



Mississippi Valley Chapter Newsletter

January 2012

<http://www.mississippivalleyashrae.org>

Monthly Newsletter



Important Dates

- **January 19, 2012**
ASHRAE Standard 100
- **February 16, 2012**
Economics of
Engineering Firms and
Mechanical Contractors
- **March 15, 2012**
Mechanical Design For
Rigging and Installation
- **April 19, 2012**
Variable Refrigerant
Flow Technology
- **May 17, 2012**
DOAS Systems
- **June 1, 2012**
Golf Outing

“ASHRAE Standard 100 – Energy Efficiency in Existing Building”

Dustan MaCauley, PE, Manager of Mechanical Division at TAI

Today in the United States, buildings account for over 70% of electricity consumption and nearly 40% of Greenhouse Gas Emissions (GHG). Energy conservation and management in existing buildings represents our greatest opportunity for energy savings. Energy-saving practices for operation, maintenance, and monitoring are essential for achieving sustainability in existing buildings; increasing the energy efficiency of existing buildings can have 4 times the environmental impact as the installation of renewable energy.

To assist building owners and operators to address energy efficiency and conservation, ASHRAE is in the process of revising Standard 100, Energy Efficiency of Existing Buildings. This presentation will provide an overview of the revision of ANSI/ASHRAE/IESNA Standard 100 Energy Efficiency in Existing Buildings. The revised standard is performance based with target Energy Use Intensities (EUI) for many commercial and residential buildings. An alternative path is given for buildings for which there is no target. This presentation will cover the compliance path and outline for the standard.

January 19, 2012 Program

Location:	Steeplegate Inn 100 W 76th Street Davenport, IA 52806
Program:	ASHRAE Standard 100 – Energy Efficiency in Existing Building
Agenda:	4:30-5:30 Program at SteepleGate 5:30-5:45 Meeting at SteepleGate 5:45-6:45 Dinner at SteepleGate
Menu:	Beef Stroganoff Key West Vegetable Mixed Greens Salad

Dunstan Macauley, P.E. has 15 years of experience in the HVAC industry where his background includes the evaluation, design, and specification of mechanical systems for educational, commercial, and institutional facilities. Mr. Macauley is currently the Manager of Mechanical Division at TAI, where he is responsible for project design and project management.

Mr. Macauley has a Bachelor of Science degree in Mechanical Engineering from the University of Maryland and is a registered professional engineer. Mr. Macauley is certified as a High-Performance Building Design Professional and is also a LEED Accredited Professional. He is a member of ASHRAE where he serves on several standing and technical committees. Mr. Macauley is currently the President of the National Capital Chapter.



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Please check the website for full speaker bio and additional information on the remaining meeting topics as the Programs Schedule has been completed.

Winter conference is in Chicago this year, Jan 21 – 25. The AHR Expo will be Jan 23-25. Please see the Society website for additional information. www.ashrae.org/chicago

We have an open BOG position, Secretary. Please contact any BOG Meetings for details. Looking for Leadership for 2012 and beyond!

ASHRAE News



Winter Conference: The Winter Conference offers attendees the opportunity to discuss and examine the latest topics in the building industry, as well as participate in technical tours, attend ASHRAE Learning Institute (ALI) courses, earn professional credits, and obtain ASHRAE certifications. The 2012 Winter Conference will be held Jan. 21-25 at the Palmer House Hilton, Chicago. AHR Expo, held in conjunction with the Winter Conference, will be held Jan. 23-25. The Expo will be held at the McCormick Place.

[Read more](#)

O&M Mini-Conference to be Featured at Winter Conference

A "mini-conference" focusing on operations and maintenance (O&M) is being offered as part of the 2012 ASHRAE Winter Conference, Jan. 21 – 25 in Chicago. The mini-conference takes place Jan. 22 – 23. The mini-conference kicks off with a debate on building operations and several sessions addressing current practices and tools. Around 10 sessions will comprise the mini-conference.

