



You are cordially invited to a half-day workshop on
Mathematical Modeling of Transport Phenomena

Organized by

**Mechanical Engineering Department
 and**

Minerals, Metals and Materials Technology Centre (M3TC), NUS, Singapore

Chair: Dr. Poh Hee Joo, Institute of High Performance Computing, A-STAR, Singapore

Co-Chair: Dr. Sachin V. Jangam, Research Fellow, M3TC, NUS, Singapore

Date: Saturday, April 9, 2011

Time: 8:30 AM-1:00 PM

Venue: Faculty of Engineering, National University of Singapore (Room EA-06-04)

Program#

08:20-8:45	Registration		
08:30-08:45	Introduction-Role of Mathematical Modeling in Industrial Transport Processes	Prof Arun S Mujumdar	Department of Mechanical Engineering and M3TC, NUS
08:45-09:15	Mass transport enhancement in T-junction micro-reactor	Hassanali G.H. and Marjan S.	Department of Mechanical Engineering, NUS
09:15-09:45	Modeling combustion of single coal/coal-biomass particle	Osman Hafiiz and Azhar Bin Ismail	Department of Mechanical Engineering, NUS
09:45-10:15	Effect of pulsating inflow in T-junction micro-reactor	Balaji Mohan and Jiang Puqing	Department of Mechanical Engineering, NUS
10:15-10:45	Heat and mass transfer during 'frying'	Simon Falser and Tan Chuan Giap	Department of Mechanical Engineering, NUS
10:45-11:00	Coffee Break		
11:00-11:30	Non-planar Impinging jet drying	Tong Wei and Wang Yue	Department of Mechanical Engineering, NUS
11:30-12:00	Investigation of mass transport & heterogeneous reaction in various channel configurations	An Hui and Li Ang	Department of Mechanical Engineering, NUS
12:00-12:30	Investigation of heat and mass transfer for Impinging stream drying using various geometries	Hendrik Tjiawi and Loh Kwong Lam	Department of Mechanical Engineering, NUS
12:30-13:00	Open Discussion		

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For details and updates, please visit <http://serve.me.nus.edu.sg/arun/>

Admission is free

Papers and/or PowerPoint handouts will be made available as an e-book to participants only