

5th MPM Workshop, April 2-3, 2009, Corvallis, OR

Time	Person	Affiliation	Title
Thursday, April 2, 2009			
8:00AM	Room opens, coffee, <i>etc.</i>		
8:25AM	Welcome, John A. Nairn		
8:30AM	MPM Overview (discussion leader: Scott Bardenhagen)		
8:30AM	Zhen Chen	University of Missouri	An Overview of the MPM over the Last 15 Years
9:00AM	Jim Guilkey	Schlumberger	An Overview of the Generalized Interpolation Material Point Method with an Emphasis on Unresolved Issues
9:30AM	Tim Bartel	Sandia National Lab	Multi-scale modeling with MPM
10:00AM	Coffee Break		
10:30AM	Surfaces and Multi-materials (discussion leader: Tim Bartel)		
10:30AM	Carter Mast	University of Washington	Grid independent, bounding surfaces
11:00AM	Duan Z. Zhang	Los Alamos National Lab	Computation of Multi-Material Interactions Using Material Point Method
11:30AM	Jason Sanchez	University of New Mexico	Alternative Aspects of Cohesive Crack Modeling With the Material Point Method
12:00PM	Lunch, Hilton Garden Hotel Restaurant (catered)		
1:15PM	Multi-phase and MPM Analysis (discussion leader: Jim Guilkey)		
1:15PM	Peter Mackenzie-Helnwein	University of Washington	Modeling drag force interaction for multi-phase flow using MPM with distinct phases
1:45PM	Mike Steffen	University of Utah	Decoupling and Balancing of Space and Time Errors in the Material Point Method
2:15PM	Phil Wallstedt	University of Utah	Experiences with Weighted Least Squares in the MPM/GIMP Framework
2:45PM	Coffee Break		
3:00PM	Wood, snow, dirt, and rocks (discussion leader: Peter Mackenzie-Helnwein)		
3:00PM	John Nairn	Oregon State University	MPM Simulation of Fracture Including Both Crack Tip Fracture Mechanics and Fiber Bridging Traction Laws - Application to Fracture of Composites and Medium Density Fiber Board (MDF)
3:30PM	Jonah Lee	University of Alaska	Simulation of the Mechanical Properties of Snow and Mud using Uintah
4:00PM	Wookuen Shin	University of Washington	3D modeling of landslides and debris-flows
6:30PM	Conference Dinner, Big River, downtown Corvallis		
Friday, April 3, 2009			
8:00AM	Room opens, coffee, <i>etc.</i>		
8:30AM	MPM Applications (discussion leader: Jonah Lee)		
8:30AM	Jeff Burghardt	University of Utah	Use of MPM for simulating penetration of geologic materials with particulated metal jets
9:00AM	Wije Wathugala	ACTA Inc.	Applications of CartaBlanca for Simulation of Breakup of Various Engineering Materials
9:30AM	Edward Le	Oregon State University	MPM Simulations of the Mechanical Properties of Oriented Strand Board (OSB) Accounting for Undulating Strands and Imperfect Glue Bonds
10:00AM	Coffee Break		
10:30AM	MPM Discussion Topics (discussion leader: John Nairn)		
12:00PM	Adjourn		