

## **Text Version for the Biomass 2011 Interactive Exhibit Overview Video**

*[The video shows various clips of Biomass Program Manager Paul Bryan touring the interactive exhibit display at Biomass 2011, and speaking with scientists from the DOE national labs and representatives from other participating organizations.]*

The Department of Energy's fourth annual conference—Biomass 2011—included a series of interactive exhibits designed to highlight the contributions of the DOE national labs along each step of the biomass-to-bioenergy supply chain.

In this video series, you will hear conversations with Biomass Program Manager Paul Bryan, as he tours the interactive exhibits and meets with scientists from the DOE national labs and representatives from other participating organizations.

In video clip 1, Paul tours the Feedstock Station and speaks with Mark Downing of Oak Ridge National Laboratory about the potential for purpose-grown woody and herbaceous energy crops and the use of residues from the existing wood and agricultural industry.

*[The video shows Paul Bryan speaking with Mark Downing at the Feedstocks station. The video also shows images of various biomass samples included in the display.]*

In video clip 2, Maynard Herron of AGCO, provides Paul with an overview of AGCO's large feedstock bailer, and discusses various approaches for collecting herbaceous biomass and agricultural residues.

*[The video shows Paul Bryan speaking with Maynard Herron in front of AGCO's large feedstock bailer. The video also shows Paul looking at large bails of biomass and picking up pieces of bailed corn stover.]*

In video clip 3, Paul speaks with Kevin Kenney, Richard Hess, and Chris Wright—all from Idaho National Laboratory. INL's scientists provide an overview of efforts to develop an integrated uniform format feedstock supply system and present samples of different types of biomass at various stages of densification and processing.

*[The video show Paul Bryan speaking with Kevin Kinney, Richard Hess, and Chris Wright at the feedstock logistics station. The video shows a model of the deployable PDU and shows Paul sifting through particles of biomass.]*

In video clip 4, Argonne National Laboratory's Seth Snyder discusses recent efforts to improve yields for biochemical conversion and presents a laboratory scale fermenter, samples of cellulosic ethanol, and various separations systems used in the pre-treatment and conversion process.

*[The video shows Paul Bryan speaking with Seth Snyder at the biochemical conversion station. Seth shows Paul a laboratory scale fermenter, samples of ethanol, and various separations systems.]*

In video clip 5, Jonathan Male, from the Pacific Northwest National Laboratory, demonstrates the principle behind fast pyrolysis conversion and shows Paul samples of pyrolysis oil at different stages of conversion and upgrading.

*[The video shows Paul Bryan speaking with Jonathan Male at the thermochemical conversion station and looking at samples of pyrolysis oil.]*

Bioenergy offers tremendous opportunities to reduce America's dependence on foreign oil, create jobs, reduce environmental impacts, and revitalize rural communities. But to be successful, America's scientists must continue to make technical innovations along each step of the bioenergy supply chain. We hope these clips will provide a window into that process and the exciting work already underway.

*[The video shows Paul Bryan holding up and examining a small sample of pyrolysis oil.]*

We look forward to seeing you at Biomass 2012!