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There's Still Time to Register for KREC's September Quarterly Meeting

There's still time to register to attend KREC's next quarterly meeting on September 30 from 1:00 to 3:00 p.m. in Frankfort. The meeting will feature speakers from the Kentucky Department for Energy Development and Independence and the Governor's Office of Agricultural Policy who will provide the latest information about biomass development, the 25x'25 National Summit, a Renewable Energy Portfolio Standard for Kentucky and economic development through bioenergy.

In addition to featured speakers, recent KREC activities will be covered as well as announcements of upcoming events. KREC's Competitive Grants researchers will present updates and progress on their projects and answer questions about their research. [Register](#) today to attend the KREC quarterly meeting at the Frankfort Convention Center.

New Wind Energy in Schools Webinar Series in October

As a follow-up to KREC's successful wind webinar last July, a free *Wind Energy in Schools Webinar Series* will be presented by KPPC through KEEPS – Kentucky Energy Efficiency Program for Schools and KREC – Kentucky Renewable Energy Consortium and co-sponsored by Kentucky NEED – National Energy Education Development Project and DEDI – Kentucky Department for Energy Development and Independence.



- Webinar 1 **Wind Energy Curriculum in Schools** - Wednesday, October 6, 1:00 to 2:00 p.m. ET
- Webinar 2 **Wind Turbine Projects in Schools** - Thursday, October 14, 1:00 to 2:00 p.m. ET

Webinar 1 – Wind Energy Curriculum in Schools will focus on the benefits and processes of developing K-12 curriculum to explore climate studies and the potential for wind energy development in Kentucky school districts. Educators can learn about resources available from the Kentucky Mesonet project and how to develop lesson plans that can include elements of meteorology, math, physics and geography. Students from all levels

of the educational system can participate in research of Kentucky weather and climate and gain knowledge of how wind power can be used as a source of renewable energy.

Webinar 2 – Wind Turbine Projects in Schools will focus on the practical issues involved in installing and operating a wind energy system in K-12 schools. Educators, energy managers and school administrators will learn about permits, local codes, proper site evaluation, safety, costs and coordinating with local utility companies when considering a wind turbine system.

These webinars are FREE and open to the public. Please [register](#) in advance to attend one or both.

KREC at ECU's BioEnergy Field Day



On September 9 KREC participated with a booth display at the 2010 Regional BioEnergy Field Day held at Eastern Kentucky University's Meadowbrook Farm in Richmond, Kentucky. The event was held to showcase recent activities of state agencies and organizations and to increase the awareness of on-farm renewable energy production and energy efficiency opportunities. The Field Day was attended by an estimated 200 people who visited display booths and learned about new advancements in the field of renewable energy, as well as the contributions of the agricultural community to those advancements.

Programs represented at the event included DEDI, GOAP, MACED, KY Forestry Services, Envirowatts, ECU's CRAFT center and others. KPPC staff discussed KREC's mission and initiatives with attendees and distributed materials and information about the Center's Environmental Sustainability program.

During the event, Sixth District Congressman Ben Chandler announced the award of a \$2.4 million federal grant from the Defense Logistics Agency (DLA) to Eastern Kentucky University's Center for Renewable and Alternative Fuel Technologies (CRAFT). View a press release and video of the announcement at [EKU's website](#).

KPPC Wins NPPR Award for KREC Publication

KPPC was honored by the [National Pollution Prevention Roundtable](#) (NPPR) at an annual ceremony in Washington, D.C. on September 21, where it received a 2010 Most Valuable Pollution Prevention (MVP2) Award for its KREC publication, *Kentucky Forum: Carbon Sequestration through Agriculture and Forestry Management*.



The report summarizes the issues covered at the forum, which was held by KREC in Louisville September 10, 2009, and attracted 108 attendees from six states to share

information and offer expertise on agriculture, forestry, research, government, business and environmental topics. The report details some of the most important issues covered at the forum, including carbon policy, biofuels and potential energy crops for Kentucky. You can [view a pdf](#) of the winning publication on KREC's website.

NPPR has sponsored the MVP2 Awards program since 1999 to recognize outstanding and innovative projects and programs. The 2010 MVP2 Awards were presented during P2 Week (September 20 - 26), a national pollution prevention awareness campaign. Award recipients represent a broad range of backgrounds, including federal government agencies, academia, industries, non-profits and individuals that have demonstrated significant accomplishments in pollution prevention.



