



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

LONDON CANADA CHAPTER #116
LondonCanada.AshraeChapters.org

OCT 24/2005

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Program

NFPA 96 AND THE USE OF VARIABLE VOLUME KITCHEN VENTILATION DESIGN

Thomas E. Mills P.Eng
Spring Air Systems

A recent ASHRAE sponsored a research project at the University of Minnesota that resulted in NFPA 96-2004 Standard for Ventilation Control and Fire Protection of Commercial Cooking Operations reducing the minimum exhaust velocity in a Type 1 grease duct from 1,500 fpm to 500 fpm. This change has opened the door for systems that reduce airflow.

FUTURE MEETINGS

Mon Nov 28/2005

Mon Jan 30/2006

Sunday Dec 11 - Special Event (ticket purchase required)
London Knights vs Guelph Storm (2pm Game Time)

Meeting - Monday Oct 24/2005

The Lamplighter Inn
591 Wellington Rd., London

>>> **NEW LOWER RATES FOR MEMBERS** <<<

London Chapter Members = \$25.00 Member's Meal Plan = \$125.00
Students = \$10.00 Others = \$35.00

MEMBERSHIP NIGHT

CASH BAR ALL YOU CAN EAT BUFFET
5:15-Social 6:00-Dinner 7:15-Program

If you plan on attending, and are not contacted by the telephone committee, please advise:
Scott Turner (ph:652-1977 scott@somersepp.com)



President's Message

Our program for the year is almost finalized; we have a list of the upcoming topics. Looked over the dates and topics and mark them on the calendar. All of these topics should be of some interest to many people in our industry; some who are not members of ASHRAE (Architects, Building Owners, and Contractors etc.) so please let them know as well.

Last months meeting was Student night and we had 8 students from University of Western and Fanshawe. It was a successful evening and we would like to thank the students and hope to see them again at some future meetings. We will be contacting some of our members for help in sponsoring the students.

This month's meeting will be Membership night. Our goal for the year is to get 10 new members to our London Chapter. If you know anyone who has expressed an interest in ASHRAE or who is new in the industry please contact myself (joe@smylicrow.com) or our Membership Chair, Jason Vanderberghe (jasonv@aquatech.ws)

The tickets for the December social night will be on sell this meeting. On Sunday December 11 we have a 54 seat box reserved at the John Labatt Centre for a London Knights vs. the Guelph Storm. Seats will be sold on a first come bases.

I look forward to seeing you at the meeting.

Joe Claessens
ASHRAE London Canada Chapter President

Speakers Bio

Thomas E. Mills P.Eng Spring Air

Graduated with Bachelors of Mechanical Engineering from the University of Waterloo in 1979. He has been involved in the Canadian heating and ventilating industry for 25 years and in the commercial kitchen ventilation industry for 21 years. He has personally listed "Commercial Kitchen Ventilating" equipment with both Canadian and American listing authorities. Mr. Mills is presently a partner in Spring Air Systems Inc. Spring Air Systems is a Canadian manufacturer of commercial kitchen ventilation equipment. Their products are certified and/or listed by Underwriters Laboratories of Canada Ltd., Underwriters Laboratories Inc., the Canadian Standard Association, and the National Sanitation Foundation

September Meeting Summary

Mr Mark Read, London Health Scions Centre spoke on energy savings that have been undertaken to the hospital building and departments. Several items dealt with reducing electrical power and scheduling of systems. LHSC has undertaken a long term program of measuring all forms of energy use (electrical, steam, water) and making comparisons to other facilities. Mark presented several initiatives that have already been undertaken with energy savings and payback periods.

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Student Activities

Our chapter is once again working with the 4th year HVAC course at UWO to better expose new students to the HVAC industry by having professionals help teach portions of the class. This was a great success last year! If you would be interested in offering some of your time and expertise, or would like to know more, please contact me at 690-3013, or by e-mail: jamie@smylicrow.com.

Jamie Whitty
Student Activities Chair, London Canada Chapter

SEPTEMBER 26 WAS STUDENT NIGHT

Special thanks go out to the following companies that sponsored a meal and ASHRAE membership for the students who attended our September meeting from UWO and Fanshawe College:

- HTS Engineering Ltd.
- Somers Environmental Products Inc.
- Aqua Tech Sales & Marketing Inc.
- Baymar Supply Ltd.
- Smylie & Crow Associates Inc.
- Pollard Engineering Ltd.

