



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

LONDON CANADA CHAPTER #116

<http://LondonCanada.AshraeChapters.org>

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SEPT 25/2006

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TOPIC:

ENERGY MANAGEMENT INFORMATION SYSTEMS (EMIS)

JAMES H. HOOKE

James Hooke & Associates, Ottawa, Ontario

James (Jim) Hooke an Energy Management Consultant recently co-authored an *Energy Management Information System (EMIS) Handbook* which was sponsored by Union Gas Limited, Natural Resources Canada, Enbridge Gas Distribution, BC Hydro, Manitoba Hydro, Hydro Quebec, the Pulp & Paper Research Institute of Canada and the New York State Electric & Gas Corporation.

Written for all levels of management and operational staff, it aims to give a structured and practical understanding of an EMIS - including metering, data collection, data analysis, reporting and cost/benefit analysis

Jim will speak to the following key points:

- WHAT IS AN EMIS
- HOW DOES IT INTERFACE WITH AN ENERGY MANAGEMENT PROGRAM
- HOW TO 'SELL' EMIS TO MANAGEMENT
- HOW TO DEVELOP AN EMIS ?

We hope to have FREE COPIES OF
THE CIPEC EMIS Handbook
available at the meeting.

Meeting - Monday Sept 25/2006

THE LAMPLIGHTER INN, 591 Wellington Rd., London

London Chapter Members = \$25.00

Member's Meal Plan = \$125.00

Students = *** **FREE - STUDENT NIGHT** ***

Others = \$35.00

CASH BAR

ALL YOU CAN EAT BUFFET

5:15-Social

6:00-Dinner

7:15-Program



President's Message

I hope all of you have had an enjoyable summer, as we look forward to the fall and another upcoming ASHRAE year. Your chapter executive consists of: Scott Edmunds – Vice President & Program, Eric Shaw – Treasurer, Jason Vandenberghe – Secretary, & myself Scott Turner – President. More chapter information including upcoming meeting dates and speakers can be found at the chapter website: <http://londoncanada.ashraechapters.org>

In August, the Hamilton Chapter hosted the annual Region II CRC (Chapters Regional Conference). The CRC is a means in which chapters can bring forth their individual input and ideas to the attention of ASHRAE Society. It is also a time in which chapters receive recognition for their performance in their day to day chapter operations. The London Chapter received many awards for our past years performance including a special citation Presidential Award of Excellence for our past president Joe Claessens. Derek Vakaras – Research Promotion chair won the Hayward Murray Award which is presented to the Resource Promotion chair person who excels in raising funds for ASHRAE. Derek exceeded his goal of \$8,448.00 by 40.9% to give him a total of \$11,900.00 contributed setting a new chapter high – congratulations Derek. Our Chapter also received recognition Level 1 highest POAE points for: Chapter Operations, Chapter Technology Transfer, Membership Promotion, and Research Promotion, a special thank-you to those of you who made it happen.

Our September meeting will feature Mr. Jim Hooke of James Hooke & Associates Limited (Ottawa), who will be speaking to us on Energy Monitoring and Targeting (M&T). This will also be our first student night and I would encourage those of you who have been active in the ASHRAE environment to take the time to welcome them and make them feel "at home". We would also like to focus on increasing membership and chapter meeting attendance. A dues paying chapter member will benefit from the reduced meal cost of \$25 (or meal plan \$125), and the rate for guests will remain \$35. Our golf tournament is a great success with well over 100 attendees, however our monthly meetings tend to float between 25 to 55 people. I would like to challenge everyone to invite guest out to a monthly meeting this year and help grow this great chapter.

Scott Turner – President
scott@somersep.com
London Canada Chapter President 2006-2007

September Student Night

It is student night and we would like to invite all students to come out to our monthly meeting on Monday September 25th. The cost to students on this night is FREE! Members, please make an extra effort to welcome students by inviting them to your dinner table or introducing yourself sometime throughout the night.

