

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

London, Canada Chapter No.116 (www.execulink.com/~tpollard/ashrae.html)

OCTOBER 2003

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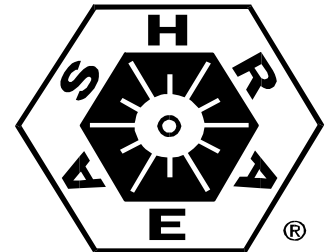
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Topic: Sustainable Building Design and the LEED Green Building Rating System

**Speaker: Stephen Carpenter, P.Eng.,
Enermodal Engineering**



The traditional mechanical engineer's role in building design is to ensure that the systems meet the basic requirements for heating, cooling and ventilation. Increasing concern about environmental issues is now requiring that buildings be more sustainable including high levels of energy efficiency, superior indoor environment and minimum environmental impact. The advent of the LEED green building rating system means that designers can now quantify the sustainability of their designs. LEED is becoming widely used across North America and is a requirement for many federal government buildings. Mr. Carpenter will provide an overview of the LEED rating system and examples of sustainable building designs.

Stephen Carpenter is president of Enermodal Engineering of Kitchener, ON and an active ASHRAE member. Enermodal specializes in energy efficient and sustainable building design and has won two ASHRAE Technology Awards for their buildings. Mr. Carpenter was the first LEED Accredited Professional in Ontario and is providing sustainability consulting services on over \$1 Billion in building projects. He is also a contributing author to the recently approved ASHRAE Green Guide to Buildings.

**Location: The Lamplighter Inn
591 Wellington Rd., S.**

BUFFET MENU

Meal Cost \$35.00, Or Meal Plan \$160.00

Students \$15.00

Monday October 27-2003

Social—5:15 pm

Dinner—6:00

Program—7:15 (Approx.)

President's Message:

The London Chapter program for the upcoming year is being finalized. Within this newsletter is a complete list of upcoming speakers and topics. Be sure to mark your calendar of the meeting dates. Several of our meeting topics might be of interest to others (building owners, architects, designers) so be sure to let others know about your meetings.

There will also be a few additional activities that we are planning. A trip to see a London Knights hockey game at the John Labatt Centre is being planned for December. Be sure to attend the October meeting to find out additional information as we will have a limited number of tickets.

Last month's meeting was a student night for Univ. of Western Ontario and Fanshawe College (total attendance was 55). I would like to thank those corporations who have offered to sponsor a student (this allows the student to attend a chapter meeting and also membership in the ASHRAE Society). If your company would like to sponsor a student, please contact Scott Edmunds.

Research Promotion:

In this months report we would like to take this opportunity to thank all of the members and companies who have contributed to the Research Promotion Campaign last year.

The Research Campaign for 2002 –2003 was a good news bad news story. The bad news was that the society fell short of its goal by 10.2%, collecting \$1,545,579 of the \$1,734,575 target. The good news from Region II and the London chapter is that Region II was only one of the two Regions (there are 14 Regions) who exceeded their goal for last year.

Although ASHRAE did fall short of its target goal last year, the thought of collecting more than 1.5 million dollars that funds research projects is nothing to be ashamed of, especially when you consider the organization is made up of volunteers. We should be proud of what we have accomplished.

We would like to recognize the following members and companies who made the Research promotion in London another success story.

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Program:

We had a strong turnout for our September meeting (55), despite it being the first meeting of the year. We had a number of UWO and Fanshawe students attend, and hopefully some of them will continue to attend for the rest of the year. Those that did attend last month enjoyed an entertaining talk by Dr. Duncan Phillips of RWDI in Guelph on the use of Computational Fluid Dynamics (CFD) in the design of laboratory spaces.

This month's meeting will feature Stephen Carpenter of Enermodal Engineering, speaking on Sustainable Building Design and the LEED green building rating system. This is becoming a hot topic in the industry, as Building Owners start to request their buildings be LEED certified.

November 24th, 2003 Meeting Preview

Speaker: Bill McCartney, Isotherm Engineering Ltd.
Topic: The Commissioning Process

The commissioning process was first developed at an ASHRAE forum over 20 years ago and was outlined in ASHRAE Guideline-1 1989. The guideline was revised and published again in 1996. We are now going through the revision process again and working with ASHRAE to create Guideline-0 Total Building Commissioning, of which HVAC commissioning is a subsection. This discussion will focus on Guideline-1 1996 and the commissioning process as it pertains to the HVAC construction industry.

We will follow through the three basic sections – Documentation, Verification, and Technology Transfer.

Bill McCartney is a Partner at Isotherm Engineering in Mississauga. A former London ASHRAE chapter member, Bill has been a member of ASHRAE Technical Committee TC7.9 Building Commissioning and chaired TC7.3 Operating and Maintenance Management. Isotherm Engineering offers consulting services in investigation, reporting, design, commissioning and service of HVAC systems.

Special Thanks:

A special thanks to the following companies for sponsoring meals for the students from UWO and Fanshawe College:

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diffusers air terminal units

History:

LONDON CHAPTER PAST PRESIDENT TOM DRENNAN

London's ASHRAE President of 1990-1991, Tom Drennan remains an ASHRAE member and heads his family's business in London. A Londoner for almost all his life, Tom's family moved to the city when he was eight years old.

In 1972 his father, Tom Drennan Sr., founded Drennan Refrigeration. After earning a BA in Social Sciences at the University of Western Ontario, Tom joined his father's company in 1979.

Drennan Refrigeration has completed many industrial projects in London and across southern Ontario, including a large cooler and freezer building for Serca Foods in Toronto. Along with freezers for vegetables, Drennan Refrigeration has also built food-handling facilities for McDonald's.

In addition to refrigeration for food, Tom has also made refrigeration systems for arenas, including the twin pad for Sarnia's junior hockey arena.

When his father retired in 1996 Tom became head of the company. Tom's brother Alex also works for Drennan Refrigeration.

As well as being involved with ASHRAE Tom has also been a member of the International Institute of Ammonia Refrigeration. Tom continues to be a supportive member of ASHRAE London and is a regular attendee of chapter meetings.

ASHRAE London Canada Chapter

2003-2004 Meeting Program

<i>Meeting Date</i>	<i>Topic</i>	<i>Speaker</i>
September 29 2003	Use of Computational Fluid Dynamics in Laboratory Design	Dr. Duncan Phillips, PhD, P.Eng., RWDI
October 27 2003	Sustainable Building Design and the LEED Green Building Rating System	Stephen Carpenter, P.Eng., Enermodal Engineering
November 24 2003	The Commissioning Process	Bill McCartney, Isotherm Engineering
January 19 2004	Underfloor Air Distribution	Andrew Clancy, P.Eng., York International
February 23 2004	Security Bonds in the Construction Industry	Don Bere, Stevenson & Hunt
March 29 2004	Tour of the new Engineering Laboratory Building at UWO	
April 26 2004	The Influence of the ASHRAE 90.1 Energy Efficiency Standard on Design of Chilled Water Systems	Julian R. de Bullet, ASHRAE Distinguished Lecturer, McQuay International