

Bioenergy, Sustainability, and Land-Use Change Report Oak Ridge National Laboratory (ORNL) February 2015

Publications

Dale VH, KL Kline, MA Buford, TA Volk, CT Smith, I Stupak (Submitted) Incorporating bioenergy into sustainable landscape designs. *Renewable & Sustainable Energy Review*.

ORNL Presentations:



Auburn War Eagle
Part of the Raptor Center's program at the SunGrant Initiative Regional Conf.

February 2-4 – Esther Parish participated in the SunGrant Initiative Regional conference at Auburn AL, entitled *Southern Crossroads: Progress in Biomass Production, Processing and Use*. She gave three presentations covering the work on sustainability of switchgrass production in East Tennessee, pellet production in the southeast (for Virginia Dale), and the Billion Ton Update planned for 2016 (for Laurence Eaton).

February 9 - Jenny Sabin visited ORNL on February 9th, hosted by Virginia Dale. Jenny Sabin is the Principal of Jenny Sabin Studio; the University in the area of Design and Emerging Technologies Director of Sabin Design Lab and an Assistant Professor at Cornell in the Department of Architecture. She is currently involved in work that bridges between architecture and science. The title of her lecture was: *Between Architecture & Science: Elasticity and Networks*.



CBES FORUM



Jim Parks of the National Transportation Research Center spoke at the CBES Forum on February 25th. This talk was titled "The Triple-Dare Challenge Facing the Automotive Industry: Fuel Economy Standards, Emissions Regulations, and Renewable Fuel Use" and can be accessed at the CBES website at <http://web.ornl.gov/sci/ees/cbes/>.

Other ORNL Activities:

February 11 – Virginia Dale and Esther Parish met with a group from North Carolina State University (NCSU), Steven Kelley and Carter Reeb to discuss Multi-Attribute Decision Support Systems (MADSS) tools and their possible use with projects currently being worked at NCSU and Carter Reeb's work on trade-offs and normalization.

February 12 - Keith Kline, Esther Parish and Virginia Dale joined the monthly call of the Southern Bioenergy Working Group Partners representing agriculture, forestry, government, industry, academia, and NGOs that highlights and discusses issues and advancements in bioenergy policy, technology, and commercialization.

February 20 – Kline and Davis participated in team meeting and conference calls for NSF PIRE “Sustainability, Ecosystem Services, and Bioenergy Development across the Americas” Project.



February 27 – Update Report #13 was submitted to DOE by Kline and Davis, describing work by ORNL and the US Technical Advisory Group to the International Organization for Standardization (ISO) to resolve comments, contribute to February work group activities and plans for editing and completing the Draft International Standard 13065 “Sustainability Criteria for Bioenergy.”

Upcoming ORNL Visits/Events:

March 2-5 - Natalie Griffiths will give an overview talk on the short-rotation woody biomass sustainability project at the Interagency Conference for Research in the Watersheds meeting in Charleston, SC.



2-year old loblolly pine trees growing at the Savannah River Site for the short-rotation woody biomass sustainability project.

March 30 –April 17 – Anna Duden will be visiting ORNL from Utrecht University to work on woody biomass from the southeastern US for pellet production.

June 15-17 - Virginia Dale will give a talk on “Approach for sustainability assessment of southeast pellet production” at the Forestry Technical Session at the 2015 Southern Regional Meeting of the National Council for Air and Stream Improvement (NCASI) in Greenville, SC

July 5-11 – Virginia Dale plans to attend the 9th International Association of Landscape Ecology (IALE) World Congress in Portland, Oregon, and will present an invited talk on “Ecological implications of energy use: a focus on scale” in the John A. Wiens Symposium on Spatial Scaling in Ecology.

August 8-14 – Virginia Dale plans to attend the 2015 Ecological Society of America (ESA) Annual Meeting and give an invited talk. Keith Kline will also present on a landscape design approach for assessing trade-offs and sustainability of woody biomass production from forests in the Southeastern United States. This meeting is taking place in Baltimore, Maryland.