Any company that would like to sponsor a student meal on this night can contact myself or Eric Shaw. Together we can build on the successes from last year and keep the London chapter strong.

Jack Maynard
Student Activities Chair, London Canada Chapter



Pete Edmiston
Branch Manager



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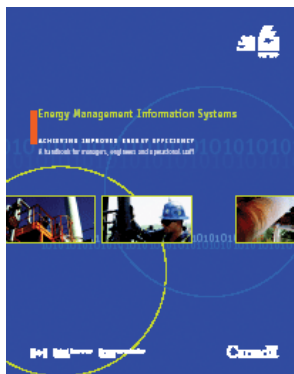


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ENERGY MANAGEMENT INFORMATION SYSTEMS (EMIS)

The Canadian Industry Program for Energy Conservation (CIPEC) is capitalizing on the emergence of information systems as an important resource in improving industrial energy efficiency. It is releasing a guide that helps energy practitioners get the most out of their energy management information systems.



Available free of charge, Energy Management Information Systems: Achieving Improved Energy Efficiency provides insight on how modern computing and monitoring equipment can be used to improve energy use. The 93-page, easy-to-use guide appeals to all levels of management and operational staff by clearly outlining the elements of an effective energy management information system.

According to co-author James Hooke, the handbook is an excellent tool for companies interested in maximizing energy savings without investing in expensive new equipment. When you get to the cost-benefit analysis stage, the data are readily available. But data by themselves are not knowledge," says Hooke. "With this guide, we tried to come up with a structure where companies can extract from that data and use them to operate efficiently."

The comprehensive guide deals with all aspects of energy management information systems - from designing an effective system to reporting, data analysis, and metering and measurement. It also includes a checklist to assess and compare your system with the structured approach presented in the handbook.

Hooke, who has been involved in industrial energy efficiency for almost 30 years, believes the EMIS guide stands apart from existing energy management publications because of its emphasis on information systems. "The EMIS guide explains in detail how energy management information systems dovetail into overall performance improvement and it shows how to define and implement such a system," he says.

The guide can be downloaded as a PDF file by clicking on the link on the The Office of Energy Efficiency (OEE) web site (under Guides and Publications):

<http://oee.nrcan.gc.ca/cipec/ieep/newscentre/guides.cfm>

Information taken from::

<http://www.caddet.org/news/display.php?id=20398>

CADDET website - a unique source of information on commercial energy-saving and renewable energy technologies



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**ASHRAE LEARN ON-LINE**

This fall, The ASHRAE Learning Institute will be presenting six seminars on topics including Introduction to Green Buildings and Sustainable Construction, Leadership Skills for Engineering Leaders-Situational Leadership®, Complying with Requirements of ASHRAE Standard 62.1-2004 and more. Visit www.ashrae.org/onlinepds

Outstanding Achievements Recognized at ASHRAE's Annual Meeting

QUEBEC CITY - The American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) recognized 69 people and one chapter for contributions to ASHRAE and the HVAC&R industry at the Society's 2006 Annual Meeting being held here June 24-28.

The Louise and Bill Holladay Distinguished Fellow Award honors an ASHRAE Fellow for continuous preeminence in engineering or research work. The recipient is Max H. Sherman, Ph.D., Fellow ASHRAE, group leader of the Energy Performance of Buildings Group, Indoor Environment Department, at Lawrence Berkeley National Laboratory, Environmental Energy Technologies Division in Berkeley, Calif.

