

Location/Session/Chair	Wed June 12th	Talk	Speaker	Title
David Rittenhouse Lab A1	8:50 - 9:00	Opening	John and Doug	Welcome to the CSLM at Penn
	9:00 - 9:25	1	Bulbul Chakraborty	Universality and scaling in the proximity of jamming
<b>Session 1</b>	9:25 - 9:50	2	Ching-Yao Lai	Granular Geophysics in the Icy World
Chair: Doug Durian	9:50 - 10:15	3	Dan Blair	Weird Viscosity
(A1 lobby)	10:15 - 10:45	<b>Coffee Break</b>		
<b>Session 2</b>	10:45 - 11:10	4	Michael Rubinstein	The Loops of Life - Chromatin Conformations and Dynamics
Chair: Andrea Liu	11:10 - 11:35	5	Rae Robertson Anderson	Bio-powered materials: from topologically-active DNA to circadian colloids
	11:35 - 12:00	6	Cecilia Leal	Lipid nanoparticle topology regulates endosomal escape and delivery of RNA to the cytoplasm
Singh Center for Nanotechnology	12:00 to 1:15 PM	<b>Poster Session A</b> <b>Box LUNCH</b>		
David Rittenhouse Lab A1	1:15 - 1:40	7	Cynthia Sung	Hierarchical actuation and control for soft robots with programmable compliance
<b>Session 3</b>	1:40 - 2:05	8	Sharon Glotzer	The Physics of Flexicles
Chair: Chinedum Osuji	2:05 - 2:30	9	Nikta Fakhri	The many faces of living chiral crystals
	2:30 - 2:55	10	Marc Miskin	Microscopic robots with on-board sensors, processors and programmable memory
(A1 lobby)	2:55 - 3:25	<b>Coffee Break</b>		
<b>Session 4</b>	3:25 - 3:50	11	Lisa Manning	Physical learning near rigidity manifolds in biology and bio-inspired materials
Chair: Eleni Katifori	3:50 - 4:15	12	Katia Bertoldi	Shell buckling for programmable metafluids
	4:15 - 4:40	13	Xiaoming Mao	Backscattering-free one-way edge waves in auxetic elastic media
Singh Center for Nanotechnology	5:00 - 7:00 and beyond	<b>Poster Session B</b> Light fare and refreshments		
	<b>Thurs June 13</b>			
David Rittenhouse Lab A1	9:00 - 9:25	14	Zvonimir Dogic	Mechanics, assembly and disassembly of colloidosomes
<b>Session 5</b>	9:25 - 9:50	15	Arnold Mathijssen	Collective functionalities emerging in active matter
Chair: John Crocker	9:50 - 10:15	16	Jasna Brujic	DNA circuits program emulsion self-assembly in time and space
(A1 lobby)	10:15 - 10:45	<b>Coffee Break</b>		
<b>Session 6</b>	10:45 - 11:10	17	Margaret Gardel	Squishy Matter Controlling Cell Volume
Chair: Dennis Discher	11:10 - 11:35	18	Zev Gartner	Order from disorder: self-organization in development and disease
	11:35 - 12:00	19	Michael Murrell	Energetics of cytoskeletal assembly
Singh Center for Nanotechnology	12:00 to 1:15 PM	<b>Poster Session C</b> <b>Box LUNCH</b>		
David Rittenhouse Lab A1	1:15 - 1:40	20	Sujit Datta	Watching microbial life in complex environments
<b>Session 7</b>	1:40 - 2:05	21	Nuris Figueroa Morales	Bacteria swimming in anisotropic media: Locomotion strategies in the face of physical constraints.
Chair: Marc Miskin	2:05PM to 2:55 PM	Panel Discussion	David Weitz, Paul Chaikin, Dov Levine, Tom Lubensky, Andrea Liu, Chinedum Osuji, Dennis Discher + CSLM postdocs	Title: Soft and Living Matter at Penn, Past and Future
(A1 lobby)	2:55 - 3:25	<b>Coffee Break</b>		
<b>Session 8</b>	3:25 - 3:50	22	Ilya Nemenman	Signatures of low-dimensional dynamics in high-throughput biological data
Chair: Arnold Mathijssen	3:50 - 4:15	23	Arvind Murugan	Neural computation through learned phase diagrams
	4:15 - 4:40	24	Yuhai Tu	Nonequilibrium statistical physics in living systems: The role of energy dissipation for biological functions