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Workshop for Chemical & Energy Industries in Louisiana

EPIC WORKSHOP ENABLING PROCESS INNOVATION THROUGH COMPUTATION

To Promote University-Industry Collaboration in Research & Advanced Workforce Development

DATE: APRIL 3, 2014; 7:30 AM - 1:00 PM

LOCATION: Digital Media Center, LSU [Map it!](#)

By Invitation Only Contact nandakumar@lsu.edu for more information.

TECHNICAL PROGRAM:

7:30-8:00 AM	Registration, Coffee
8:00-8:30 AM	Opening Remarks and Introductions Stuart R. Bell - Executive Vice Chancellor, LSU K.T. Valsaraj - Vice Chancellor, Office of Research & Economic Development, LSU R. Koubek - Dean, College of Engineering, LSU
8:30-9:00 AM	K. Nandakumar - Cain Chair Professor, Chemical Engineering, LSU "Meeting the process innovation needs of Louisiana chemical industry"
9:00-10:00 AM	J.B. Joshi - Chair Professor of DAE-Homi Bhabha National Institute Mumbai, India "On wealth generation through university-industry collaboration"
10:00-10:20 AM	Coffee Break
10:20-10:40 AM	Mayank Tyagi - Associate Professor, Petroleum Engineering and Center for Computation & Technology, LSU
10:40-11:00 AM	Omar Matar - Professor of Fluid Mechanics, Imperial College London "Multi-scale exploration of multiphase physics in flows (MEMPHIS) in United Kingdom"
11:00-11:20 AM	Jennifer Curtis, Distinguished Professor, Chemical Engineering, University of Florida, Gainesville
11:20-11:40 AM	Alberto Passalacqua, Assistant Professor, Mechanical Engineering, Iowa State University
11:40-12:00 PM	Blaise Bourdin, Associate Professor, Math, LSU
12:00-1:00 PM	Continued Discussions over Boxed Lunch

WHO SHOULD ATTEND:

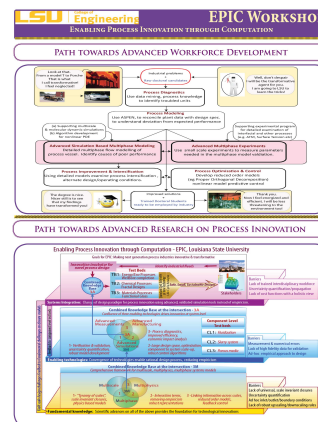
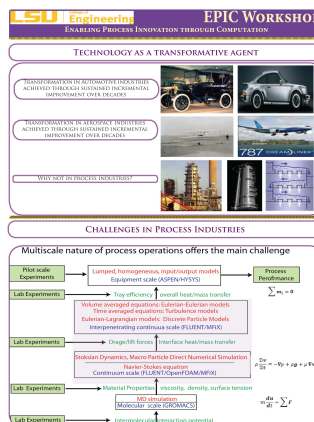
This workshop should be of interest to R&D and plant managers in the following industries. Government officials and industry leaders interested in advanced workforce development and economic development should also be able to assess the importance of this area in their portfolio.

- Chemical Process Industries: Mixers & Blenders, Stagewise & packed bed separation processes, Bubble column reactors, fluidized bed reactors, trickle bed reactors, slurry/loop reactors, corrosion problems.
- Oil and Gas Processing Industries: Wellbore flow dynamics, underground heaters, formation damage problems, porous media flows, gas processing operations, Hydraulic fracturing.
- Mineral Processing Industries: Flotation processes, gravity separation process, hydrocyclones, slurry flows in pipelines, erosion problems.
- Biofuel & Biochemical Process Industries: Fermenters, bioreactors, solid-liquid separations, evaporators, clarifiers.
- Environmental Process Industries: Purification, separation processes, deep and shallow water oil spill dynamics, flares design.
- Optimization and Intensification of Processes: Use of process models of increasing fidelity, from steady state lumped models, dynamic lumped models, to two-fluid models (TFM), discrete particle models (DPM), turbulence models, non-Newtonian models etc to develop a detailed understanding of all of the above types of processes for achieving process optimization and intensification.

RSVP [by registering HERE](#).

About EPIC: EPIC is about bringing academia, industry and government together in the fields of Chemical, Mechanical, Environmental, Petroleum and Bioprocess Engineering, to promote advanced research and workforce development in the areas of chemical and energy industries in Louisiana and around the nation. It is founded on sound technical fundamentals involving Multiphase, Multiscale, Multiphysics (3M) processes that are commonly found in the 300 or so plants operating in Louisiana. Our goal is to synthesize Advanced Models, Advanced Measurements and Advanced Manufacturing (3A) to enable process innovation. Distinguished speakers from academia will present their vision for building a consortium, a research center leading to a permanent national institute on process innovation involving multiphase flows applicable to a range of industries.

For more information on EPIC, visit: <http://epic.lsu.edu>





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