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ASHRAE '07 in Dallas
ASHRAE Winter Meeting Centers on Energy Efficiency

ATLANTA – ASHRAE will be showing off its technical expertise at the 2007 AHR Expo in January. For the first time, 16 technical sessions will be held at the AHR Expo during the 2007 ASHRAE Winter Meeting in Dallas. Designed to share ASHRAE's technical guidance with Expo attendees, the sessions include topics such as vibration control, energy-efficient ventilation systems, using ground-source heat pumps in schools, and new BACnet capabilities.

“Offering attendees an opportunity to learn about the latest advancements in technology via the technical program complements the Expo, which features those advancements being incorporated into products and equipment,” says Ginger Scoggins, chair of the program committee. “These sessions make ASHRAE's meeting and top-rate technical program more visible while at the same time drawing more meeting attendees to the expo.”

In addition, ASHRAE will present a comprehensive technical program at the Adam's Mark Hotel, January 28-31. The overall six-track technical program centers around energy efficiency in buildings and includes such seminars as Achieving a 50 Percent Approach to Net Zero Energy Use in Buildings and Risk Management of Infectious Airborne Diseases. The technical program consists of 67 seminars plus the 16 seminars at the convention center, 12 open-discussion forums, one public session, one poster session with 21 papers presented, and 18 transaction sessions with a total of 48 papers presented.

Also new for this year is the technical plenary speaker, National Geographic Magazine Executive Editor Dennis Dimick. Dimick, a picture editor specializing in environmental stories for more than 15 years, will address technical program attendees between sessions on Sunday, Jan. 28 at 9:30 a.m. at the Adam's Mark hotel about a 2004 project he oversaw on global climate change. Meeting registration is required to attend.

Registration for the 2007 ASHRAE Winter Meeting is \$630 (\$360, ASHRAE member) prior to Nov. 17. After Nov. 17, the registration fee will be \$655 (\$385, ASHRAE member). The deadline for advance registration is December 15. For more information or to register, visit www.ashrae.org/dallas.

Held with the ASHRAE Winter Meeting is the ASHRAE co-sponsored International Air-Conditioning, Heating, Refrigerating Exposition, Jan. 29-31, at the Dallas Convention Center. For more information, contact International Exposition Company at 203-221-9232, info@ahrexpo.com, or visit www.ahrexpo.com.

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Focus on Small Retail
ASHRAE Releases Next Advanced Energy Design Guide

ATLANTA – Buildings designers are one step closer to a net-zero energy building.

Published by the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE), the Advanced Energy Design Guide for Small Retail Buildings is the second in a series of publications that cover various types of building construction. Intended for use by builders, contractors and architects, the guide covers energy-efficient design for retail buildings up to 20,000 square feet.

“The purpose of the design guide is to provide a simple, prescriptive menu of options that will result in a building using 30% less energy than those constructed in accordance with the 1999 version of ASHRAE Standard 90.1, the foundation for energy efficiency in building codes throughout the United States,” said Merle McBride, chairman of the committee overseeing the book’s creation. “Those looking to achieve a LEED certification from the U.S. Green Building Council (USGBC) will find this guide particularly useful.”

The guide offers energy efficiency guidance in many areas, including lighting, HVAC efficiencies, windows, skylights and envelope measures. A major difference from Standard 90.1 is that the guide provides equipment efficiencies by climate zone to take into account varying environmental factors, instead of having one number for the entire United States.

The guide resulted from collaboration among ASHRAE, the Department of Energy, USGBC, Illuminating Engineering Society of North America (IESNA) and the American Institute of Architects (AIA). The retail industry provided guidance to the guide’s development team to ensure building owner perspectives were considered when forming design recommendations. To help in future editions, users of the guide will be able to provide feedback via an Internet link.

The guide is part of a series of ASHRAE publications that will progress toward providing net-zero energy designs for buildings of various types. The first publication in the series focused on small office buildings, and the next energy design guide will address K-12 schools.

“This is a long-term endeavor by ASHRAE,” said McBride. “ASHRAE is focusing on improving the energy efficiency of the nation’s building stock, targeting where the greatest energy-saving impact can be achieved.”

The cost of the Advanced Energy Design Guide for Small Retail Buildings is \$59 (\$49, ASHRAE members). To order, 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.

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Learn to Meet, Beat 90.1 Requirements with new eLearning Course

ATLANTA – Guidance to help users design buildings that are in compliance with ASHRAE’s energy efficient standard is available through a new online learning course.

The Fundamentals of Standard 90.1 is the newest offering in ASHRAE’s eLearning system, which provides on-demand, interactive online courses that include hardbound and online course reference books, online self-assessment and continuing education credits.

