



Sustainable Solutions Post



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Hazardous Materials Conference Highlights KPPC

KPPC engineers have extensive experience in pollution prevention, energy efficiency and environmental sustainability, and regularly conduct training sessions and workshops to share their knowledge and expertise with peer organizations and industrial representatives. On July 27, KPPC Executive Director Cam Metcalf gave the keynote presentation during the 25th Annual NAHMMA Conference in St. Petersburg, Florida. Metcalf discussed KPPC's experiences and outlined the 7-step process and tools the Center uses to engage industry teams in reducing wastes, energy and water usage and improve resource management headed toward sustainability. He also led a session the following day focusing on the Center's pollution prevention services and outlining the opportunities available for and barriers faced by P2 programs. More than 200 hazardous waste professionals from across the country attended the conference.

Founded in 1993, the [North American Hazardous Materials Management Association](#) (NAHMMA) is an established group of hazardous materials management professionals. NAHMMA's purpose is to advance education, foster communication, encourage policy development, recognize exemplary programs and provide professional development opportunities. The association has over 400 members and nine regional chapters, and conducts specialized training for hazardous materials managers and technicians.



Free Software Enhances Detection of Hazardous Contaminants in Drinking Water Systems

Scientists from the U.S. Environmental Protection Agency (EPA) and the U.S. Department of Energy (DOE) have collaborated in developing innovative water quality software that enhances a water system's ability to detect when there has been intentional or unintentional contamination. The [Canary software](#) can help detect a wide variety of chemical and biological contaminants, including pesticides, metals and pathogens.

Drinking water utilities use the software in conjunction with a network of water quality sensors to rapidly detect contamination and to more accurately assess when and how they need to respond. The software helps to distinguish between natural variation in water quality measurements and hazardous contamination, and sends an alarm to indicate when water utilities should take steps to

investigate and respond to potential contamination.

The Greater Cincinnati Water Works is the first utility to pilot the software and has been using Canary to assist in detecting and managing contamination incidents since 2007. The software is currently being evaluated in four other U.S. cities -- New York, Los Angeles, Philadelphia and San Francisco -- and in Singapore.

EPA and DOE received a 2010 "R&D 100 Award" from *R&D Magazine* for developing Canary. The R&D 100 awards recognize the top high-technology products of the year. As a free software tool, Canary is available worldwide to drinking water utilities striving to provide safe water to their customers. The software has been accessed by more than 600 users in 15 countries.

Green Tip

Tools to Evaluate Cool Roof Technologies

Cool roofs use lighter-colored roofing surfaces or special coatings to reflect more of the sun's heat, helping improve building efficiency by reducing cooling costs and offsetting carbon emissions. Several tools are available to help consumers and professionals choose appropriate cool roofing materials and estimate their benefits.



- The U.S. DOE Building Technologies Program released its [Guidelines for Selecting Cool Roofs](#) in July 2010.
- U.S. DOE's [Building Energy Software Tools Directory](#) provides information on 389 building software tools for evaluating energy efficiency, renewable energy and sustainability in buildings.
- The [U.S. DOE Cool Roof Calculator](#) estimates the cooling energy savings and heating energy penalties attained by installing a cool roof.
- A list of [ENERGY STAR® approved cool roofing products](#) is available online.
- The [Cool Roof Rating Council](#) maintains a Products Directory that lists over 1000 materials.

Mark your Calendar for these Upcoming Conferences and Events

Free ENERGY STAR® Webinars—August-September

Visit the [ENERGY STAR® Training Center](#) for more information and to register for any of these sessions. (All webinars are Eastern Time.)

- Generating a Federal High Performance Sustainable Buildings Checklist in ENERGY STAR® Portfolio



- Manager — August 24, 2:00 - 3:00 p.m.
- ENERGY STAR® and Green Building Rating Systems — August 25, 2:00 - 3:30 p.m.
- K-12 Benchmarking 101 — August 31, 2:00 - 3:00 p.m.
- Financing Energy Efficient Upgrades with ENERGY STAR® — September 1, 2:00 - 3:15 p.m.
- Computer Power Management with ENERGY STAR® — September 21, 1:00 - 2:00 p.m.
- Benchmarking in Portfolio Manager for Large Portfolios — September 22, 2:00 - 3:00 p.m.
- Benchmarking Water/Wastewater Plants in Portfolio Manager — September 23, 2:00 - 3:15 p.m.
- K-12 Benchmarking 101 Webinar — September 29, 2:00 - 3:00 p.m.

Economic Development through BioEnergy—Symposium Series—August-October

Regional entrepreneurs, local leadership, service providers and vendors allied with the biomass and biofuels business community should not miss this chance to learn about Kentucky's BioEnergy potential and resources available to them. This Symposium Series is designed to help grow this expanding industry while looking at energy cost-saving opportunities for Kentucky businesses and homeowners.

