

MANAGED BY UT-BATTELLE FOR THE US DEPARTMENT OF ENERGY

- [Forest condition, history, and trends in the Southeastern United States \(SE US\): Dave Wear](#) (US Department of Agriculture Forest Service)
- [The wood based pellet industry in the SE US: Seth Ginther](#) (US Industrial Pellet Association)
- Perspectives on the pellet industry in the SE US:
 - [Economic perspective - Karen Abt](#) (US Department of Agriculture Forest Service)
 - [Environmental concerns - Brian A. Kittler](#) (Pinchot Institute for Conservation)
 - [Wetland issues – Bob Emory](#) (Weyerhaeuser Company)
 - [Carbon issues - Bob Malmshemer](#) (State University of New York)
 - [Noncorporate land owner perspective - Scott Jones](#) (Forest Landowners Association)
 - [Certification programs supporting the pellet industry in the SE US – Paul Trianosky](#) (Sustainable Forestry Initiative)
 - European perspective
 - [Kristine Van het Erve Grunnet](#) (Danish Energy Association, Demark)
 - [Richard Peberdy](#) (Drax Biomass International Inc., United Kingdom)
- [Summary of key opportunities and concerns - Tat Smith](#) (University of Toronto, Canada)
- VIEW posters submitted:
 - [Idaho National Lab by Shyam Nair](#)
 - [Oak Ridge National Laboratory by Virginia Dale and Tim Theiss](#)
 - [National Renewable Energy Laboratory by Danny Inman](#)
 - [Savannah River Site by Natalie Griffith](#)
 - [Weyerhaeuser Company by Jami Nettles](#)

• **Reception** •

DOE Innovations to Support a Sustainable Bioeconomy – Alison Goss-Eng (BETO)

Tuesday, April 12, 2016:

7:30 am – 8:30 am Travel to Vonore, TN - In Route Presentations:

- Overview of day – Virginia Dale (ORNL)
- [Surveying landowners regarding supporting the bioeconomy – Don Hodges \(University of Tennessee\)](#)

8:30 am – 9:25 am Genera Inc.

- [Overview of Genera](#) – Kelly Tiller (Genera Inc.)
- Participants divide into two groups, and round robin 20 minute tours begin
 - Energy Garden - Kelly Tiller and Mike Odom
 - Processing Facility - Clay Dye and Austin Beddingfield

9:25 am – 9:40 am Travel to switchgrass field

9:40 am – 10:00 am Switchgrass field

- Grower perspectives – Kelly Tiller and Mike Odom

10:00 am – 12:30 pm Travel to Hiawasee, Georgia - In route presentation:

- [Assessing multimetric aspects of sustainability: Application to a bioenergy crop production system in East Tennessee - Esther Parish \(ORNL\)](#)



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12:30 pm – 2:00 pm Lunch

- Discussion of non-corporate forest landowner concerns and opportunities – Frank Riley (land owner) and Scott Jones (Forest Landowners Association)

2:00 pm – 3:45 pm Travel to Liberty, South Carolina - In route presentation

- [Landscape design and stakeholder engagement in the Midwestern US – Cristina Negri \(ANL\)](#)

3:45 pm – 5:30 pm Non-corporate private forest operations

- Bioenergy supporter and rock star– Chuck Leavell <http://www.chuckleavell.com/blog2/>
- [Non-corporate forest land owner perspective- Tom O'Hanlan](#)
- Non-corporate forest operation and biodiversity issues – Derek Dougherty (Dougherty and Dougherty Forestry)
- [An experimental approach to assess the ecological sustainability of woody biomass harvests - Chris Moorman and Steve Grodsky \(NCSU\) and Ben Wigley \(NCASI\) \(presenter\)](#)

5:30 pm – 6:45 pm Travel to Greenwood, SC

6:45 pm – 8:00 pm Dinner: Discussion of (1) Planning for the triennium for IEA Bioenergy Tasks 38 and 43 and (2) Opportunities & constraints in resource management for all others

8:00 pm – 9:15 pm Travel from Greenwood, SC, to Aiken, SC

Wednesday, April 13, 2016:

7:30 am – 8:00 am Travel to Savannah River National Laboratory, register & badging

8:00 pm – 12:00 pm Savannah River Site:

- [Field studies of effects on water quality – Rhett Jackson \(University of Georgia\) & Natalie Griffiths \(ORNL\)](#)
- Drive to Cogen Plant / Snack
- [Cogen Plant - Nolan Graf and Barbara Ladd \(DOE\) and Clinton Sandmel and Ken Chacey -\(Ameresco\)](#)
 - Overview presentation
 - Tour - divided into two groups

12:00 am – 1:00 pm Lunch and presentations at meeting room at Cogen Plant

- [Sustainability-driven integrated landscape management through the application of LEAF in Iowa - Shyam Nair and Jason Hansen \(INL\)](#)
- [Integrated systems for the bioeconomy - Helena Chum \(NREL\)](#)

1:00 pm – 3:00 pm Travel to forest with drive by chipping mill – presentation on the bus

- [Sustainable bioenergy intercropping in pine plantations - results from research to operational-scale trials - Jami Nettles \(Weyerhaeuser Company\)](#)
- Chipping mill operations overview - David James (Drax Biomass)

3:00 pm -4:00 pm Forest near the Weyerhaeuser nursery and seed orchard (Chris Muckenfuss)



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- Forest sustainability from a large land owner perspective – Kyla Cheynet (Weyerhaeuser Company)
 - Master logging program -- Rob Hicks
 - [NCASI work on sustainable bioenergy - Ben Wigley \(NCASI\)](#)
- 4:00 pm - 5:00 pm** Travel to non-corporate private forest
- [ASTM standards for bioenergy sustainability – Keith Kline \(ORNL\)](#)
- 5:00 pm - 6:00 pm** Visit to non-corporate private forest
- Family forest landowner perspectives – Fred Warnell
- 6:00 pm – 7:00 pm** Travel to Comfort Inn, Savannah, GA 31408
- 7:30 pm – 9:30 pm** Dinner and discussion on “Innovations in bioenergy”

Thursday, April 14, 2016:

- 7:00 am – 8:30 am** Travel to pellet mill with drive by saw mill in route – presentations on bus
- [Success stories of US NE wood fuels for local heating markets - Charles Levesque \(Innovative Natural Resource Solutions, LLC\)](#)
 - Ensuring Sustainability at Enviva– Jen Jenkins and Allison Gratz (Enviva)
- 8:30 am to 10:30** Pellet mill operations
- Pellet mill operations – Danny Faircloth and Lige Moore (LJR mill owner and manager)
- 10:30 to noon** Travel to Savannah airport – presentations on bus
- Interfor-CNS Mill – Kevin Bowman
 - [Albedo effects of biomass production - Pierre Bernier](#) (Canadian Forest Service)
 - [Opportunities and costs of wood-based bioenergy in the SE US – Virginia Dale](#) (ORNL)
 - Wrap up & exit survey – Virginia Dale (ORNL)
- Noon** Study Tour adjourns

Acronyms and Twitter handles

- ANL – Argonne National Laboratory @argonne
- BETO – Bioenergy Technologies Office @BioenergyKDF
- CBES – Center for BioEnergy Sustainability @ORNLCBES
- INL – Idaho National Laboratory @INL
- NCASI – National Council for Air and Stream Improvement
- NCSU – North Carolina State University @NCState
- NREL – National Renewable Energy Laboratory @NREL
- ORNL – Oak Ridge National Laboratory @ORNL
- SRNL – Savannah River National Laboratory @SRSNews



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*The Study Tour was certified for Category 1-CF credit
with the Society of American Foresters*