ANSI/ASHRAE/IESNA 90.1-2004, Energy Standard for Buildings Except Low-Rise Residential Buildings, has become the basis for building codes, and the standard for building design and construction throughout the United States.

“The new eLearning course is designed to help you go through the standard and learn about each of the requirements,” said Carol Marriott, P.Eng., a former member of the Standard 90.1 committee who helped develop the new module. “In school, you had assignments to enforce retention of the concepts you learned. The eLearning course is designed exactly the same way, in that it reinforces learning by providing questions to practice the concepts learned, and applying the 90.1 requirements to sample questions. Most users will hardly even realize they are learning as it is designed for users to have fun while doing the work.”

The course explains:

- The detailed requirements of the standard so that they can be applied in designing buildings that are in compliance with 90.1;
- How to use available resource material, such as the standard and the User’s Manual, to design and construct building in compliance with the standard;
- How to complete compliance documentation in a satisfactory manner the first time; and
- How to translate the key principles of the standard to local and state adaptations.

Marriott said the course is one of three key elements in learning about the requirements, along with the actual standard and the Standard 90.1 User’s Manual.

The course is the second in ASHRAE’s eLearning system. The first, Fundamentals of HVAC Systems, provides a thorough and comprehensive introduction to how HVAC systems function in controlling temperature, air quality, and air circulation in a conditioned space.

For more information about ASHRAE eLearning Systems, visit www.ashrae-elearning.org.

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ASHRAE, Canada Green Building Council Partner to Advance Sustainability

ATLANTA – The American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) and the Canada Green Building Council (CaGBC) will work together to advance buildings that are healthy, productive, environmentally responsible and economically viable.

The two organizations, both of whom are committed to green building and sustainable community development, have signed a memorandum of understanding.

The memorandum calls for ASHRAE and the Council to join efforts in development and maintenance of technical standards and guidelines, communications and marketing, and research and education of members and the building industry.

“This year, ASHRAE has renewed focus in working with other organizations to share and further our technical guidance,” Terry Townsend, P.E., ASHRAE president, said. “Working with the CaGBC will allow us to improve on our efforts in achieving energy savings without sacrificing comfort, air quality or productivity.”

Thomas Mueller, president of the CaGBC, also is enthusiastic about the new collaboration.

“The CaGBC shares ASHRAE’s interest in the opportunities to evolve the technical aspects of buildings,” he said. “The work we can do together in Canada will benefit not only our respective memberships but anyone interested in engaging in better building practices.”

The CaGBC was established in December 2002 to promote and accelerate the design and construction of high performance buildings for livable communities. The Council advances market transformation through advocacy, education, application and development of tools, and celebration of demonstrably superior performance. The CaGBC membership represents a reach of more than 500,000 public and private sector professionals across Canada.

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Become Part of the Green Team: New Guidance from ASHRAE

ATLANTA – Looking to become a more effective player on the green team?

ASHRAE GreenGuide: The Design, Construction and Operation of Sustainable Buildings will help teach designers how to participate effectively on design teams charged with producing green buildings.

“This is a design guide for mechanical engineers who are interested in advancing integrated, high performance/green concepts and applications on building design projects,” said Malcolm Lewis, Ph.D., a member of ASHRAE’s technical committee on building environmental impacts and sustainability, which wrote the book. “The guidance will help building professionals analyze system design options and point them in the right direction for deeper analysis.”

The book, an update to the 2003 version of ASHRAE GreenGuide, contains a new chapter outlining guidance on the Leadership in Energy and Environmental Design (LEED™) Rating System developed by the U.S. Green Building Council. The chapter discusses ways in which LEED credits affect engineers and how they can best respond to the opportunities presented by the use of LEED on projects.

“The GreenGuide will assist the design and development team in striving for a level of accountability as to the effectiveness of their efforts to produce a building that is truly green,” Lewis said.

The book also contains a new chapter on how HVAC&R systems interact with the local environment and methods for mitigating or reducing that impact.

“There are some areas that are either not intuitively obvious as being potential impacts of HVAC systems or are items that some may not consider to be truly sustainable issues,” Lewis notes.

The ASHRAE GreenGuide also contains more than 40 GreenTips, which are sidebars containing information on techniques, processes, measures or systems. The tips contain a list of other sources for reference. To read the GreenTips, visit www.engineeringforsustainability.org.

This is the first in a new series of books, known as The ASHRAE Professional Series, published in cooperation with Butterworth-Heinemann/Elsevier. The series is intended to provide high-quality professional information for a global audience of HVAC&R engineers as well as professionals in related fields.

The cost of the ASHRAE GreenGuide is \$79.95 (\$62.95, ASHRAE members).

To order, 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.

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