Biomass Field Day/Workshop

*Fueling the Future:*
*The Role and Use of Woody and Agriculture Biomass for Energy*

February 18, 2009 – Roosevelt, Minnesota from 8:30 a.m. – 4:30 p.m.
OR
March 19, 2009 – Morris, Minnesota from 8:30 a.m. – 4:00 p.m.

*About the Workshop/Field Day:*
Woody and agricultural biomass has been used for thousands of years for cooking, heating and has received considerable attention in the recent past as a “fuel of the future”. Our public forests and agricultural lands could provide a reliable supply of biomass for energy production while also maintaining ecological productivity. Development and commercialization of such biobased and bioenergy products provide new and expanded markets and help reduce our dependence on non-renewable sources. The expected increase of biomass energy, particularly from woody and agricultural biomass, could play a significant role in diversifying the forestry and agricultural sectors and revitalizing rural communities. At this workshop/field day, a wide spectrum of leading experts will describe the role and use of woody and agricultural biomass in fueling the future.

*Target Audience:*
- Woodland Landowners
- Agricultural Producers
- Natural Resource Professionals
- Energy Intensive Businesses
- The General Public
- Loggers

*This is a Woodland Advisor Program class that offers two elective credits. Continuing education credits will also be available for Certified Foresters and Forest Stewardship Plan Preparers. MLEP members will receive credit for attending.*

*Workshop Dates and Locations:*

**Roosevelt, MN: Wednesday, February 18, 2009**
8:30 a.m. – 4:30 p.m.
Nite Hawk Bar and Grill
9769 State Hwy 11 (Between Baudette and Warroad)
218-442-2470
Directions: [http://www.thenitezhawk.com/location.html](http://www.thenitezhawk.com/location.html)

**Morris, MN: Thursday, March 19, 2009**
8:30 a.m. – 4:00 p.m.
USDA-Agricultural Research Service conference room
803 Iowa Avenue
320-589-3411
Directions: [http://www.ars.usda.gov/PandP/docs.htm?docid=9158](http://www.ars.usda.gov/PandP/docs.htm?docid=9158)

There is going to be a bus tour to visit the University of Minnesota-Morris Gasification system for the Morris session, and a bus tour to visit the Gasification system of Northern Excellence Seed. Participants are advised to dress for the weather during the tour.

Questions about the workshop content contact: Diomy Zamora at 888-241-0720; Gary Wyatt at 888-241-3214, or Derek Crompton at 218-463-0291.

*Sponsored by the University of Minnesota Extension, Minnesota Department of Natural Resources, and the Minnesota Association of Resource Conservation and Development*
**Topics:**

**Trends in Energy Use: Renewable Energy Today and Tomorrow**
(Speaker: Dean Current, Program Director, UMN CINRAM – Roosevelt and Morris sessions)

**Alternative Energy Production Technologies**
(Speaker: Greg Cuomo, Associate Dean, UMN Extension – Roosevelt session only)

**Local Opportunities for Biomass Energy Production**
(Speaker: Mike Sparby, Director, Morris, AURI – Roosevelt and Morris sessions)

**Gasification: Process, Products, and Use**
(Speakers: Joel Tallaksen, Biomass Coordinator - UMN WROC – Roosevelt session; Josh Strege, Research Engineer, EERC – Morris session)

**Syngas to Anhydrous Ammonia: Haber-Bosch**
(Speakers: Mike Sparby/Randy Hillard, Project Development, Crookston, AURI – Roosevelt Session only)

**Farm-based Fuel from an Oil-Seed Crop**
(Speaker: Paul Aakre - Professor, UMN, Crookston – Roosevelt session only)

**Soil Impacts of Biomass Harvesting and the Minnesota Biomass Harvesting Guidelines**
(Speaker: Dick Rossman, Forester, MNDNR – Roosevelt session)

**Marketing and Sale of Woody Biomass**
(Speakers: Mimi Barzen, Forester, MNDNR – Roosevelt session; Mohammed Idrissu, RC&D Forester, MNDNR – Morris session)

**Financing Growth of the Cellulosic Biofuel Industry**
(Speaker: Cole Gustafson, Department of Agribusiness and Applied Economics, NDSU – Morris session only)

**Densification of Feedstocks: Pellets and Briquetting**
(Speaker: Al Doering, Co-product Development, AURI – Morris session only)

**Minnesota Agricultural Biomass Harvesting Guidelines**
(Speaker: Jane Johnson, Soil Scientist, USDA-ARS – Morris session only)

**Creating a Sustainable Biomass/Agricultural System**
(Speaker: Carmen Fernholz, Private Entrepreneur – Morris session only)

**Taking Advantage of the Current Opportunities: A panel discussion - Roosevelt session**
(Panellists: Steve Helmstetter, President Northern Excellence Seed Board of Directors; Joel Tallaksen, Biomass Coordinator - UMN WROC; Steve Arnesen, County Commissioner, Lake of the Woods County; Mike Polzin, Renewable Fuels Coordinator, Minnesota Power; Dan Hoskins, General Manager, North Star Electric Coop)

**Biomass Supply: A panel discussion – Morris session**
(Panellists: Joel Tallaksen, Biomass Coordinator - UMN WROC; Bill Lee, President, CVEC, Benson; Mike Sparby, AURI, Crookston; Mike Burns/Jeff Guillemette, Ever-Green Energy, LLC; Paul Kramer, Koda Power – Rahr Malting)

Registration fee includes lunch:

**For Roosevelt Session:** Before February 15, 2009: $20  After February, 15, 2009: $25

**For Morris Session:** Before March 15, 2009: $20  After March 15, 2009: $25

Please select your choice for a workshop session then register online using the URL provided:

[ ] Roosevelt, MN – February 18, 2009 (Wednesday)
Online registration: http://umnnext.cmiregistration.com/ProgramDetail.aspx/BiomassFieldDayRooseveltSession

[ ] Morris, MN – March 19, 2009 (Thursday)
Online registration: http://umnnext.cmiregistration.com/ProgramDetail.aspx/BiomassFieldDayMorrisSession

OR select your workshop choice and fill in the form below, and fax it using a secure connection to 612-625-6281, or mail it to:

**U of M Extension, Resource Development Unit**
Registration Coordinator
405 Coffey Hall/1420 Eckles Avenue
St. Paul, MN 55108

Payment options include credit card (Visa, MasterCard or Discover) or check. Payment must accompany registration form. If you have questions regarding registration, call the University of Minnesota Extension Store at 800-876-8636. If you have questions regarding content, please refer to the front page of this flyer for contact names and numbers.

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