**Schedule for 14th Northeast Granular Workshop**

**University of Massachusetts Amherst**

**1630 Lederle Graduate Tower**

**Friday June 3rd, 2016**

9-9:25 Registration, refreshments

*Invited talks 30 mins talk + 6 mins questions; Short talks 10+2 mins*

**Session 1 Glassy grains and memory** *Chair:**Shubha Tewari*

9:30-10:06 Joseph D Paulsen Multiple memory formation in a sheared granular suspension

10.06-10:18 Meng Fan The effects of cooling rate on reversibility and elasticity in model glasses

10:18-10:30 Kabir Ramola, [Disordered Contact Networks in Jammed Packings of Frictionless Disks](http://gibbs.engr.ccny.cuny.edu/NEGW/viewabstract.php?id=382)

Coffee/**Posters**

**Session 2 Erosion and flow initiation** *Chair:**Mark Shattuck*

11:00 – 11:36 Arshad Kudrolli [***Sediment transport and channelization in rivers and fractures***](http://gibbs.engr.ccny.cuny.edu/NEGW/viewabstract.php?id=59)

11:36 – 11:48 Patrick Mutabaruka [Triggering mechanisms of immersed granular avalanches](http://gibbs.engr.ccny.cuny.edu/NEGW/viewabstract.php?id=356)

11:48 - 12:00 Sumit Birwa [Distribution of unjamming times of a vibrated granular hopper](http://gibbs.engr.ccny.cuny.edu/NEGW/viewabstract.php?id=393)

Lunch

**Session 3 Designed granular media** *Chair:**Corey O’Hern*

1:15 - 1:27 Craig Maloney [Gelation and mechanical response of patchy rods.](http://gibbs.engr.ccny.cuny.edu/NEGW/viewabstract.php?id=324)

1:27 – 2:03 Aparna Baskaran Active fluids and granular fluids: Comparing two inherently non-equilibrium systems

2:03 – 2:15 Lee Walsh [Noise and diffusion in vibrated self-propelled granular particles](http://gibbs.engr.ccny.cuny.edu/NEGW/viewabstract.php?id=246)

**2:15 – 2:25 Organizational discussion**

Coffee/**Posters**

**Session 4 Breaking down granular matter** *Chair:**Don Candela*

3:00 - 3:12 David Cantor [Bonded-Cell method for particle crushing in 3D](http://gibbs.engr.ccny.cuny.edu/NEGW/viewabstract.php?id=387)

3:12 - 3:24 Guga Gogia [Emergent Phenomena in 2D Dusty Plasma Crystals](http://gibbs.engr.ccny.cuny.edu/NEGW/viewabstract.php?id=370)

3:24 - 4:00 Nick Gravish Ant collective construction and locomotion in granular substrates

**Poster presentations**

Hamed Abdi

[Paramagnetic Colloids Under Rotating Fields: From Chain Through Chaos to Clusters and Molecules](http://gibbs.engr.ccny.cuny.edu/NEGW/viewabstract.php?id=378)

Abe Clarke

[Geometric strengthening of fluid-sheared granular beds](http://gibbs.engr.ccny.cuny.edu/NEGW/viewabstract.php?id=326)

Keely Criddle

[3D Flow through Porous Media](http://gibbs.engr.ccny.cuny.edu/NEGW/viewabstract.php?id=374)

Omer Gottesman

[Crumpling dynamics and the evolution of damage networks](http://gibbs.engr.ccny.cuny.edu/NEGW/viewabstract.php?id=376)

Deepak Kumar

[Granular self organization by autotuning of friction](http://gibbs.engr.ccny.cuny.edu/NEGW/viewabstract.php?id=380)

Charles Lewis

[Cohesion amongst Grains in Charged Powders](http://gibbs.engr.ccny.cuny.edu/NEGW/viewabstract.php?id=383)

Daren Liu

[Continuum Modeling of Granular Flow Down Heaps](http://gibbs.engr.ccny.cuny.edu/NEGW/viewabstract.php?id=299)

Rijan Maharjan

[A new state transition in the rheology of dense suspensions](http://gibbs.engr.ccny.cuny.edu/NEGW/viewabstract.php?id=341)

Neil Shah

[Simulation of the effects of wall friction on hopper flow rates](http://gibbs.engr.ccny.cuny.edu/NEGW/viewabstract.php?id=334)

Peter Williams

*Modelling the mRNA-Ribosome Complex: A study of polymer diffusion in the bacterial cytoplasm*