ASHRAE WINTER MEETING and AJHR EXPO

McCormick Place, Chicago

January 21-25, 2006

Conference information and registration forms are now posted on the www.ashrae.org web site.

SUN DEC 11 2:00pm SPECIAL EVENT

London Knights vs. the Guelph Storm

Game tickets available for purchase at the Oct 24 meeting. Just \$30.00 (includes game ticket and snacks withing the ASHARE London group booth during the game)



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Addenda Availability Changes - ASHRAE Implements New Process to Update Code-Intended Standards

As part of ongoing efforts to increase use of its standards, the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) has announced a major change to availability of addenda to code-intended standards. The move puts ASHRAE in line with issuance of model building codes.

In the past, addenda for code-intended standards on continuous maintenance were posted individually on ASHRAE.org after being approved by the Board of Directors for publication. Now, Board-approved addenda to code-intended standards will be published in a supplement. The supplements for each standard will be published on a regular schedule halfway between the three year publication of each standard. The addenda also will be incorporated into each standard when it is reissued after its last publication.

Richard Hermans, P.E., chair of ASHRAE's Standards Committee, acknowledges the change is significant.

"Our whole approach to how we relate to the building code industry is changing," Hermans said. "We are seeking more involvement with the model code development community to assist us in our code proposals. We are responding to member concerns over the cost of keeping up with our code-intended standards. By cost, I am not referring to the dollars spent for obtaining the updated documents but rather the cost in time to train employees about the new requirements contained in addenda. And we are aligning our release of certain standards to coincide with the model code schedules for code change proposals."

All of these actions point to a policy of releasing addenda on a predictable schedule spaced out over years, he said. "In this way, we will develop our code-intended standards in the same way that groups such as the International Code Council and the National Fire Protection Association, both of which incorporate ASHRAE standards, maintain their model codes," he said.

The change applies only to code-intended standards that are on continuous maintenance. These are:

- Standard 15, Safety Standard for Refrigeration Systems;
- Standard 34, Designation and Safety Classification of Refrigerants;
- Standard 52.2, Method of Testing General Ventilation Air Cleaning Devices for Removal Efficiency by Particle Size;
- Standard 62.1, Ventilation and Acceptable Indoor Air Quality in Commercial, Institutional, Industrial and High-Rise Residential Buildings;
- Standard 62.2, Ventilation and Acceptable Indoor Air Quality in Low-Rise Residential Buildings;
- Standard 90.1, Energy Standard for Buildings Except Low-Rise Residential Buildings;
- Standard 90.2, Energy Efficient Design of Low-Rise Residential Buildings;
- Standard 140, Standard Method of Test for the Evaluation of Building Energy Analysis Computer Programs.

The first supplements for standards published will be available in March 2006.

For more information on ASHRAE's work in standards, visit www.ashrae.org/standards.

Sustainability Topic of ASHRAE Satellite Broadcast/Webcast - April 19, 2006

A satellite broadcast is being offered by ASHRAE to fulfill its goal of promoting building sustainability as a means to provide a safe, healthy, comfortable environment while simultaneously limiting the impact on the Earth's natural resources.

Information about building sustainability principles, practices and emerging concepts will be presented in the free April 19, 2006, satellite broadcast and Webcast, Sustainability and the Building Environment. The program is sponsored by ASHRAE's Chapter Technology Transfer Committee (CTTC).

"This broadcast will benefit all of the team members involved in the design, construction, start-up, and operation phases of a facility," said Jon Christopher Larry, chair of CTTC. "Viewers will be given information and sources to assist them when they are faced with the situation where a green design must be done. The green building industry will also benefit from the engineering input from ASHRAE."

The speakers for the broadcast will provide guidance on how to practice green building design. They are: Joe Van Belleghem, president, BuildGreen Developments, Victoria, Canada; Hal Levin, Fellow ASHRAE, research architect, Building Ecology Research Group, Santa Cruz, Calif.; Jean Lupinacci, director, ENERGY STAR commercial and industrial branch, Climate Protection Partnerships Division, U.S. Environmental Protection Agency; Kevin Hydes, P.E., P.Eng., president and CEO, Keen Engineering, Montreal, Canada; and Malcolm Lewis, Ph.D., P.E., president, CTG Energetics, Irvine, Calif.