The Exceptional Service Award recognizes Distinguished Award recipients who have continued to serve the Society faithfully and with exemplary effort. Eight recipients were recognized:

- Lynn G. Bellenger, P.E., Fellow ASHRAE, partner, Pathfinders Engineers, Rochester, N.Y.
- Qingyan Chen, Ph.D., Fellow ASHRAE, professor and principal director, School of Mechanical Engineering, Purdue University, West Lafayette, Ind.
- Richard A. Evans, P.E., Fellow ASHRAE, Life Member, owner, Evans Associates, Richland, Wash.
- Gordon V.R. Holness, P.E., Fellow ASHRAE, chairman emeritus, Albert Kahn Associates, Detroit, Mich.
- Glenn C. Hourahan, P.E., vice president, research and technology, Air Conditioning Contractors of America, Arlington, Va.
- Ross D. Montgomery, P.E., president, QST-Honeywell Controls, Palmetto, Fla.
- Bjarne Olesen, Ph.D., Fellow ASHRAE, professor and director, International Center for Indoor Environment, Department of Mechanical Engineering, Technical University of Denmark, Lyngby.
- Kent W. Peterson, P.E., chief engineer and vice president, P2S Engineering, Long Beach, Calif.

The Distinguished Service Award salutes members of any grade for giving freely of their time and talent to the Society. The following 22 members were selected:

- Constantinos A. Balaras, Ph.D., P.E., research director, Institute for Environmental Research and Sustainable Development, National Observatory of Athens, Greece.
- Pradeep Bansal, Ph.D., P.E., professor, University of Auckland, New Zealand.
- Charles S. Barnaby, vice president, research, Wrightsoft Corp., Lexington, Mass.
- Donald L. Beaty, P.E., president, DLB Associates Consulting Engineers, Ocean, N.J.
- Kelley P. Cramm, P.E., president, Integrated Design Engineering Associates, Kansas City, Mo.
- Brian P. Dougherty, mechanical engineer, National Institute of Standards and Technology, Gaithersburg, Md.
- James R. Fields, vice president, Superior Mechanical Services, Greensboro, N.C.
- E. Douglas Fitts, P.E., project manager, St. Louis County Public Works, Design and Construction Division, St. Louis, Mo.
- C. Wayne Frazell, P.E., engineer, Pritchard and Abbott, Fort Worth, Texas.
- Michele Friedrich, P.E., senior research engineer, Battelle Northwest Laboratory, Richland, Wash.
- Patricia T. Graef, P.E., engineering and development manager, Munters Corp., Fort Myers, Fla.
- Richard D. Hermans, P.E., senior project manager, Center for Energy and Environment, Minneapolis, Minn.
- Srinivas Katipamula, Ph.D., staff scientist, Pacific Northwest National Laboratory, Richland, Wash.
- Wilfred F. Laman, P.Eng., sales and engineering manager, Quiet-Aire Manufacturing, Mississauga, Ontario.
- Wayne M. Lawton, P.E., vice president, Lentz Engineering, Sheboygan Falls, Wis.
- Arsen Melikov, Ph.D., Fellow ASHRAE, associate professor, International Centre for Indoor Environment and Energy, Department of Mechanical Engineering, Technical University of Denmark, Lyngby.
- John R. Olert, president, Olert Engineering, Nashville, Tenn.
- Andrew Persily, Ph.D., Fellow ASHRAE, group leader, National Institute of Standards and Technology, Gaithersburg, Md.
- Douglas T. Reindl, Ph.D., P.E., professor, University of Wisconsin-Madison, where he directs the Industrial Refrigeration Consortium.
- Jitendra B. Singh, P.E., president, J&P Engineers, Linwood, N.J.
- Sriram Somasundaram, Ph.D., staff scientist, Pacific Northwest National Laboratory, energy science and technology directorate, Richland, Wash.
- Joseph A. Thuman, Life Member, Islip, N.Y.



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**ASHRAE Position on ETS Cited in Newly Released Government Report**

ATLANTA – A newly released report from the U.S. Surgeon General echoes ASHRAE's position that adverse health effects related to tobacco smoke cannot be eliminated through filtration or ventilation.

In its position document published last year, ASHRAE determined that although complete separation and isolation of smoking rooms can control environmental tobacco smoke exposure in non-smoking spaces in the same building, adverse health effects for the occupants of smoking areas cannot be controlled by ventilation.

