Scott Turner

Mr Joseph M Claessens
Mr Scott C Edmunds
Mr Peter J Golem
Mr Craig T Morasch
Mr Daryl E Somers
Mr Derek B Vakaras

Thank You for your contributions
and I hope you will continue your support to ASHRAE Research

Tom Pollard
Past President & Resource Promotion Chair, London Canada Chapter

SOMERS ENVIRONMENTAL PRODUCTS INC.

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LEED CANADA LAUNCH & GOVERNMENT SUMMIT

“Government Leading the Way: Emerging Trends in Green Buildings”

Please join Canada Green Building Council and its members at:

CONSTRUCT CANADA - Metro Toronto Convention Centre

December 1, 2004 10:00am to 5:00pm (Reception to follow 5:00 to 6:30pm)

Session Overview

- Participate in the national launch of the LEED Canada building rating system
- Learn about government green building initiatives from coast to coast
- See on the ground examples of green programs & policies in action
- Explore what the future holds for green buildings & sustainable communities
- Learn how your organization can benefit by participating in this growing industry sector

Speakers:

This years roster of speakers includes leading Industry experts and government officials from across the country

- Peter Busby, Busby Perkins & Will
- Ian Jarvis, Chair CaGBC
- Ray Cole, UBC School of Architecture
- Anne Auger, Natural Resources Canada
- Kevin Hydes, Keen Engineering
- Thomas Mueller, Greater Vancouver Region District
- John Gibson, Alberta Infrastructure
- Steve Polin, Society Immobiliere du Quebec
- Ian Smith, City of Vancouver
- Richard Allan, City of Calgary
- John Campbell, Toronto Waterfront Revitalization Corporation
- Bill Semple, Canada Mortgage and Housing Corporation

Registration: \$75.00 for CaGBC members, \$100 for non-members (includes lunch & refreshments)

To register: goto www.constructcanada.com/tor/frame04a.html

follow the links to “Seminars and Conferences - Program at a Glance”
and visit the CaGBC website at www.cagbc.org for more information

November Membership Promotion Night

A few of the benefits of joining and belonging to ASHRAE...

- * grow technically, personally and professionally
- * delivering tools to practice design excellence
- * networking with experts and colleagues you can trust
- * providing life-long learning
- * developing leadership and management skills

be sure to see

John Kelly
Membership Chair,
ASHRAE London Canada

Every practitioner of HVAC&R technology relies on ASHRAE: designers, contractors, facility managers and operators, building owners, maintenance personnel, educators, suppliers, researchers. ASHRAE enables its members to provide comfortable and healthy environments and maintain the industry processes and cold chain on which human existence relies. How does ASHRAE benefit you?

Stay current

Provide expert insights to your company.

Invest in your professional development.

Access Technical Tools to Do Your Job Better

You can rely on ASHRAE information. It is the one source that is accepted internationally. As a member you receive:

- o ASHRAE Handbooks, **FREE**
- o The HVAC&R Industry eNewsletter, **FREE**
- o ASHRAE Standards, **DISCOUNTED**
- o Educational Products and seminars from the ASHRAE Learning Institute, **DISCOUNTED**
- o ASHRAE Journal, **FREE**
- o More than 300 ASHRAE Research Reports, Software, Application Guidelines and Studies, **DISCOUNTED**
- o Winter ASHRAE/AHR Expo and ASHRAE Annual Meetings **DISCOUNTED**

The value of ASHRAE membership measured only in the free publications provided to members, access to technical information on the ASHRAE website, and discounts on publications and educational products that are essential for HVAC&R practice used by engineers every day, easily exceeds \$300 annually.