

**Bioenergy, Sustainability, and Land-Use Change Report  
Oak Ridge National Laboratory (ORNL) December 2011**

**ORNL Presentations:**

December 1- Keith Kline gave a talk on “Bioenergy and issues of sustainability” to the Environmental Protection Office (EPO) at ORNL.

December 5-9 – Virginia Dale gave a presentation on the “Land use, energy and climate change nexus” at the American Geophysical Union (AGU) Fall meeting in San Francisco, CA.

**ORNL CBES Forum:**

December 15 – “Southeastern Partnership for Integrated Biomass Supply Systems” presented by Tim Rials, Director of the Center for Renewable Carbon, University of Tennessee. This presentation can be accessed at the CBES website under forums:

<http://www.ornl.gov/sci/ees/cbes/forums.shtml>

**Other ORNL Activities:**

November 29-December 1 – Rebecca Efroymsen, Yetta Jager and Virginia Dale participated in a workshop on EPA's conceptual models, which diagram activities and potential impacts of biofuel feedstock production. These conceptual models were first developed for EPA's Biofuels and the Environment: First Triennial Report to Congress. In addition to providing written reviews of the conceptual models, Virginia gave a brief presentation and chaired a panel discussion. Yetta presented her review of conceptual model pathways as they influence water as an endpoint.

December 15 – Keith Kline, Mark Downing, Yetta Jager, Tim Theiss and Virginia Dale participated in a DOE Biomass Program roundtable discussion on sustainability.

December 20 - The final report was distributed for “The Billion Ton Study: What can be Learned about Bioenergy Sustainability?” workshop which was held September 28-30. Full report can be found at <http://www.ornl.gov/sci/ees/cbes/workshop.shtml>.

**Upcoming ORNL Visits/Events:**

January 30 – Virginia Dale has been invited to present at the American Chemical Society (ACS) Science and the Congress briefing on Cellulosic biofuels on Capitol Hill.

February 5-8 – Virginia Dale and Keith Kline will give presentations at the 2012 National Biodiesel Conference & Expo in Orlando, FL.

February 22-24, 2012 – Virginia Dale will speak on “Environmental and socioeconomic indicators for bioenergy sustainability as applied to Eucalyptus” at symposium on “Assessment and Management of Environmental Issues Related to Eucalyptus Culture in the Southern United States”. The symposium is being organized by the USDA Forest Service and the National Council for Air and Stream Improvement, Inc. (NCASI) in Charleston, SC. Matt Langholtz is assisting in the preparation of this paper.

March 28—Esther Parish will present her research on “Estimating future global per capita water availability based on changes in climate and population” at the American Water Resources Association (AWRA) 2012 Spring Specialty Conference on GIS and Water Resources VII,

"Managing Climate Change Impacts on Water Resources: Adaptation Issues, Options and Strategies" in New Orleans, LA. April 16-20, 2012 - Keith Kline and Maggie Davis will participate in the second plenary meeting of the ISO Project Committee (PC248) developing a standard on "Sustainability Criteria for Bioenergy" hosted by the U.S. Technical Advisory Group at Argonne National Lab.

April 10 – Matt Langholtz has been invited to speak at the 2012 Oklahoma Experimental Program to Stimulate Competitive Research (EPSCoR) Annual State Conference on Bioenergy in Stillwater, Oklahoma. <http://www.okepscor.org/public-outreach/news/save-date-2012-oklahoma-epscor-annual-state-conference>

April 16-20, 2012 - Keith Kline and Maggie Davis will participate in the second plenary meeting of the ISO Project Committee (PC248) developing a standard on "Sustainability Criteria for Bioenergy" hosted by the U.S. Technical Advisory Group at Argonne National Lab.

October 2012 - Virginia Dale will serve as a member of the Conference Programming Committee for the "Science for Biomass Feedstock Production and Utilization National Conference" to be held in October 2012 in New Orleans and sponsored by the Sun Grant Initiative. <http://www.sungrant.org/News+and+Events/2012+National+Conference.htm>