Special Open Seminar

Prof. Vijay Singh

(Associate Director of Engineering, Center for Advanced BioEnergy Research, Department of Agricultural and Biological Engineering)



Title : "Bioprocessing Technologies for Industrial Products and Fuels"

Room: W-102, Faculty of Agriculture Building

Time and Date: 15:00~15:45, Aug. 4 (Mon), 2014

Abstract: Grain bioprocessing has grown more than 600% in the last ten years due to demand for biofuels and bioproducts. As of January 2014, there are 192 plants producing 13.9 billion gallons of corn ethanol per year. This is 38.6% of the total biofuels capacity mandated by the year 2022 by the Renewable Fuels Standard within the US Energy Independence and Security Act. Biomass processing for cellulosic ethanol is also getting commercialized and several plants are expected to start producing cellulosic ethanol by end of 2014. Improvements in feedstock development, fermentation technology, biocatalysis and process design are required to further improve conversion efficiency, recover new bioproducts and improve plant profitability. Several new technologies related to plant and microbial genetics, biocatalysis and process development are being investigated at the Center of Advanced BioEnergy Research at the University of Illinois. Compared to the conventional process, these technologies can increase plant throughput, reduce enzyme dose, increase fermentation rate, reduce substrate and product inhibition and recover higher value bioproducts.

Anyone is welcome! Contact person: Prof. Naoshi Kondo (6170)