[Read more](#)

Technology Awards Recognize Best in Building Design

Designers of systems for a university building, a cancer center, an ice rink and other commercial buildings have been recognized by ASHRAE for incorporating elements of innovative building design. The ASHRAE Technology Awards recognize outstanding achievements by members who have successfully applied innovative building design. Their designs incorporate ASHRAE standards for effective energy management and indoor air quality.

[Read more](#)

Energy Modeling Conference to Present Case Studies

ASHRAE's *Energy Modeling Conference—Tools for Designing High Performance Buildings*, is scheduled for Oct. 1–3, 2012 in Atlanta. The conference will provide guidance for building design professionals about what does and does not work when using modeling tools to design and analyze building systems. ASHRAE seeks presentations on case studies and actual projects. Presentation applications are due Feb. 15, 2012.

[Read more](#)

CLIMA 2013 to Cover 'Smart and Healthy Buildings'

Plans are progressing for ASHRAE participation in the 11th REHVA World Congress CLIMA 2013. Cosponsored by ASHRAE and organized by REHVA, the European Federation of HVAC societies, CLIMA will be held June 16–19, 2013, at the Prague Congress Centre in the Czech Republic. The theme of the Congress is "Energy-Efficient, Smart and Healthy Buildings." ASHRAE members are eligible for the discounted REHVA member registration fee.

[Read more](#)

Associate Society Alliance Celebrates 50th Anniversary

In 2012, the ASHRAE Associate Society Alliance, the name of ASHRAE's formal relationship with HVAC&R Societies in other countries, will celebrate 50 years of continuous activity. Formed in 1962, the member societies were known as Affiliates of ASHRAE, with five societies joining during the first year. The ASHRAE Board of Directors initiated the program of international outreach "to broaden ASHRAE's scope of activities in the free world and thereby make possible a more effective and fruitful exchange of knowledge and ideas among engineers engaged in the arts and sciences of refrigerating, heating and air conditioning." There are now 53 ASHRAE Associate Societies worldwide.

[Read more](#)

Industry News

Demand for Energy to Rise 30% by 2040, Tempered by Efficiency Gains

IRVING, Texas—Worldwide demand for energy will increase 30% over the next 30 years, as prosperity expands across the world and the population grows to nearly 9 billion people, according to Exxon Mobil Corp. In its *The Outlook for Energy: A View to 2040* report, the energy company says that China, India, Africa and other emerging economies will lead the growth, while demand in the United States and other fully developed economies will remain relatively constant. Energy demand will shift toward less-carbon-intensive energy sources such as natural gas, and renewable energy sources will increase to account for 15% of world energy supply. The report adds that projected increase in demand would be four times higher without projected gains in efficiency.

[Read more](#)

Federal Move to More Efficient Light Bulbs Delayed

WASHINGTON—The U.S. Congress has pushed back the start date for the phase-out of incandescent light bulbs. Instead of Jan. 1, 2012, the phase-out date for the incandescent 100 W light bulb was pushed back to October by a provision in a bill to extend funding for the federal government for the fiscal year ending Sept. 30, 2012. The light bulb rules, originally enacted in 2007, require that bulbs use at least 25% less energy. The measure does not ban incandescent bulbs, but favors more efficient lighting. Opponents of the efficiency measure argued that Americans should be free to purchase any light bulb they want.

[Read more](#)

Intel Tells Data Centers That 100 Degrees Isn't Too Hot

SANTA CLARA, Calif.—Most data centers are cooled to 64°F to 69°F (18°C to 21°C). However, Intel, the world's largest computer chip company, is advising its data center customers to raise the temperature to lower energy use and costs. By using new software and hardware to get a more detailed picture of what's hot and what's not, data centers can spread work around to different computers to keep them cool, said an Intel marketing manager. That approach, along with a range of other technologies offered by Intel, could let technicians eventually increase data center temperatures to higher than 100°F (38°C). Data center cooling costs \$26 billion a year. The facilities use 1.5% of the power used worldwide, an amount that could double by 2014, says Intel.

[Read more](#)

Check-out the Updated Chapter Website at: www.mississippivalleyashrae.org

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<i>Vice President:</i>	<i>Cris Washburn</i>
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