The broadcast will be similar to the April 2005 Mold in the Building Environment Broadcast/Webcast viewed by some 16,000 viewers at 1,700 locations. Visit www.ashrae.org/greenbuildingsbroadcast for the latest information regarding the broadcast/Webcast and ASHRAE's work on sustainability.



Comment on Proposed ASHRAE Standard - Proper Ventilation Integral Part of Patient Care

Just as the right dose of medication can improve their health, proper ventilation is an integral part of patients' well-being in health care facilities. Requirements to ensure high quality ventilation can be found in ASHRAE's proposed standard 170P, Ventilation of Health Care Facilities. The proposed standard is open for public comment from Sept. 23-Nov. 7, 2005. The standard is being developed by ASHRAE and the American Society for Health Care Engineering.

"Without high quality ventilation, patients, health care workers and visitors can become infected through normal respiration of particles in the air," Richard Hermans, P.E., chair of the committee writing the standard, said. "Poorly ventilated health care facilities are places where the likelihood of pathogenic particles occurring in the air is quite high. Because such pathogens can be found everywhere in health care facilities and because patients are susceptible to them, additional care should be taken in the design of ventilation systems."

The proposed standard will define requirements for ventilation system design intended to provide environmental control for comfort, as well as infection and odor control.

It addresses systems and equipment, space ventilation for a variety of areas in health care facilities, including airborne infection isolation rooms, critical care units, burn units, surgery rooms, and Class B and C operating rooms, and planning, construction and system startup.

Drafts of ASHRAE's proposed standards and guidelines are available only during their related public review periods. To obtain electronic draft versions of the Standard 170P during the comment periods, visit ASHRAE.org at www.ashrae.org/standards.

'06 ASHRAE Winter Meeting - Using Integrated Design to Achieve Sustainability

In designing buildings, professionals should work together to determine points of integration between various building systems, architecture and the environment. Only when this integrated design is achieved will buildings become truly sustainable, according to Kirk Mescher, chair of ASHRAE's Program Committee. Several sessions relating to integrated or sustainable design will be presented at the American Society of Heating, Refrigerating and Air-Conditioning Engineers' 2006 Winter Meeting, Jan. 21-25, Chicago, at the Palmer House Hilton. One-hundred and four sessions will be presented as part of the technical program. The complete technical program can be found at www.ashrae.org/chicago.

Integrated design is an all-encompassing design strategy that should integrate architecture, engineering, building use, location and utilities into a building form that meets or exceeds the requirements of the integrated components, according to Mescher.

"Green building design has grabbed headlines," he said. "As a subcomponent of integrated building design, green building design has become the marketing measure of forward thinking for engineering professionals. As a minimum, design teams should be asking: 'Why can a building not recognize when the occupants arrive and turn on the necessary building functions to support occupants? Can the heating and cooling system be integrated with the building architecture to minimize the need for mechanical support? Can the building control system be integrated with communication, alarm, security and other electronic systems?'"

Among the sessions is a symposium on creating low-energy buildings through integrated design. It includes case studies of low-energy, sustainability and integrated design in residential and commercial buildings. A seminar focuses on HVAC&R buildings systems and how they interact with the local environment, including discussion on cooling tower water, district energy and acoustic concerns. While many non-profits have incorporated green building design, for-profit entities are just beginning to examine green in operating strategies and projects. A seminar examines how green is good for business as well as the environment. A forum seeks input on the barriers to using air-to-air energy recovery for sustainable HVAC systems. Energy recovery ventilation is a key equipment solution to providing efficient and sustainable HVAC&R systems.

The technical program is comprised of 62 seminars (presentations on a central or related topic with no published papers), 14 symposia (presentations with papers on a central subject), 26 open-discussion forums, a poster session and a public session. A total of 73 papers will be presented. Held with the ASHRAE Winter Meeting is the ASHRAE co-sponsored International Air-Conditioning, Heating, Refrigerating Exposition, Jan. 23-25, at McCormick Place. For more information, contact International Exposition Company at 203-221-9232, info@ahrexpo.com, www.ahrexpo.com.

