Polymer Physics

Organizers: Tim Lodge and M. Muthukumar

Sunday, July 7

5:00 - 6:30 pm Meet colleagues at the Oak, located at the base of the gondola, for a drink, register, and subsequent dinner at a nearby restaurant if desired. http://www.oakstelluride.com/

Monday, July 8

8:00		Breakfast at Telluride Intermediate School
8:30	Jay	Can a slip-link theory be coarse grained to a tube?
9:15	Matt	Progress in the hunt for shear banding of entangled polymer solutions
10:00		Break
10:30	Charles (I)	Recent developments in ring polymer dynamics
11:15	David	Connecting whole-chain dynamics to segmental motion in glass-forming polymer melts and thin films: beyond the Rouse model

7:30	Amalie	Structure and self-assembly of mixed brush nanoparticles
8:15	Russ	Towards understanding metastable morphologies in polymer nanocomposites
9:00	Rachel	Bioinspired polymers for understanding the role of monomer sequence and chain shape on self-assembly

Tuesday, July 9

8:00		Breakfast at Telluride Intermediate School
8:30	Karen	Nanostructured ionic aggregates for proton and ion transport
9:15	Tim	Phase behavior of ternary blends containing ions
10:00		Break
10:30	Liangbin	Flow-induced crystallization of polymer: a shortcut of nucleation
11:15	Lynn	Mechanics and flow behavior of solvent-swollen block copolymer micelle crystals

6:30Using Nature's Blueprint to Build a Sustainable Energy Future
Yogesh Surendranath, MITTelluride Conference Center in Mountain Village, with a cash bar starting at 6:00 pm.

Telluride Science Research Conference, July 7 – 11, 2019

Wednesday, July 10

8:00		Breakfast at Telluride Intermediate School
8:30	Zahra	Evidence of a dynamical phase transition in glassy thin films
9:15	Sanat	Phase transition concepts in the thin film glass problem
10:00		Break
10:30	Rod	Measuring the local glass transition in copolymers
11:15	Peter	Puzzles in the Mw dependence of polymer glasses
6:00		TSRC Picnic/BBQ, location TBD

Thursday, July 11

8:00		Breakfast at Telluride Intermediate School
8:30	Muthu	Topologically frustrated new dynamical state of charged macromolecules
9:15	Jiang	Polyelectrolyte molecules under steady and shearing condition
10:00		Break
10:30	Charles (II)	Thermodynamics of coacervates with sequence-defined polyelectrolytes
11:15	Michael	Structure and dynamics of coacervates formed by oppositely charged polyelectrolytes
7:00		Pizza Party at Camel's Garden Hotel, TBD

Friday, July 11

8:00	Breakfast at Telluride Intermediate School (optional)
8:30	Optional group discussion, group hike, etc.

Tim Lodge: 612-802-5748 Muthu: 413-548-6143

TSRC Hosts: Mark Kozak, 970-708-4426, Cindy Fusting: 970-708-5069

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