

Telluride Science Research Conference, June 25 – 30, 2017

Polymer Physics

Organizers: Tim Lodge, M. Muthukumar, Jack Douglas, Karl Freed

Sunday, June 25

5:00 - 6:30 pm Meet colleagues at the New Sheridan Bar (on the main street next to the hotel) for a drink, and subsequent dinner at a nearby restaurant

Monday, June 26

8:00 Breakfast at Telluride Intermediate School

8:30 Zhen-Gang *Electrostatic correlations in polyelectrolyte solutions*

9:20 Svetlana *Nonlinear Growth of Polyelectrolyte Multilayers: Chain Dynamics and Film Structure*

10:10 Break

10:30 Muthu *Polyelectrolyte Gels*

11:20 Ilja TBD

7:30 Karl *Lattice Cluster Theory for Thermodynamics of Thin, Dense, Polymer Films*

8:20 Frank *Ice Nine and Polywater*

9:10 Arun *Polymers in ionic liquids*

Tuesday, June 27

8:00 Breakfast at Telluride Intermediate School

8:30 Jay *Anisotropic thermal conductivity in flowing polymer melts*

9:20 Ken *Theories of Structural Relaxation and Penetrant Diffusion in Polymer Melts and Glasses*

10:10 Break

10:30 Tim *Core block extraction in block copolymer micelles and gels*

11:20 Sanat *Understanding the dielectric breakdown of semicrystalline polymers*

6:00 *"Four billion years of fun in the sun: The photochemical properties of DNA and their role in minimizing UV damage"*
Bern Kohler, Professor of Chemistry, The Ohio State University
Telluride Conference Center in Mountain Village, with a cash bar starting at 5:30 pm.

Wednesday, June 28

8:00 Breakfast at Telluride Intermediate School

8:30 Amalie *Ion Transport in Ion-containing Polymers from MD Simulations*

9:20 Nitash *Transference Numbers in Homopolymer and Block Copolymer Electrolytes*

10:10 Break

10:30 Moon *Self-assembly, molecular interactions, and ion transport in end-functionalized polymers*

11:20 Rachel *Functional Materials from Polymeric Ionic Liquids*

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Wednesday, June 28, continued...

6:00 TSRC Picnic/BBQ, location TBD

Thursday, June 29

8:00 Telluride Intermediate School

8:30 Jianping *Can we observe the single chain behavior at ultimate extension via double network gel?*

9:20 Brad *How Far Can We Push Theories of Defects in Calculating Polymer Network Properties?*

10:10 Break

10:30 Michael *Self-Similar Conformations and Dynamics of Entangled Non-Concatenated Ring Polymers*

11:20 Lisa *Phase Behavior and Dynamics of Model Tapered Diblock Polymers*

7:30 Rob *Failure in model polymer glasses*

8:20 Jack *Insights from Simulation about Interfacial Dynamics in Supported Polymer Films and Nanocomposites*

Friday, June 30

8:00 Breakfast at Telluride Intermediate School (optional)

8:30 Optional group discussion, group hike, etc.

Tim Lodge: 612-802-5748

TSRC Hosts: Mark Kozak, 970-708-4426, Kristen Redd: 970-729-8375

Telluride Intermediate School
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