15th Annual Northeastern

***Granular Materials Workshop***

Friday June 2nd, 2017

[Mechanical and Industrial Engineering](http://www.mie.neu.edu/), [Northeastern University](http://www.neu.edu/)

8:30 ***Breakfast***

***Invited talks*** *35 mins talk + 10 mins questions; Contributed talks 10+5 mins*

**Session 1** *Chair:*Craig Maloney

9:30 **Alfredo Alexander-Katz** [***Plastic Attraction and Other Strange Phenomena in Active Matter***](http://gibbs.engr.ccny.cuny.edu/NEGW/viewabstract.php?id=413)

10:15 Jesse Silverberg [*Extreme Human Collective Motion: A Granular Approach*](http://gibbs.engr.ccny.cuny.edu/NEGW/viewabstract.php?id=417)

10:30 Kyle VanderWerf [*Why do certain jammed packings of hard particles disobey Maxwell’s rigidity criterion?*](http://gibbs.engr.ccny.cuny.edu/NEGW/viewabstract.php?id=388)

10:45 *Coffee/****Posters***

**Session 2** *Chair:**Corey O’Hern*

11:15 **Abe Clark** [***Critical scaling of the granular yielding transition***](http://gibbs.engr.ccny.cuny.edu/NEGW/viewabstract.php?id=410)

12:00 Christian Hubicki [*Optimizing robotic jumping on granular media*](http://gibbs.engr.ccny.cuny.edu/NEGW/viewabstract.php?id=426)

12:15 Benjamin Allen [*Armoring and morphology of a granular bed below the critical Shield's number in shear flow*](http://gibbs.engr.ccny.cuny.edu/NEGW/viewabstract.php?id=329)

12:30 ***Lunch***

**Session 3** *Chair:**N. Menon*

1:30 **Tony Dinsmore** [***Measuring the yield stress of charged granular media***](http://gibbs.engr.ccny.cuny.edu/NEGW/viewabstract.php?id=136)

2:15 *Coffee/Snack/****Posters***

**Session 4** *Chair:**Mark Shattuck*

2:45 Alex Solon [*Transient Casimir Forces from Quenches in Thermal and Active Matter*](http://gibbs.engr.ccny.cuny.edu/NEGW/viewabstract.php?id=414)

3:00 Qiong Zhang [*Microscopic Description of the Granular Fluidity Field in Nonlocal Flow Modeling*](http://gibbs.engr.ccny.cuny.edu/NEGW/viewabstract.php?id=418)

3:15 **Bodhi Chauduri** [***Experimentally validated numerical modeling of tribocharging in pharmaceutical powders***](http://gibbs.engr.ccny.cuny.edu/NEGW/viewabstract.php?id=409)

4:00 ***Adjourn***

**Poster presentations**

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| Hamed Abdi | Northeastern | [*Paramagnetic Colloids: Chaotic Routes to Clusters and Molecules*](http://gibbs.engr.ccny.cuny.edu/NEGW/viewabstract.php?id=434) |
| David Henann | Brown University | [*Size Dependence of the Yield Threshold in Dense Granular Materials*](http://gibbs.engr.ccny.cuny.edu/NEGW/viewabstract.php?id=292) |
| Shihong Li Li | Brown University | [*Stability of the nonlocal granular fluidity model for steady, dense granular flow*](http://gibbs.engr.ccny.cuny.edu/NEGW/viewabstract.php?id=359) |
| Prithviraj Nandigrami | Kent State University | [*Thermodynamic and Kinetic Representations of Cooperative Allosteric Binding in Calmodulin*](http://gibbs.engr.ccny.cuny.edu/NEGW/viewabstract.php?id=401) |
| Andreea Panaitescu | Clark University | [*Collective deformation of multi-filament packings under twist*](http://gibbs.engr.ccny.cuny.edu/NEGW/viewabstract.php?id=155) |
| David Schunter Jr. | Boston University | [*Elastogranular Mechanics*](http://gibbs.engr.ccny.cuny.edu/NEGW/viewabstract.php?id=424) |
| Lee Walsh | University of Massachusetts, Amherst | [*Noise and diffusion in vibrated self-propelled granular particles*](http://gibbs.engr.ccny.cuny.edu/NEGW/viewabstract.php?id=246) |