

The BATON ROUGE SECTION of the AMERICAN CHEMICAL SOCIETY

presents

Biomass to Fuels - Sustainable Energy Research
Center at Mississippi State University

by

Dr. Mark White

Traditional fuel sources such as petroleum are non-renewable resources and will eventually run out. Before that time arrives, researchers must provide economical alternative sources of fuels to maintain and grow the world economy. Check out the leading edge research in sustainable alternative fuels going on at Mississippi State University with Dr. Mark White, chair of the Swalm School of Chemical Engineering

Monday, March 10, 2008

At

Pinchback Hall Room 123
Robert E Smith Drive
Southern University

Dinner at 6:00 p.m.

Red Beans, Rice, and Sausage, Bread Pudding

Dr. White's presentation will follow the meal

\$6 for Members and Guests, \$4 for Students

Please RSVP to Phillip Voegel at phillip.voegel@selu.edu by Thursday, March 6th.

All Are Welcome

Invite your students and co-workers!

Abstract:

The need to find economical and sustainable replacements for petroleum drives the research to find appropriate indigenous feedstocks and the corresponding technologies to convert these sources of carbon into liquid fuels and chemicals. Researchers in the Sustainable Energy Research Center at Mississippi State University are examining lignocellulose feedstocks as the sources of carbon to be processed by three pathways: 1) microbial-induced conversion technologies; 2) fast pyrolysis to liquid products; and 3) gasification to synthesis gas followed by catalytic conversion to fuels by a non-FT process. A brief overview of the first two technologies will be followed by a more detailed discussion of the third technology.

Speaker's bio:

Mark White is a professor of chemical engineering and director of the David C. Swalm School of Chemical Engineering at Mississippi State University. His tenure at MSU began in 2006 following a 28 year career in teaching and research at the Georgia Institute of Technology. His academic career began with a B.S.Ch.E. from the University of Texas at Austin in 1971. He completed his M.S.Ch.E at Purdue University in 1973. His Ph.D. work was completed in 1978 at Rice University where his doctoral dissertation was selected for the Sigma Xi Excellence Award. During the summers of 1970 and 1971 Dr. White served as a summer engineer for Amoco Oil and returned to Amoco for two years following completion of his masters degree. After completing his Ph.D. Dr. White joined the faculty at Georgia Tech as an assistant professor and received Sigma Xi awards as an undergraduate thesis advisor in 1991 and 2002 and as a doctoral thesis advisor in 1988 and 1998. From 1991 – 2005 he served as Director of the Focused Research Program in Surface Science and Catalysis at Georgia Tech. He has more than 75 peer-reviewed publications, authored a textbook on heterogeneous catalysis, and supervised more than 30 post-doctoral, doctoral, and masters students. He currently serves on the editorial board of the *Journal of Molecular Catalysis A: Chemical*.

Driving Directions:

Exit I-110 at Harding Blvd/Metro Airport

Go West Bound on Harding Blvd

Cross Scenic Highway and go onto the Overpass Towards Southern

As soon as you come down the overpass, make a right

Enter the road at the perimeter of the Felton C. Clark Activity Center and turn left on this road

Travel to the opposite side of the Activity center along the perimeter road to Swan Ave (at a traffic Light)

Make a Left onto Swan Ave

At Stop Sign, make a right onto Robert E Smith Drive.

Pinchback Hall is on the Right Side just past the Financial Aid Building

There is parking at the corner of Swan and Robert E Smith and a smaller lot in front of Pinchback hall