

Mini workshop on Multi-scale simulation

Date: April 7, 2009 (Tuesday), 9:30 AM ~ 18:00 PM

Place: Auditorium on 1st floor, Institute of Physics, Academia Sinica

Host:

Dr. Maw-Kuen Wu (Institute of Physics, Academia Sinica)

Dr. Ting-Kuo Lee (Institute of Physics, Academia Sinica)



09:30 ~ 09:50

Opening

Dr. Maw-Kuen Wu (Institute of Physics, Academia Sinica)

Dr. Chang Jim (Air Force Office of Scientific Research / Asian Office of Aerospace Research and Development)

09:50 ~ 10:20

Field Theory of Multiscale Plasticity and Its Applications

Dr. HASEBE Tadashi (Graduate School of Engineering, Kobe University)

10:20 ~ 10:50

Concurrent and Adaptive Molecular-Continuum Simulation for Amorphous Materials

Dr. Tay Tong Earn, Dr. Tan B C Vincent (Department of Mechanical Engineering, National University of Singapore)

10:50 ~ 11:20

Coffee break

11:20 ~ 11:50

Development of Non-reflecting Boundary Conditions for Computational Nanomechanics

Dr. Fei-Bin Hsiao (Institute of Aeronautics and Astronautics, National Cheng Kung University)

11:50 ~ 12:20

A Multi-scale Perspective on Asperity Contact Mechanics

Dr. Yeau-Ren Jeng (Institute of Mechanical Engineering, National Chung Cheng University)

14:00 ~ 14:30

Multiscale modeling of semiconductor nanostructures

Dr. Yia-Chung Chang (Research Center for Applied Sciences, Academia Sinica)

14:30 ~ 15:00

A New Look at the Quasicontinuum Method

Dr. Chuin-Shan Chen (Department of Civil Engineering and MicroSystems, National Taiwan University)

15:00 ~ 15:30

Hierarchical Multiscale Simulation Method

Dr. I-Ling Chang (Institute of Mechanical Engineering, National Chung Cheng University)

15:30 ~ 16:00

Coffee break

16:00 ~ 16:30

Multi-scale modeling of polymer dynamics in microfluidic flow, a hybrid molecular dynamics / lattice Boltzmann approach

Dr. Yeng-Long Chen (Institute of Physics, Academia Sinica)

16:30 ~ 18:00

Discussion

Contact: Mrs. Chen 2789-9823