



# The HVAC&R Industry

A weekly eNewsletter from ASHRAE



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Advancing HVAC&R To Serve Humanity  
And Promote a Sustainable World

The HVAC&R Industry, ASHRAE's free weekly eNewsletter for HVAC&R professionals, provides relevant, timely information about industry and technology for people who create healthy, comfortable indoor environments.

## Industry News

### 2008 AHR Expo-Mexico Will Be Largest Ever

WESTPORT, Conn.—The 2008 AHR Expo<sup>®</sup>-Mexico will be the largest in the Show's history. The Show on Sept. 23–25 in Monterrey, Mexico, will feature more than 350 exhibitors in more than 56,000 ft<sup>2</sup> (5200 m<sup>2</sup>) of exhibit space. Exhibitors will represent 15 countries. In addition to the product exhibits, visitors will have the opportunity to attend more than 40 educational sessions organized by the ASHRAE Monterrey Chapter.

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### Government Construction Spending Increases Despite Residential Decline

WASHINGTON—Construction spending by federal, state and local governments has reached the highest levels on record, despite a decline in home building, the U.S. Department of Commerce and the U.S. Census Bureau reported this week. Building of new homes and apartments fell in July to its lowest level since 1991. However, the boom in government projects has picked up some of the slack. Governments are on track to spend a record \$300 billion this year on schools, roads, bridges and other projects. Government projects now generate more spending than residential construction. In 2005, residential construction generated more than twice the amount spent on government projects.

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### Blue, Red Parties Go Green at Conventions

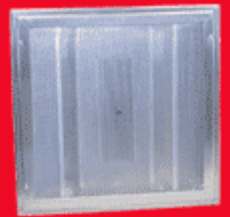
DENVER—Democrats claim that their national convention is the greenest ever. The 50,000 people attending this week are eating with dinnerware and cups made of corn-based plastic. Seven hundred volunteers are on hand to explain how to separate items for recycling. The stage is made up of 80% reused material. The Republicans also boast on their Web site that they're "committed to making this year's nominating convention in Minneapolis-St. Paul the 'greenest' in party history." The Republican national convention will feature recycled furnishings and paper products, flex-fuel and hybrid vehicles and other energy-conservation measures.

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### NREL Scientists Create Most Efficient PV Device

WASHINGTON—Scientists at the U.S. Department of Energy's (DOE) National Renewable Energy Laboratory (NREL) have created a photovoltaic device that converts 40.8% of the

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light that hits it into electricity. This is reportedly the highest confirmed efficiency of any photovoltaic device to date. According to DOE, the new device is a candidate for the space satellite market and for concentrated photovoltaic arrays on land.

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### [California Passes CO Legislation](#)

ROSSLYN, Va.—The California legislature has passed legislation that requires the installation of carbon monoxide (CO) detection devices in all homes, apartments and hotels. The bill now goes to the governor for his signature. California will become the third state this year to codify CO protection, joining Wisconsin and North Carolina.

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## ASHRAE News

### [ASHRAE, The Green Grid Collaborate on Data Center Efficiency](#)

An agreement between ASHRAE and The Green Grid is expected to result in publications that provide improved guidance for data center design and operation. The cooperative publication agreement encourages the sharing of technical information, particularly guidance regarding energy efficiency. The Green Grid is a global consortium dedicated to advancing energy efficiency in data centers and business computing ecosystems.

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## Feature of the Week

### [Strategies for Improving IAQ](#)

By **James E. Megerson, P.E.**, Member ASHRAE; and **Chris Torline, P.E.**, Associate Member ASHRAE

This article presents a case study of a high school located in a suburb of Kansas City, Kan., which experienced several IAQ issues associated with increasing student population and limitations of the existing mechanical systems. The design team employed by the school district devised a solution using highly efficient equipment and control systems that provided energy savings above the additional energy required to condition the increased amount of ventilation air.

This article was originally published in May 2006. [Click here](#) to download the article. It will be available here through Sept. 11.

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After Sept. 11, access to the article from this eNewsletter will no longer be available. It will remain available for free download by Members [here](#) and for purchase by nonmembers in the [ashrae.org bookstore](#).

## Product News

### [Building Performance Analysis Software From IES](#)

BOSTON—Integrated Environmental Solutions (IES) announces version 5.9 of IES Suite, a package of building performance analysis tools that enables designers to look at how key design and climate factors influence the sustainable performance of a building. The

software allows users to record camera path animations to create 3-D models, and to create textured renderings. The software also enables airflow visualization, including display of bulk airflow through openings, and room color coding according to result/input data thresholds.

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#### [Commercial Ventilation Fans From RenewAire](#)

MADISON, Wis.—RenewAire introduces four models in the V-Series line of ventilation fans for small commercial exhaust applications. The fans are designed to move air with low power consumption and sound levels. Features include a tightly sealed backdraft damper to minimize air leakage and a heat sink motor mount for cooler operation.

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#### [Programmable Heat Pump Thermostat From SUPCO/CTC](#)

ALLENWOOD, N.J.—CTC, a division of SUPCO, announces the 43168 digital, programmable multistage heat pump thermostat. It features a filter monitor and a refresh programmable fan function that enables the user to circulate air during system off times.

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### [Subscription Management](#)

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