

FAST PYROLYSIS

Demonstration Tours August 2009

Background:

Fast Pyrolysis is a thermal process that rapidly heats woody biomass to a controlled temperature (500 degrees C) and then quickly cools the volatile products to yield:

- bio-oil (~60%);
- bio-char (~20%); and
- syngas (~20%).

The syngas either is recycled into the combustion chamber to keep the process going or it can be collected. The bio-oil and bio-char are collected and trucked off site for later use.

The Umpqua National Forest and Douglas County are sponsoring the demonstration of a portable fast pyrolysis unit in southwest Oregon in August 2009. The unit, along with a Rotochopper, will be at Lemolo sand shed on Umpqua National Forest land processing mixed conifers on August 18 and 19, at Glide on private land processing cedar and oak on August 22, and at Merlin on Josephine County land processing madrone from state lands on August 26.



Partners:

- City of Grants Pass
- Douglas County
- Douglas Soil & Water Conservation District
- Natural Resource Conservation Service
- Oregon BEST
- Oregon Department of Forestry
- Oregon Forest Biomass Working Group
- Oregon Forest Resources Institute
- OSU Forestry Extension
- Renewable Oil International, LLC
- Rocky Mountain Research Station
- Rose Ranch Gibreath Family Trust
- Swanson Group
- Umpqua Basin Alternatives Coop
- Umpqua National Forest
- University of Idaho
- University of Montana

Upcoming tours:

Demonstration Site	Date	Starting Point
Lemolo Sand Shed	August 19, 2009	Douglas County Library, Roseburg
Glide	August 22, 2009	Douglas County Library, Roseburg
Merlin	August 26, 2009	National Guard Armory, Merlin

Registration

You must register online to attend these tours. To register, please visit the Oregon Forest Resources Institute's calendar of events at <http://www.oregonforests.org/ToursAndEvents/EventsCalendar.html>.

For more information, contact Mike Cloughesy at cloughesy@ofri.com or 971-673-2951.

Tentative agenda:

8:30 a.m.

Start at Douglas County Library in Roseburg for Aug. 19 and 22 and at the Armory in Merlin for August 26. Coffee and rolls available.

9:00 - 10:00 a.m.

Welcome and Background to Forest Biomass and Fast Pyrolysis – This indoor session will include the OFRI Speakers Bureau biomass presentation and a specific presentation on fast pyrolysis as a bio-energy technique. 45 minute + 15 minutes to load bus/break.

10:00 - 11:30 a.m.

Drive to site while tour guides on bus discuss forest types in area and need for fuels reduction.

11:30 a.m. - 2:00 p.m.

View Fast Pyrolysis Demonstration, eat lunch and continue viewing demonstration.

2:00 p.m. - 3:30 p.m.

Return to starting point with question and answer/ discussion session on the bus.

3:30 p.m.

Adjourn

