



ASHRAE NATIONAL NEWS

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Re-Engineering the Past: Congressional Briefing Held on High-Performing Historic Buildings

ATLANTA – Historic buildings don't have to remain in the past when it comes to energy efficiency.

Instead, such structures can maintain their historical characteristics and also take advantage of new technologies and products that will improve their energy use. A briefing for Congressional staff on turning older structures into high-performing historic buildings will take place from 11:30 a.m.-1 p.m. April 15 in 12 Cannon House Office Building.

The briefing is sponsored by the High-Performance Building Congressional Caucus Coalition, which works to heighten awareness and inform policymakers about the major impact buildings have on health, safety and welfare. ASHRAE serves as the Coalition's secretariat and is a leading sponsor of the briefing with the American Institute of Architects and the National Trust for Historic Preservation.

"As the saying goes 'the most sustainable building is one you never have to build,'" Doug Read, ASHRAE program director of government affairs, said. "Historic buildings already have a significant amount of embodied resources in the bricks and mortar, so it only makes sense to maintain the historic nature of the structure while improving its energy efficiency."

Rep. Judy Biggert, R-Ill., Rep. Russ Carnahan, D- Mo., and Rep. Mike Turner, R-OH, will provide welcome remarks.

Speakers are:

- Emily Wadhams, vice president of public policy at the National Trust for Historic Preservation, giving an introduction to historic buildings.
- Patrick Lally, director of congressional affairs for the National Trust for Historic Preservation, speaking on opportunities for high-performance, policies and technologies.
- Ralph DiNola, Assoc. AIA, principal with Green Building Services, who will provide examples of high-performance historic buildings.

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ASHRAE Provides Federal Recovery Act Resources

ATLANTA – With U.S. economic recovery stimulus funds coming down the pipeline, state and local governments have a once-in-a-lifetime opportunity to upgrade and modernize the nation's infrastructure.

To encourage investment in projects with the greatest long-term impact, ASHRAE has put together resources to help its members engage decision-makers in identifying and planning projects in their areas. Two resource packages related to recovery funding and energy efficiency in schools are being distributed to ASHRAE's 124 chapters in the United States, encompassing some 35,000 members. The packages and supporting information can be found at www.ashrae.org/recovery.

"The American Recovery and Reinvestment Act provides significant funding to federal agencies and state and local governments for the improvement of government-owned infrastructure," Bill Harrison, ASHRAE president, said. "ASHRAE members have the knowledge, experience and resources to assist state and local governments in determining projects with the greatest value and return on investment."

An ASHRAE Member's Guide to Recovery Funding provides information on the American Recovery and Reinvestment Act, areas of funding, resources available and tips for engaging state and local decision makers.

Energy Efficiency in Schools, Smart Investments of Recovery Funding provides information targeted to school administrators and state recovery fund managers to encourage investment in energy efficient schools.

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ASHRAE Funds Research into Keeping Kitchen Staff Cool and Comfortable

ATLANTA – As the old saying goes, "if you can't stand the heat, get out of the kitchen." But for the 12.2 million people in the United States employed in the restaurant industry, getting out of the kitchen is not an option.

Seeking to provide a cool and comfortable working environment for those kitchen workers, ASHRAE is funding research in thermal comfort in commercial kitchens.

A 2005 report by the Restaurant Opportunities Center of New York and the New York City Restaurant Industry Coalition found that “nearly half of the 530 workers surveyed reported that it gets unsafely hot in the kitchen where they work.”

“Understanding thermal comfort in commercial kitchens is paramount to understanding and providing a controlled and comfortable environment for kitchen workers,” said Greg Duchane, a member of ASHRAE’s technical committee 5.10 on kitchen ventilation that is overseeing the project and manager of retail market sales, Trane Commercial Systems. “This research can be used by engineers and kitchen consultants in designing HVAC systems and in the operation of restaurants. It will give us more accurate understanding of employee comfort and how employees are impacted by heat loads.”

The research will include walk-in surveys and on-site data collections of operational commercial kitchens in selected cities across the United States.

ASHRAE is accepting proposals on this and 16 other proposed research projects. Submissions are due May 18, 2009. For more information, visit www.ashrae.org/research.