Following the MVP2 Award ceremony, Cam Metcalf, Executive Director of KPPC, met with Kentucky Senator Mitch McConnell to discuss the award and to update the Senator on recent KREC activities.

The Value of Teaching Sustainable Energy

Article submitted by Dr. Chris Foreman, University of Louisville

Sustainable energy is emerging as an industry in its own right – one that will provide a wide variety of job opportunities as the industry grows. Recognizing the need for trained professionals in this rapidly expanding field, the Department of Electrical and Computer Engineering at the J.B. Speed School of Engineering, University of Louisville, is offering a course in renewable energy for the second time this Fall. The 500-level course is open to senior and graduate students in all engineering disciplines and will explore renewable energy systems such as biomass, solar, wind and hydro technologies primarily for electrical power generation along with environmental and economic impacts.

Topics covered include:

- World power landscape (sources, reserves, economics, other statistics)
- Principles of legacy power production using coal and nuclear processes
- Biomass power
- Solar photovoltaic and thermal power
- Wind power
- Hydro power
- Power storage
- Intelligent power grid technologies, i.e. smart grid

Students will develop and orally present a team-based renewable power generation project, including power grid integration and local power storage. The course is created and taught by Dr. Chris Foreman, Founding Chair of the Louisville Kentucky chapter of the IEEE Power and Energy Society, and member of KREC.

Upcoming Renewable Energy Events

Louisville Solar Week

Over the last several years, the [Louisville Solar Tour](#) has given the local community an opportunity to visit homes and buildings that use solar energy in a variety of ways. The 2010 program has expanded to a week-long event that began Saturday, September 25, at DuPont Manual High School and will culminate with this year's Louisville Solar Tour on Saturday, October 2.

Anyone interested in solar energy can attend enlightening presentations, speak with knowledgeable industry professionals, and see up-close how Louisville area homes and businesses are using solar power to reduce their utility costs.

The event will feature exhibits, activities and contests for kids and adults, and will host a debate for the Louisville Mayoral candidates. Louisville Solar Week and the 2010 Louisville Solar Tour are part of the American Solar Energy Society (ASES) National Solar Tour, which is the world's largest grassroots solar event.

Economic Development through BioEnergy Symposium Series

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 Kentucky Department for Energy Development and Independence is working with local sponsors to host these symposiums. Three sessions were held in August and September and the remaining sessions are scheduled as follows:

- October 13 - Maysville
- October 19 - Henderson
- October 27 - Corbin

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

Sustainable Energy Training Series 2010

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 Photovoltaics, October 26–27
- Solar Site Assessments & PV System Design, October 28
- Solar PV & the National Electric Code, October 29

2010 Governor's Conference on the Environment to be held in Louisville—October 20-21

In today's world, energy, the environment and the economy are tightly interwoven in ways we haven't previously experienced. This year's conference focuses on the interconnection among the three and the opportunities and challenges facing the Commonwealth. Speakers include Vic Staffieri, chief executive officer and president of E.ON US; Steve Brown of the Environmental Council on the States; and Theresa Pugh of the

American Public Power Association.

Workshop topics include air quality regulations, coal mining and water quality issues, land preservation and conservation, renewable energy, and BioEnergy, just to name a few. [Register](#) and learn more about the conference at the Kentucky Energy and Environment Cabinet's website.



KREC Needs Only 7 More Friends!

KREC needs just a few more friends (we have 93; we need 100) to have its own Facebook web address, so please visit and give us a "like" for the page. You can join KREC members and friends of renewable energy on KREC's Facebook page. The page offers visitors the opportunity to share information, discuss ideas, ask questions or post items of interest to the renewable energy community. To view the page, log onto your Facebook account (required) and type "KREC Kentucky" in the search field. Facebook, in conjunction with the KREC website, will help get the word out about what's happening in renewable energy and energy efficiency in Kentucky. KREC and KEEPS - Kentucky Energy Efficiency Program for Schools - are KPPC's new members of the Facebook community.

Contribute an Article to REnews!

KREC would like to publish your thoughts on renewable energy and energy efficiency in Kentucky in the "Members' Forum". Please send your opinions, articles or news about RE happenings in the Commonwealth to KREC@kppc.org. A short piece is preferable (300 or fewer words work best).

Make your voice heard – we want to give KREC members a forum to spread the word about renewable energy efforts and issues.



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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