

Join us on Tuesday, September 3, 2002, for a brown bag luncheon sponsored by Oak Ridge National Laboratory. This is the second in a series of noon presentations to be held at ORNL's Washington offices. Topics will focus on new and innovative energy efficiency and renewable energy analysis and technologies. Joel Eisenberg and Patti Garland will be co-chairing the series. Please RSVP to [suttonc@ornl.gov](mailto:suttonc@ornl.gov) or call 202-479-0447 by Friday, August 30, 2002.

A "Brown Bag" Luncheon Series

## BIOMASS FEEDSTOCK ENGINEERING – OPPORTUNITIES AND INNOVATIONS

Presented by Shahab Sokhansanj, P.Eng.  
Oak Ridge National Laboratory  
Tuesday, September 3, 2002  
12:00 noon – 1:00 pm (Conference Room A&B)  
901 D Street, SW, 9<sup>th</sup> Floor, Washington, DC (the Aerospace Building)

From giant walking robots scavenging the forest floor gathering excess slush and thinning to all-in-one machines that collect, sort and compact in a single operation, industry government partnerships are developing innovative ways to deliver biomass to the emerging biorefineries at a competitive price. The development of these innovations is stimulated by prospects of an emerging biomass market that may exceed 150 million dry tons in 2010 and three times more in 2020. Feedstock Engineering is primarily addressing the improvement of residues and



biomass crops for advanced technologies producing sugars, syngas, biocrude, and power. For these products, which could have large markets, an optimized infrastructure is being created for supplying the feedstock materials. That infrastructure is expected to generate new business opportunities for feedstock supply enterprises that are mostly or entirely separate from companies operating biorefineries producing fuels, chemicals and power.

**This presentation** reviews the impact of biomass feedstock on the equipment industry, state of the art equipment, and current national and international biomass-to-feedstock research.



**Shahab Sokhansanj** is with the Bioenergy Systems Group at the Oak Ridge National Laboratory (ORNL). As an ORNL distinguished research scientist, Dr. Sokhansanj is leading research on feedstock engineering and supply logistics. His current focus is on cost-effective innovative techniques for collecting and densifying of biomass for the emerging biorefineries. His research is conducted in collaboration with industry, Virginia Tech, and the Universities of Tennessee, Kentucky, British Columbia, and Saskatchewan.

Prior to joining ORNL in 2001, Dr. Sokhansanj was a Professor of Agricultural and Bioresource Engineering at the University of Saskatchewan, Canada, where he led an active teaching and research program in postharvest systems engineering. Shahab Sokhansanj is a registered Professional Engineer.

901 D Street, SW (the Aerospace Building) is located 1 block south of the Forrestal Building, off of L'Enfant Promenade, in downtown Washington (**you must use the D Street entrance due to enhanced security**). For more information, please contact Carolyn Sutton at ORNL at 202-479-0447 or [suttonc@ornl.gov](mailto:suttonc@ornl.gov)

For more information on ORNL's EERE Program, please visit [http://www.ornl.gov/ORNL/Energy\\_Eff/Energy\\_Eff.html](http://www.ornl.gov/ORNL/Energy_Eff/Energy_Eff.html)

