

Spring 2008 SEMINAR SERIES

F21C Bioprocessing & Biosensing Center

• DIVISION OF FOOD SYSTEMS & BIOENGINEERING •

PRESENTER: **Dr. William Jacoby**
Associate Professor, Biological Engineering
University of Missouri

TITLE: **Thermochemical Conversion of Biomass in Supercritical
Water**

ABSTRACT:

We are exploring the use of supercritical water as a reaction media for the gasification of biomass model compounds and biomass. The process has the potential to be very fast and to make a relatively high-value, producer gas. Results document the gasification of glucose in a continuous microreactor and the gasification of rice straw in a batch reactor. We examined the effect of variables including temperature, pressure, residence time and catalyst on gasification yield. Future directions in our research are also discussed.

BIOGRAPHY:

Dr. Jacoby received his BS in Chemical Engineering in 1984 from the University of Colorado-Boulder. He worked for six years in industry before returning for graduate study. He received his PhD in Chemical Engineering in 1993 from the University of Colorado-Boulder. Dr. Jacoby was employed with the National Renewable Energy Laboratory until he began with the Department of Chemical Engineering at the University of Missouri in 1997. He joined the Department of Biological Engineering in 2007.

DATE • TIME • LOCATION:

Tuesday, March 4, 4:00 pm
Ag Eng Bldg 105 • Refreshments