22nd Annual Northeastern

Granular Materials Workshop

Friday June 5th, 2026

Civil and Environmental Engineering, Princeton University

Schedule

9:00 - 9:15	**Introduction and Welcome**	
	Session I	
9:15 - 10:00	Invited Talk: *Learning Coupled Rheology and Segregation of Granular Flows from Data*	Konstantinos Karapiperis
10:00 -10:20	*Graph Representation Learning for Motif Analysis of Dense Sand*	WaiChing Sun
10:20 -10:40	**Coffee Break**	
	Session II	
10:40 -11:25	Invited Talk: *Granular Outflows: Geometry, Confinement, and Dense Jets*	Alban Sauret
11:25 -11:45	*Biogenic Bubbles Enable Long-Range Microbial Dispersal in Yield-Stress Environments*	Babak Vajdi Hokmabad
11:45 -12:45	**Sound Bite Session (6-7 mins each)**	Aram Bahmani, Enrique del Castillo, Pouria Hajizadeh, Shravan Pradeep, Oscar Punch, Mary Pat Reiter, Arshad Kudrolli, and Cyprien Soulaine
12:45 - 2:00	**Lunch**	
	Session III	
2:00 - 2:45	Invited Talk: *Locomotion within Granular Media in Animals and Robots*	Laura Treers
2:45 - 3:05	*Granular Dynamics of Magnetically-Responsive Microrollers*	James Gilchrist
3:05 - 3:35	**Break**	
	Session IV	
3:35 - 4:20	Invited Talk: *From Drops to Sandballs*	Hugo N. Ulloa
4:20 - 4:40	*Granular Geomorphology*	Troy Shinbrot
4:40 - 5:00	Comments, Next meeting, **Adjourn**	