Registration for the 2006 ASHRAE Winter Meeting is \$635 (\$375, ASHRAE member) prior to Dec. 2. After Dec. 2, the registration fee will be \$750 (\$490, ASHRAE member). For more information or to register, visit www.ashrae.org/chicago.



ASHRAE Research Plan Provides Guide for a Sustainable Future

Providing navigation for a sustainable future is the goal of a new research strategic plan developed by the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE). The plan outlines ASHRAE's research goals for the next five years. It centers on sustainability, which is defined as "the concept of maximizing the effectiveness of resource use while minimizing the impact of that use on the environment."

"Research and technology are the foundation of ASHRAE on which everything else is built," said John Mitchell, Ph.D., P.E., chair of the Research Advisory Panel that developed the plan. "With issues related to energy conservation, refrigeration and indoor air quality facing our industry, our foundation must remain strong."

The plan contains goals in five targeted areas. These include:

Energy and Resources

- Provide guidance on techniques to working toward achieving net zero-energy use by 2015, meaning buildings that consume equal or less energy than they produce on an annual basis.
- Produce by 2015 new residential and light commercial buildings that have 70 percent less energy use than buildings built at the turn of the millennium according to ASHRAE Standard 90.2, Energy-Efficient Design of Low-Rise Residential Buildings.
- Optimize and make consistent ASHRAE Standards 90.1, Energy Standard for Buildings Except Low-Rise Residential Buildings, 62.1, Ventilation for Acceptable Indoor Air Quality, and 55, Thermal Environmental Conditions for Human Occupancy, to achieve measured and verified high system energy efficiency with high indoor environmental quality (IEQ) for indoor built environments.

Indoor Environmental Quality

- Make improvements in occupant health and comfort that can yield a 20 percent increase in productivity by 2015
- Provide an optimal indoor environment for buildings, vehicles and facilities with respect to comfort, productivity, health and safety.
- Provide better understanding of how contagious viruses are transmitted in an indoor environment and develop remediation techniques and equipment to minimize exposure.

Tools and Applications

- Develop more effective tools that will improve the productivity of the design process by 25 percent by 2015.
- Develop dual path standards where paths are prescriptive based and performance based.
- Develop a measurement-based rating system to establish the environmental performance of a building and its system.
- Provide design guidance for buildings and systems to address the past and expected change in climatic conditions.

Equipment, Components and Materials

- Establish techniques to improve the energy efficiency and reliability of heating, ventilating, cooling and refrigeration system components.
- Improve performance and reliability and minimize the environmental impacts of working fluids and materials.
- Advance ASHRAE's role in the safety and security of food distribution.
- Develop techniques that reduce the installed energy use of HVAC&R system auxiliary equipment by 50 percent by 2015.

Education and Outreach

- Make the results of ASHRAE sponsored and cooperative research available to the technical community.
- Ensure that ASHRAE research has an international impact.

To view the plan or for more information on ASHRAE's research program, visit www.ashrae.org/research.

**ASHRAE LONDON 2005 - 2006 PROGRAM**

<u>DATE</u>	<u>SPEAKER</u>	<u>TOPIC OF DISCUSSION</u>
Sept. 26, 2005 Student Nihgt	Mark Read LHSC	London Hospitals & Energy Conservation
Oct. 26, 2005 Membership Night	Tom Mills, P.Eng. Spring Air Systems	NFPA 96 and the Use of Variable Volume Kitchen Ventilation Design
Nov. 28, 2005 Research Night	Craig Fischbach Florida Heat Pump	Heat Pump Technology
Dec. 11, 2005	Social Event	Knights Game 2:00PM
Jan. 30, 2006	John Paleczny	Linkagless Controls
Feb. 27, 2006	Union Gas	Updates To Ontario Gas Code
Mar. 27, 2006	Tour	TBA
Apr 19, 2006	Satellite Broadcast/Webcast	Guidance on How To Practice Green Building Design
Apr. 24, 2006	William J. Coad, P.E. Coad Engineering Enterprises ASHRAE Distinguished Lecturer	The Ethics & The Economics of Energy Conservation
May 2006	Golf Tournament	Forest City National

If you have a particular topic or speaker that you would like to see/hear, please contact:
Scott Turner (ph: 652-1977 email: scott@somersep.com)