

8th Annual Northeastern

Granular Materials Workshop

Friday June 11th, 2010

Schlumberger-Doll Research

One Hampshire Street, Cambridge Ma 02139

Agenda Auditorium

Friday, June 11, 2010

8:30 - 9:30	Registration	
8:30 - 9:30	Breakfast	Collaboratory
9:30 - 9:35	Welcome and QHSE	David Johnson
9:35 - 10:15	<i>The effective mass of a granular medium: implications for the attenuation of structure borne sound</i>	John Valenza
10:15 - 10:30	<i>Jammed Particulate Systems Are Highly Anharmonic Solids</i>	Carl Schreck
10:30 - 10:45	<i>Burrowing through soil</i>	Julio Guerrero
10:45 - 11:10	Break	
11:10 - 11:50	<i>Steady Granular Flow: Continuum Theory, Simulation, and Computational Challenges</i>	Ken Kamrin
11:50 - 12:30	<i>Vibrations and rearrangements in marginally jammed systems</i>	Andrea Liu
12:30 - 1:30	Lunch	
1:30 - 1:45	<i>Particle Methods for Multi-Phase Flow in Porous Media</i>	David Holmes
1:45 - 2:00	<i>A first-order phase transition at the random close packing of hard spheres</i>	Yuliang Jin
2:00 - 2:15	<i>Theory of ice premelting in porous media</i>	Hendrik Hansen-Goos
2:15 - 2:45	Break	
2:45 - 3:00	<i>A pattern switch in a granular crystal</i>	Katia Bertoldi
3:00 - 3:15	<i>Random to ordered dense granular packings</i>	Katha Reddy
3:15 - 3:55	<i>Constitutive laws and transient jamming in vertical-channel granular flows</i>	Don Candela
4:00	Adjourn	