

---

## Thursday, March 14, 2013

---

8:00 **Welcome reception** and breakfast at INSCC Room 110 at the University of Utah

8:20 **Opening Remarks** by *Rebecca Brannon*

### MPM with other methods

---

Time	Person	Affiliation	Title
8:30	Zhen Chen	University of Missouri	The Combination of the MPM with Other Methods for Multi-physics and/or Multi-scale Simulation
9:00	Duan Zhang	Los Alamos National Laboratory	Multi-velocity formulation for Pulverization Problems
9:30	Shane Schumacher	Sandia National Laboratory	MPM Workshop 2013
10:00	<b>Coffee Break</b>		

### Multi-materials and MPM

---

10:30	Pedro Arduino	University of Washington	Response Analysis of Granular Flows using MPM
11:00	Edward Le	Oregon State University	MPM Simulation of Acoustic Behavior
11:30	Martin Berzins	University of Utah	An Analysis of the Stability of the PIC and MPM Methods
12:00 - 12:15	<b>Walk to Lunch</b>		
12:15 - 1:30	<b>Lunch</b> at Market Street Grill 258 S 1300 E, Salt Lake City, Utah 84102		

### New methods in MPM

---

13:30	Michael Homel	University of Utah	Physically Motivated Numerical Fracture for MPM with Convective Particle Domain Interpolation
14:00	Yamina Aimene	University of the Antilles and Guyana	Wood transverse compression using hyperelastic plastic behavior simulated in The Material Point Method
14:30	Carlos Bonifasi-Lista	University of Utah	New Developments in Particle-Based Method for Blast Simulation of Explosives
15:00	<b>Coffee Break</b>		

### Fracture, Cracks using MPM

---

15:30	John Nairn	Oregon State University	Combining Cracks and Contact with Constitutive and Cohesive laws for Complete Calculations of Cutting
16:00	Hongbing Lu	The University of Texas at Dallas	Fracture analysis of cellular microstructures from Digital Volume Correlation Analysis and Simulation in Compression
16:30	Robert H Kaulbach	The University of Texas at Dallas	Recreating the damage process in a Mock Explosive material from Microtomography Images
18:30	<b>Dinner</b> at Aristo's (near campus, Greek cuisine)		

---

## Friday, March 15, 2013

---

8:00 **Breakfast**

### MPM applications and post-processing

---

8:30	Wije Wathugala	ACTA Inc.	Simulations of Shallow Underground Explosions in Soil Using MPM-MPF Code CartaBlanca
9:00	Søren Mikkel Anderson	Aalborg University	Post-Processing in the Material-Point Method
9:30	H.L. Schreyer	University of New Mexico	Features of Fracture Distribution around a Tunnel caused by Blast Pulses
10:00	<b>Coffee Break</b>		
10:30	Scott Bardenhagen	WMI	Mesoscale Morphology Analysis
11:00	<b>MPM Discussion Session: Issues faced by MPM community</b>		
12:00	Concluding remarks, Lunch, Adjourn		