"ASHRAE's position is that the only way to effectively eliminate health risk associated with indoor exposure is to ban smoking activity," Terry Townsend, P.E., ASHRAE president, said. "ASHRAE is pleased that our position was recognized by the U.S. government."

Findings from ASHRAE's Environmental Tobacco Smoke Position Document as well as guidance from ASHRAE's indoor air quality standard and ASHRAE Journal and Transactions articles are referenced in the report, *The Health Consequences of Involuntary Exposure to Tobacco Smoke*.

The U.S. Surgeon General report reaches six conclusions, including the fact "that eliminating smoking in indoor spaces fully protects nonsmokers from exposures to secondhand smoke. Separating smokers from nonsmokers, cleaning the air, and ventilating buildings cannot eliminate exposures of nonsmokers to secondhand smoke."

The supporting evidence for that conclusion notes that "ASHRAE, the preeminent U.S. body on ventilation issues, has concluded that ventilation technology cannot be relied on to control health risk from secondhand smoke exposure."

To obtain a free copy of the ASHRAE position document, visit www.ashrae.org/positiondocuments.

ASHRAE Endorses ARI Responsible Use Guide

ATLANTA – As part of its promise to provide a sustainable future, ASHRAE is supporting the Air Conditioning and Refrigeration Institute's (ARI) guide for responsible use of refrigerants.

Developed by ARI and the U.S. Environmental Protection Agency, the Responsible Use Guide for Minimizing Fluorocarbon Emissions in Manufacturing Facilities encourages refrigerant containment and environmental protection.

"Our endorsement concurs with a strong industry initiative that was conducted by ASHRAE members having as their objective the bringing of good practices to the world in a written form," Terry Townsend, P.E., ASHRAE president, said. "This also illustrates ASHRAE's strong support of a global sustainability initiative, along with many other organizations."

"Receiving ASHRAE's endorsement of ARI's responsible use of refrigerants guidelines demonstrates the industry is fully embracing this initiative to reduce fluorocarbon emissions in manufacturing facilities," William G. Sutton, president of ARI, said. "Responsible use requires all parties involved with refrigerants – from the engineers designing products to plant managers and workers on the assembly line – to be attentive to emission issues and to effectively address them if we are to maintain continued use of these chemicals in HVAC&R products."

ASHRAE provides guidance on minimizing fluorocarbon emissions through its research, Handbook and standards, including Standard 147-2002, *Reducing Release of Halogenated Refrigerants from Refrigeration and Air-Conditioning Equipment and Systems*. The standard establishes practices and procedures that will reduce inadvertent release of chlorine containing and other halogen containing refrigerants, such as halogenated chlorofluorocarbons, hydrofluorocarbons and hydrochlorofluorocarbons.

Entries Sought for ASHRAE 2007 Student Design Competition

ATLANTA – A New York City building now used as a distribution center will be virtually transformed into a biotech research facility through ASHRAE's 2007 Student Design Competition.

ASHRAE is looking for students to select and design an HVAC&R system to turn a package delivery company distribution building into a biotech research building complete with labs, office space, equipment, mechanical penthouse space, and a vivarium (an enclosure for keeping plants and animals alive in their natural habitat for observation purposes). The competition also includes an architectural design category for which students can submit designs for an 11,700-square-foot addition to the existing building.

The goals for the HVAC system selection and design include low life cycle cost, low environmental impact, comfort, health, creative high-performance green design and synergy with architecture. The design intent for the 127,165-square-foot renovation will be to provide modular, scaleable systems design.

The competition recognizes outstanding student design projects, to encourage undergraduate students to become involved in the profession, to apply their knowledge of practical design and to promote teamwork.

Student design teams may compete in one or more of the three categories: HVAC&R system selection, HVAC&R system design and architectural design. All team members must be enrolled in an undergraduate program during the semester they contribute to the design. Graduate students are not eligible.

