**Schedule for 13th Granular Materials Workshop**
**Clark University, Sackler Sciences Center**
**Johnson Auditorium (Room S-120)**
**Friday, June 12, 2015**

9:00 – 9:25 Registration/Breakfast (Sackler lobby)

**Session: Modelling Granular Matter -** Chair: Arshad Kudrolli

9:25 - 10:10 *Three-dimensional continuum modeling of dense granular flow* David Henann, Brown University
10:10 - 10:20 *Non-universal behavior in the bubble model: it's a drag* Craig Maloney, Northeastern University
10:20 - 10:30 *Experiments on 2d Arrays of Trapped Magnetized Balls: Static Shell Configurations and Velocity Distributions under Mechanical Agitation* Peter Koch, Stony Brook U.

**Coffee/Posters**

**Session: Grain-Fluid Interactions -** Chair: Mark Shattuck

11:00 - 11:45 *Discharge and clogging of grains from a hopper, and the influence of interstitial fluid* Doug Durian, University of Pennsylvania
11:45 - 11:55 *Onset and cessation of motion in fluid-sheared granular beds* Abe Clark, Yale University
11:55 - 12:05 *A visco-granular model of sedimentation in hydrogels* Xavier Clotet, Clark University

**Lunch (Tilton Hall, Higgins University Center)**

**Session: Geometry, Elasticity, and Locomotion -** Chair: Nalini Easwar

1:30 - 2:15 *Harnessing instabilities in soft structures to enhance performance* Katia Bertoldi, Harvard University
2:15 - 2:25 *Running on shear thickening suspensions* Shomeek Mukhopadhyay, Yale University
2:25 - 2:35 *The effect of head shape on penetration of granular materials: An analysis of lizard mechanical models* Philip Bergmann, Clark University
2:35 – 2:45 *DEM analysis of mechanical interactions between a growing root and a granular soil* Mahmoud Fakih, Montpellier University

**Coffee/Posters**

**Session: Plasticity and Jamming -** Chair: Narayanan Menon

3:00 - 3:10 *Memory Effect in Crumpled Thin Sheets* Yoav Lahini, MIT
3:10 - 3:20 *Why are ternary systems better glass formers?* Kai Zhang, Yale University
3:20 – 4:05 *Shear-induced jamming of granular packings* Corey O'Hern, Yale University

**Discussion and Lab tour**

4:05 – 5:00

**List of Posters**

*Particle Scale Erosion by Shear Flow*
Benjamin Allen, Clark University

*The origin of resistive force theory in granular materials*
Hesam Askari, MIT

*Segregation dynamics in fluid-driven annular couette flow: contribution of subsurface processes to surface armoring in an idealized riverbed*
Behrooz Ferdowsi, University of Pennsylvania

*Enhanced Oil recovery with Polymer Flooding*
Shima Parsa, Harvard University

*Mobility Condition for a Particle on a Rough Surface in a Fluid Flow*
David Scheff, Clark University