The projects are scheduled to begin Sept. 1, 2009. Projects are:

- 1339-RFP, *Selection of Desiccant Equipment at Altitude*, sponsoring technical committee: TC 8.12, Desiccant Dehumidification Equipment and Components
- 1369-TRP, *Design Guidelines to Prevent Snow Causing Shutdown of HVAC Systems*, TC 5.2, Duct Design
- 1385-TRP, *Development of Design Tools for Surface Water Heat Pump Systems (SWHP)*, TC 6.8, Geothermal Energy Utilization
- 1404-TRP, *Measurement, Modeling, Analysis and Reporting Protocols for Short-term M&V of Whole Building Energy Performance*, TC 4.7, Energy Calculations
- 1409-TRP, *Stability of Candidate Lubricants for CO₂ Refrigeration*, TC 3.2, System Chemistry
- 1413-TRP, *Developing Standard Procedures for Filling Climatic Data Gaps for Use in Building Performance Monitoring and Analysis*, TC 4.2, Climatic Information
- 1415-TRP, *Thermal and Lighting Performance Metrics of Tubular Daylighting Devices*, TC 4.5, Fenestration
- 1420-TRP, *Inlet and Discharge Installation Effects on Airfoil (AF) Centrifugal PLENUM/PLUG Fans for Air and Sound Performance*, TC 5.1, Fans
- 1448-TRP, *Ventilation Requirements for Refrigerating Machinery Rooms*, TC 4.3 - Ventilation Requirements & Infiltration

- 1467-TRP, *Balancing Latent Heat Load Between Display Cases and Store Comfort Cooling*, TC 10.7, Commercial Food Display and Storage Equipment
 - 1469-TRP, *Thermal Comfort in Commercial Kitchens*, TC 5.10, Kitchen Ventilation
 - 1478-TRP, *Measuring Air-tightness of Mid- and High-Rise Non-residential Buildings*, TC 4.3, Ventilation Requirements and Infiltration
 - 1507-TRP, *Binary Refrigerant Flame Boundary Concentrations*, TC 3.1, Refrigerants and Secondary Coolants
 - 1512-TRP, *CFD Resource Decisions in Particle Transport Modeling*, TC 4.10, Indoor Environmental Modeling
 - 1515-TRP, *Thermal and Air Quality Acceptability in Buildings that Reduce Energy by Reducing Minimum Airflow from Overhead Diffusers*, TC 2.1, Physiology and Human Comfort
 - 1522-TRP, *Establishment of Design Procedures to Predict Room Airflow Requirements in Partially Mixed Room Air Distribution Systems*, TC 5.3, Room Air Distribution
 - 1544-TRP, *Establishing Benchmark Levels and Patterns of Commercial Building Hot Water Use*, TC 6.6, Service Water Systems
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In a Down Economy, an Uplifting Conference: ASHRAE 2009 Annual Conference in Louisville

Program on optimal indoor air quality provides essential skills and networking

ATLANTA – In the current economic environment, networking and business development opportunities are more important than ever. With its nearly 100 educational sessions, the technical program at ASHRAE's Annual Conference provides the perfect environment for developing new skills and contacts.

"Why attend the ASHRAE Annual Meeting in Louisville? Professional preservation is the purely selfish reason to attend," says Kirk Mescher, chair of ASHRAE's Conferences and Expositions Committee. "When working in HVAC&R, you need to be well educated on upcoming changes and new codes and standards, all of which are covered in the technical program. Those who develop the Handbooks and standards are there at the meeting; you should be too. "

With a focus on optimal indoor air quality, the technical program runs June 21-24, at the Galt House Hotel in Louisville, Ky., with sessions on nearly every aspect of HVAC&R, from staying current with design practices to commissioning and good engineering business practices. New this year is the full range of programs scheduled in the buildings track. Complete program details are available at www.ashrae.org/louisville.

The technical program features a large building systems track that begins with an introduction to large buildings and addresses sustainable large building design, energy modeling, smoke control and specifically indoor sports facilities, entertainment venues, and museums and libraries. Other tracks with multiple programs include systems and equipment, indoor air quality, exergy and sustainability.

The program includes 60 seminars, 15 forums, more than 90 papers presented, and a technical plenary on Sunday that outlines the potential needed adaptation of cities and buildings for climate change. Sue Roaf, Ph.D., Heriot-Watt University, Edinburgh, Scotland, speaks about the concept of the low-carbon building and how we can make them happen while we redesign the built environment for the future.

Sessions of interest include:

- Seminar 7, *ASHRAE Members' Survival Guide: Keeping Your Business Alive and Well During Difficult Economic Times*
- Seminar 8, *Case Studies of Moisture Management Issues in Litigation*
- Seminar 31, *Contracts?? (Ugh! Boring!) A Comparison of the AIA 2007 and AGC ConsensusDocs Contract Forms*
- Seminar 2, *Energy Use and Efficiency in Healthcare Facilities*
- Seminar 39, *Defining the Contribution of Fans in Achieving the Goals of ASHRAE Standard 90.1*
- Seminar 14, *Balancing Indoor Air Quality and Energy Conservation/Efficiency Objectives in Schools*
- Transactions 17, *Issues with Ventilation and Indoor Air Quality in ASHRAE Residential Standards*
- Seminar 28, *Real World BIM for the HVAC Engineer*
- Seminar 54, *Optimal Air Quality: Control of Ozone*
- Seminar 37, *Cost Impacts of ASHRAE's New IAQ Guide*
- Seminar 59, *Using Cx to Improve Sustainability and IAQ of Existing Buildings*

For more information on ASHRAE's 2009 Annual Conference, please visit www.ashrae.org/louisville. [Conference registration is \\$670](#) (\$505 for members).

