

2011 Bioenergy Short Course Series

Penn State Biomass Energy Center

Success in the fast-developing field of bioenergy requires access to the latest technology and the best ideas. Rapid changes and breakthroughs in this field make it difficult to keep up, as well as to separate “the wheat from the chaff” in this age of information overload.

The 2011 Penn State Bioenergy Short Course Series consists of five events that focus on the advanced skills and science needed in today’s growing bioenergy economy. Engineers, chemists, managers and project developers will benefit from these intensive sessions that feature national experts in vital bioenergy subjects.



Winter Crops for Bioenergy

29 March, 2011
Centre County
Visitors' Center
State College, PA

Winter crops such as small grains and brassicas have considerable potential as resources for increasing yields and providing feedstock for bioenergy, feed, or other value added products. This short course will present recent developments in this underutilized opportunity area and examine scenarios for successful bioenergy production from winter crops.

Combustion Emissions and Health

09 June 2011
Penn Stater Hotel &
Conference Center,
State College, PA

Emissions and health impacts are a vital issue for the future of bioenergy in the nation. Controversy and confusion surrounding new regulations and proposed projects has made it difficult to see the opportunities and limitations of biomass energy relative to health and air quality. This short course will feature national experts discussing and clarifying this issue.

Life Cycle Analysis

26-28 July, 2011
Penn Stater Hotel &
Conference Center
State College, PA

Life Cycle Analysis and Techno Economic Analysis are some of the most valuable tools for assessing bioenergy projects. This multi-day short course will teach the principles of bioenergy life cycle analysis and provide hands-on opportunities to develop these skills.

Biofuels Catalysis

14-15 Sept, 2011
Philadelphia Naval
Yard
Philadelphia, PA

Catalysis processes continue to be one of the most effective means for transforming biomass into higher value fuels and products. This short course will bring together experts in the field to discuss latest developments, opportunities, and applications for catalysis in bioenergy projects.

Forest Bioenergy

8-9 Nov, 2011
Penn Stater Hotel &
Conference Center,
State College, PA

The United States is remarkably rich in forest resources – resources that can be enhanced by the growth of the bioenergy industry when projects are developed sustainably. This short course will focus on the latest developments in wood bioenergy, including short rotation crops and advanced biomass harvest systems.

WHO SHOULD ATTEND:

This series of technical short courses is designed for bioenergy professionals seeking critical information and networking opportunities. Engineers, project developers, facility managers, and policymakers are encouraged to register. Continuing Professional Development credit is available.

FOR MORE INFORMATION:

To register or learn more, visit the short courses web page:
<http://www.bioenergy.psu.edu/news/shortcourses.asp>
Alternately, Contact Sandy Maitland at 814-865-1507 or slm30@psu.edu.

