**Monday, May 9**

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| 8:30 am-9:00 am | **Breakfast** | |
| 9:00 am-9:15 am | Organizers | Welcome |
| 9:15 am-10:00 am | Christian Santangelo | Programming branches in folding and mechanisms |
| 10:00 am-10:30 am | **Coffee Break** | |
| 10:30 am-11:15 am | Jasna Brujic | Folding Made Easy |
| 11:15 am-12:00 pm | Salvatore Torquato | Dynamic Measure of Hyperuniformity and Nonhyperuniformity in Heterogeneous Media via the Diffusion Spreadability |
| 12:00 pm-1:30 pm | **Lunch** | |
| 1:30 pm-2:15 pm | Eugenia Kumacheva | Polymer-tethered nanoparticles: from surface engineering to self-assembly |
| 2:15 pm-3:00 pm | Arvind Murugan | Pattern Recognition through nucleation |
| 3:00 pm-3:30 pm | **Tea Time** | |
| 3:30 pm-4:15 pm | Alexei Tkachenko | Complexity in material world and where it comes from |

**Tuesday, May 10**

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|---|---|---|
| 8:30 am-9:00 am | **Breakfast** | |
| 9:00 am-9:45 am | Andrej Kosmrlj | Designing the Morphology of Separated Phases in Multicomponent Liquid Mixtures |
| 9:45 am-10:15 am | **Coffee Break** | |
| 10:15 am-11:00 am | Rebecca Schulman | Soft materials animated by molecular programs |
| 11:00 am-11:45 pm | Oleg Gang | Programming nanoscale architectures and transformation |
| 11:45 pm-1:00 pm | **Lunch** | |
| 1:00 pm-2:00 pm | **SCGP Colloquium**<br><br>(Randall Kamien) | A New Classification of Topological Defects in Ordered Material: Applied Measured Foliations |
| 2:15 pm-3:00 pm | Marjolein Dijkstra | Structuring Matter over Multiple Length Scales: Crystals of Crystals of Nanocrystals |
| 3:00 pm-3:45 pm | Miranda Holmes-Cerfon | Do DNA-coated colloids actually roll? The geometry of stochastically rolling particles. |
| 4:00 pm-6:00 pm | **Poster Session/Reception** | |

**Wednesday, May 11**

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|---|---|---|
| 8:45 am-9:15 am | **Breakfast** | |
| 9:15 am-10:00 am | Michael Hagan | Controlling active matter with confinement and light |
| 10:00 am-10:30 am | **Coffee Break** | |
| 10:30 am-11:15 am | Kyle Bishop | Quincke oscillators: Dynamics, synchronization, and assembly of self-oscillating colloids |
| 11:15 am-12:00 pm | Alison Sweeney | Geometry and topology of lipid bilayers in reflectin-protein based squid photonics |
| 12:00 pm-1:30 pm | **Lunch** | |
| 1:30 pm-2:15 pm | Dapeng Max Bi | Shear-driven solidification and nonlinear elasticity in epithelial tissues |
| 2:15 pm-3:00 pm | Mijo Simunovic | Breaking embryonic symmetry in an in vitro model of the human embryo |
| 3:00 pm-3:30 pm | **Tea Time** | |
| 3:30 pm-4:15 pm | Karen E. Kasza | Cell packings and tissue flows in developing embryos |
| 4:15 pm-5:00 pm | Sebastian Streichan | Physics of Living Matter: From Molecule to Embryo |

**Thursday, May 12**

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|---|---|---|
| 8:45 am-9:15 am | **Breakfast** | |
| 9:15 am-10:00 am | David Nelson | Fractional defect charges for liquid crystals on cones |
| 10:00 am-10:30 am | **Coffee Break** | |
| 10:30 am-11:15 am | Randall Kamien | Geometry, Topology, and Symmetry in Dislocation Glide |
| 11:1 5am-12:00 pm | Xiaoming Mao | Geometric frustration, self-assembly, mechanics, and pathways to complexity |
| 12:00 pm-1:30 pm | **Lunch** | |
| 1:30 pm-2:15 pm | Gregory Grason | Understanding and engineering self-limitation in geometrically frustrated assembly |
| 2:15 pm-3:00 pm | Tom Witten | Crescent crease cuts cost of cone |
| 3:00 pm-3:30 pm | **Tea Time** | |
| 3:30 pm-4:15 pm | Seth Fraden | Synthetic Structural Biology: Exploiting viral assembly principles as an anti-viral strategy |
| 6:00 pm | **Banquet** | |

**Friday, May 13,**

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|---|---|---|
| 8:45 am-9:15 am | **Breakfast** | |
| 9:15 am-10:00 am | Francesco Sciortino | From water to colloidal water.... a topological nature of the liquid-liquid transition? |
| 10:00 am-10:30 am | **Coffee Break** | |
| 10:30 am-11:15 am | Sinan Keten | Tailoring molecular topology to control the mechanical properties of polymer-grafted nanoparticle assemblies |
| 11:15 am-12:00 pm | Sanat Kumar | Profound confinement effects in polymer grafted nanoparticle membranes |
| 12:00 pm | **Lunch** | |
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