



Chemical Reactor Engineering Centre (CREC) - 2011-Seminar Series

Reactor Engineering for Fluidized Bed Processes

Location: SEB 2099 UWO **Date:** June 29, 2011 **Time:** 9:00 am – 3:00 pm

...Sponsored as part of the MITACS Elevate Seminars

Topics and Areas of Interest:

The scaling up of technologies of critical value for commercialization, initially developed in laboratory settings (e.g. biomass gasification, chemical looping combustion for CO₂ capture). A look will be given into strategies for computational modeling and experimentation at different scales (laboratory, prototype, commercial).

Three prestigious lecturers will participate:

- **9:00-10:00 am** Dr. Thomas O'Brien-National Energy Technology Laboratory (NETL), US Department of Energy. Topic: *Development and Application of CFD Models for Industrial Scale Chemical Looping Combustion.*
- **10:00-11:00am** Dr. Ted Knowlton- Particulate Solid Research, Inc. (PSRI), Chicago, IL, USA. Topic: *Hydrodynamic Scale Up of Fluidized Beds.*
- **11:00-12:00 am** Dr. Hugo de Lasa- Professor, CREC-CBE, The University of Western of Ontario, London, Canada. Topic: *Reaction Engineering of Catalytic Gasification of Biomass*

A Round Table discussion will take place:

Early afternoon (**1:00pm- 2:00pm**). The round table will be chaired by *Dr. Paul Ege, President and CEO, Reactech Process Development Inc., Ontario*, counting in addition to the lecturers with the participation of *Dr. J. Zhu and Dr. A. Ray from UWO*.

We are inviting...

Graduate students, post-doctoral fellows, professors and industry researchers interested and working in these fields.

A lunch:

A lunch will be offered to the attendees in the atrium of the Claudette McKay Lassonde Pavilion (CMLP). Places for attendees are limited to 50. Please confirm your participation to Dr. Islam as soon as possible by e-mail. (Email: mislam45@uwo.ca)

Organizers: Alireza Abbasi-CREC-UWO, Chair, Md Ashraful Islam- CREC-UWO, Co-Chair
Industrial Sponsors: Reactech Process Development Inc. and Recat Technologies Inc.