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Call for Papers Announced for CLIMA 2010 World Congress

ATLANTA – Sustainable energy use in buildings is the focus of the CLIMA 2010 World Congress that takes place May 9-12 in Antalya, Turkey.

Organized every four years by the European Federation of Heating and Ventilating Associations (REHVA) and co-sponsored by ASHRAE, the Congress is seeking papers on a variety of topics related to sustainable energy use in buildings.

The conference themes include sustainable energy systems, sustainable buildings-Low exergy buildings, energy performance of buildings, high performance and green buildings, energy efficient heating and cooling systems, NZEB enabling technologies such as integrated building systems, labeling and grading of buildings, HVAC systems, HVAC system design and performance, maintenance and operation of HVAC systems, domestic water and waste systems, large building HVAC systems, district cooling and heating, indoor environment, health and productivity, natural and hybrid ventilation systems, moisture and humidity, architectural design integration, building industry, building services, refurbishment, historic preservation and renovation of historical buildings, ICT and intelligent buildings, and lighting.

Abstracts are due by June 30, 2009. For complete conference information and to submit abstracts, visit www.clima2010.org.

For questions about ASHRAE's involvement in CLIMA 2010, contact Steve Comstock, ASHRAE publisher, at comstock@ashrae.org

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ASHRAE Publishes Risk Management Guideline

ATLANTA – A new guideline from ASHRAE will assist building owners and managers in analyzing what measures should be put in place to protect occupants and property from extraordinary events. These include natural (fire, storm), accidental (transportation or building mishaps) or intentional (arson, terrorism).

ASHRAE Guideline 29-2009, *Guideline for the Risk Management of Public Health and Safety in Buildings*, provides guidance for the practical evaluation, design and implementation of measures to reduce multiple risks in new and existing buildings. The risks relate to fire, seismic events, chemical and biological releases, blasts and other extraordinary hazards.

“Guideline 29 is the first guidance document on building protection developed by an industry group consisting of a range of stakeholders including engineers, architects, contractors, building owners and others,” George Glavis, chair of the committee that wrote the guideline, said. “It provides a flexible approach to risk assessment for the range of health and safety hazards that may apply to any given building and thereby enables informed decision making.”

It addresses aspects of building performance that affect occupant health and safety, including egress; chemical, biological, and radiological protection; fire protection; smoke removal or purging; filtration; air quality; entrance paths for contaminants; and building envelopes.

The cost of ASHRAE Guideline 29-2009, *Guideline for the Risk Management of Public Health and Safety in Buildings*, is \$54 (\$46, 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, or visit at www.ashrae.org/bookstore.

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ASHRAE Seeks Applicants for Department of Energy Fellowship

ATLANTA— ASHRAE members looking to assist with national energy code deployment and compliance can apply to a new fellowship being sponsored by the American Society of Heating, Refrigerating and Air-Conditioning Engineers.

ASHRAE is seeking members to apply for a fellowship with the Department of Energy. The selected person would be placed in the DOE's Office of Building Technologies, Building Energy Codes Program. The fellowship would last from 12 to 18 months, depending on the office's needs and the qualifications of the applicant.

"This fellowship will give an engineer or scientist with a unique opportunity to participate directly in the policy implementation process, all while providing a valuable public service," says Doug Read, ASHRAE's program director of government affairs. "This enriching experience will enable the Fellow to bring back to their employers an insider's perspective on government decision-making that can contribute significantly to the mission and vision of the organization."

The placed individual will work in one of the following areas:

- **Code compliance**, working to establish three compatible template processes and procedures for state evaluation of state code compliance.
- **Residential duct test training**, including preparing training materials for the new duct testing requirements in the 2009 IECC, including strategic options for practical code enforcement and compliance.
- **Assessment of the impact of updating state energy codes**, including preparing reports of the impact of updating state building energy code to meet Standard 90.1-2010 based on EnergyPlus analysis of benchmark buildings and cost databases.
- **Advanced energy code training**, including prepare training materials for six areas of advanced commercial building energy code training to assist designers to meet, and code officials to inspect.

The successful applicant will be expected to participate in Building Technologies Program staff meetings, Building Energy Codes monthly deployment meetings the Energy Codes National Workshops, and the building energy Codes Program review.

A minimum stipend of \$50,000 per year will be provided. ASHRAE members interested in the position can contact Doug Read at (202) 833-1830 or dread@ashrae.org. Applications are being now being accepted and will be reviewed on a rolling basis.