



Minerals, Metals, and Materials Technology Centre



NUS
National University
of Singapore

You are cordially invited to a half-day workshop organized by
Minerals, Metals, and Materials Technology Centre (M3TC) on

Workshop on Mathematical Modeling in Minerals, Metals and Materials Processing (WM5P)

Organized by

Minerals, Metals & Materials Technology Centre, M3TC

Chair: Prof Arun S Mujumdar, Professor of Mechanical Engineering & Centre Director, M3TC

Co-chairs: Dr. Wu Zhonghua and Dr. Xu Peng

Date: Saturday, 14 March 2009

Time: 8:30 AM-1:15 PM

Venue: EA-02-11, Faculty of Engineering, National University of Singapore

Programme

8:30-8:45 AM	Registration		
8:45-9:00 AM	Introduction: Role of mathematical modeling in MMM processing	Prof Arun S. Mujumdar	Minerals, Metals, and Materials Technology Centre (M3TC), NUS
9:00-9:30 AM	Flow behaviors of tundish used in steelmaking via CFD modeling	Dr. WU Zhonghua	Minerals, Metals, and Materials Technology Centre (M3TC), NUS
9:30-9:55 AM	Innovative designs of hydrocyclones with CFD model	Dr. XU Peng	NUS & Huazhong University of Science and Technology, China
9:55-10:20 AM	Heat and mass transfer in gels	Jundika Candra Kurnia	Department of Mechanical Engineering, NUS
10:20-10:50 AM	Mathematical modeling of Spray drying	Woo Meng Wai	National University of Malaysia. (UKM) KL, Malaysia
10:50-11:20 AM	Coffee Break		
11:20-11:50 AM	Modeling PEMFCs and new designs via the CFD approach	Poh Hee Joo	Institute of High Performance Computing & NUS
11:50-12:20 AM	Fuel cell stacks-Thermal Management	Mr. Agus Pulung Sasmito	Department of Mechanical Engineering, NUS
12:20-12:50 PM	Modeling of Lithium ion battery	S. Karthik	Department of Mechanical Engineering, NUS

Contact for registration: Dr. Wu Zhonghua, Tel: 6516 8870, E-mail: mpewz@nus.edu.sg

For details and updates, please visit <http://serve.me.nus.edu.sg/aron/> and <http://www.eng.nus.edu.sg/m3tc/>

***** Seats are limited. Please register early. Admission is free *****