The deadline for entries is May 4, 2007. For more information on the competition, visit The Student Zone section of ASHRAE.org.



**ASHRAE Pursues Certification Program**

ATLANTA – In response to member and market demand, ASHRAE is exploring a certification program that will focus on areas of the building environment such as commissioning, health care facility engineering, building operation, and sustainability.

The Society is pursuing partnerships with other HVAC&R related organizations.

“By offering certification, ASHRAE will make our members more valuable to the industry,” Terry Townsend, P.E., ASHRAE president, said. “Certification from ASHRAE will add professional credibility to their work, as well providing educational resources to better enable them in designing and operating buildings that are more efficient.”

A market research survey conducted by ASHRAE last year showed a strong interest by members in providing certification. More than 80 percent of members indicated that ASHRAE should

offer certification to individuals who complete a series of courses/seminars in a specific area of study.

In support of certification, ASHRAE will expand its existing educational program, known as the ASHRAE Learning Institute.

“The Learning Institute will continue to provide fundamental courses for those looking for lifelong learning and professional development,” Townsend said. “But we also must provide more specialty courses for those eager to keep up with the latest technology.”

The program is expected to launch in summer 2007.

In addition, ASHRAE is working make it easier for members to keep up with their current professional development hours to maintain existing professional registration.

“We are looking at tracking educational course attendance to qualify for professional development hours,” Townsend said.

“We must make it as easy as possible for our members to educate themselves so they can get ahead in their careers.”

ASHRAE, APPA Promote Sustainable Education Facilities

ATLANTA – The American Society of Heating, Refrigerating, and Air Conditioning Engineers (ASHRAE) and APPA, the association serving educational facilities professionals, have signed an agreement to provide mutual support in promoting sustainable higher education facilities.

The memorandum of understanding, signed July 10 by the two groups, announces ASHRAE’s and APPA’s intent to share resources to jointly promote educational programs, create new products, and encourage continuing professional development for their members. The associations also will explore cross-marketing each other’s products and services.

“The relationship between ASHRAE and APPA is crucial to furthering new advancements in HVAC&R technology,” said ASHRAE president Terry Townsend, P.E. “With this memorandum in place, ASHRAE and APPA members have the tools to provide ongoing technological solutions to educational facilities managers.”

“This agreement brings together the providers of equipment and technology and the owners and operators of that equipment and technology with a focus on improvement and environmental responsibility,” said Jack Colby, immediate past-president of APPA, who signed the agreement on APPA’s behalf. “This collaboration will enhance the efficiency of our facilities and improve our operations so that we may continue to provide a comfortable and welcoming experience for those people who work, study, and play in the environments we maintain.”

“APPA’s membership represents educational facilities professionals throughout North America,” Kent Peterson, P.E., ASHRAE president-elect who signed the agreement on behalf of ASHRAE, said. “This Memorandum of Understanding provides both organizations a vehicle to work together towards common goals in providing sustainable facilities and expanded training for building operators.”

ASHRAE, founded in 1894, is an international organization of 55,000 persons. Its sole objective is to advance through research, standards writing, publishing and continuing education the arts and sciences of heating, ventilation, air conditioning and refrigeration (HVAC&R) to serve humanity and promote a sustainable world.

APPA is the association of choice serving educational facilities professionals, representing more than 1,500 learning institutions encompassing over 4,700 individuals throughout the United States, Canada, and internationally. APPA promotes the vital role of facilities in the field of education and supports its members in the pursuit of excellence in the administration, care, operations, planning, and construction of educational facilities



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**ASHRAE Updates Existing Buildings Energy Standard**

ATLANTA – ASHRAE has updated its standard on energy conservation in existing buildings, designed to help owners maximize efficiency by improving operation, maintenance and energy monitoring.