The agenda includes presentations on: Gov. Beshear's Executive Task Force on Biomass and Biofuels Development; the impact of federal mandates on Kentucky's biomass potential; the integration of energy and agriculture; the Cabinet for Economic Development's business development programs; the Kentucky Science & Technology Corp.'s New Energy Ventures funding program; the U.S. Department of Agriculture's Rural Development funding opportunities; and KPPC's commercial and industrial energy efficiency programs.

The Kentucky Department for Energy Development and Independence is working with local sponsors to host these symposiums. The first session was held in Morehead on August 12. The remaining sessions are scheduled as follows:

- September 8 - Bowling Green
- September 22 - Springfield
- September 23 - Prestonsburg
- October 13 - Maysville
- October 19 - Henderson
- October 27 - Corbin



Please contact [Kristina Anderson](#) with the Department for Energy Development and Independence for more information.

Recycle Glass Week—September 12-18

The Glass Packaging Institute's (GPI) [Recycle Glass Week](#) is an awareness event aimed to educate consumers about the environmental benefits of glass bottle recycling and encourage participation in recycling glass to help save energy, reduce greenhouse gas emissions and facilitate the



industry's nationwide goal of using 50 percent recycled content in the manufacture of new glass bottles and jars by the end of 2013.

During GPI's second-annual Recycle Glass Week, GPI member companies and recyclers will hold nationwide glass container recycling awareness activities and events, provide consumers with information and hold their own recycling events.

The Glass Packaging Institute is the trade association representing the North American glass container industry.

P2 Week—September 20-26

Sponsored by the National Pollution Prevention Roundtable, P2 Week is held the third week of September each year. It is an opportunity for individuals, businesses, and government to emphasize and highlight their pollution prevention and sustainability activities and achievements, expand current pollution prevention efforts and commit to new actions.



In addition to promoting pollution prevention with their own facilities during P2 Week this year, KPPC encourages Kentucky businesses and industries to join State or Federal programs that can extend the reach of their activities. [ENERGY STAR®](#) partners can access resources and leverage the ENERGY STAR® name. [KY EXCEL](#) is a voluntary environmental leadership program administered by the Division of Compliance Assistance. U.S. EPA's [WasteWise](#) program helps its partners meet goals to reduce and recycle municipal solid waste and selected industrial wastes.

Motor Systems Management Workshop—September 28, 8:00 a.m. - 4:30 p.m. ET—Louisville

This 1-day workshop will help facility personnel—maintenance staff, plant managers and plant engineers—gain an understanding of electric motor systems management and develop skills to help them manage motor systems for reduced energy cost and increased reliability. The session will cover technical and policy/procedure topics related to management of motor systems. This includes evaluation and selection of the optimum motor for each application; motor tracking inventory and maintenance actions; and development/use of guidelines or specifications for motor repair and rewind. Electric power system and management of power transmission and driven loads are also covered in relation to motor operation and use.

This session also identifies resources, such as organizations, standards, guidebooks and technical assistance providers, that can help plant personnel establish and manage industrial motor systems. In addition, the workshop provides an overview of U.S. DOE's MotorMaster+ (MM+) software and a demonstration of the tool's basic functions and applications.

Presented as part of KPPC's Environmental Sustainability training series, this workshop is offered in conjunction with the U.S. DOE's [Industrial Technologies Program](#).

Save the Date! Registration information will be available soon on the KPPC website.

Funded by the American Recovery and Reinvestment Act through the combined efforts of the following organizations: Kentucky Department for Energy Development and Independence, the U.S. Department of

Energy and KPPC.

Sustainable Energy Training Series 2010—September-October—Frankfort

Appalachia - Science in the Public Interest and the Kentucky Solar Partnership present the 2010 [Sustainable Energy Training Series](#), offering workshops on topics related to solar energy and residential energy conservation. The workshops are oriented toward professionals seeking to expand their knowledge and the scope of services they offer, as well as others interested in learning more about these important fields.

The upcoming workshops will be held in Frankfort:

- Introduction to Solar Water Heating, September 14–15
- Advanced Solar Water Heating, September 16–17
- Introduction to Solar Photovoltaics, October 26–27
- Solar Site Assessments & PV System Design, October 28
- Solar PV & the National Electric Code, October 29

KPPC is Kentucky's primary resource to help businesses, industries and other organizations develop environmentally sustainable, cost-saving solutions for improved efficiency. Based at the University of Louisville J.B. Speed School of Engineering, KPPC provides technical information and assistance that is free, confidential and non-regulatory.



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