ANSI/ASHRAE/IESNA Standard 100-2006, Energy Conservation in Existing Buildings, was updated to bring it in line with other ASHRAE guidance, specifically ANSI/ASHRAE/IESNA Standard 90.1-2004, Energy Standard for Buildings Except Low-Rise Residential Buildings, and the ASHRAE Handbook, HVAC Applications.

“Energy-saving practices for operation, maintenance and monitoring are essential for achieving sustainability in existing buildings,” Robert Fuller, vice chair of the Standard 100 committee, said. “It is important to ASHRAE and our members that we continue to provide stringent requirements for energy efficiency, and updating this standard helps us continue to be leaders in sustainability.”

Other changes incorporated in Standard 100-2006 include updated requirements for compliance that allow for newer technology, such as more efficient lighting, that has been made available since the last update, and a revised bibliography to reflect current documents and new publications.

The cost of the Standard 100 is \$33 (\$26, ASHRAE member). To order a copy of the standard, contact ASHRAE Customer Service at 1-800-527-4723 (United States and Canada) or 404-636-8400 (worldwide), fax 404-321-5478, by mail at 1791 Tullie Circle NE, Atlanta, GA 30329, or visit the ASHRAE.org Bookstore at www.ashrae.org.

ICC and ASHRAE Announce Significant Collaborative Effort

ATLANTA - The International Code Council (ICC) and ASHRAE signed a Memorandum of Understanding that will seek ways to optimize development of codes and standards to improve public safety. The organizations will work together on industry advocacy and public policy and explore joint business opportunities.

“The integration of leading edge technology via ASHRAE standards and guidelines into the building codes ensures the general public that the built environment will be efficient, healthy, comfortable and safe,” said ASHRAE President Terry Townsend. “This MOU will enhance both ASHRAE’s and ICC’s capabilities to have a positive impact on new construction and renovation activities in not only North American but also the international markets.”

The ICC model code system impacts the lives of millions of people every day in a positive way. The centerpiece of this system is an objective, scientifically based code development process, designed to achieve consensus on important health and safety issues.

A key element of this process is the use of consensus-based referenced standards like those produced by ASHRAE, developed through a fair and balanced process. Whether addressing structural performance or energy conservation, referenced standards serve to complement code text by providing the details and test methods necessary for effective code enforcement.

“This MOU with ASHRAE will help ICC members address some of the most important and contemporary issues facing building safety professionals today,” said ICC Chief Operating Officer Rick Weiland.

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The International Code Council, a membership association dedicated to building safety and fire prevention, develops the codes used to construct residential and commercial buildings, including homes and schools. Most U.S. cities, counties and states that adopt codes choose the International Codes developed by the International Code Council.

ASHRAE Sustainable Metrics Group to Develop Design Guidance

ATLANTA - A new technical research group focusing on sustainable building guidance and metrics has been created by ASHRAE.

The group will develop design guidance, performance metrics and rating systems to integrate indoor environmental quality, energy efficiency and other aspects of sustainable building performance.

“If you ask a group of engineers to look at a facility, you’ll get a variety of opinions about how that building is performing in regard to energy efficiency, indoor air quality and comfort,” said Bryan R. Becker, Ph.D., P.E., a member of ASHRAE’s Technical Activities Committee, which oversees Society technical committees. “Our goal is to develop metrics and rating systems that are repeatable, verifiable and that can be utilized globally.”

Those interested in joining the new group can email MORTS@ASHRAE.net for further details.

The group will work with other organizations to integrate HVAC&R systems with other building systems to enhance the effectiveness of total building design and integrated practice.

ASHRAE has some 100 technical committees, task groups and technical resource groups. These committees drive the ASHRAE research program, support the development of standards, develop and sponsor technical seminars and symposiums for ASHRAE meetings, review and draft technical articles, special publications and educational courses and write the ASHRAE Handbook, considered to be the Bible of the HVAC&R industry.



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