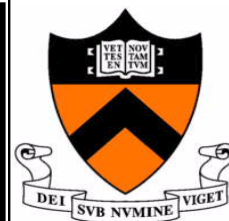


21st Cohen-Register Microsymposium

June 11-12, 2014 ✨ Princeton University

Mamdouha S. Bobst Hall, 83 Prospect Avenue



Wednesday, June 11

Noonish Arrival and Lunch, ground floor of Bobst Hall (83 Prospect Avenue)

1:00 pm **Raleigh Davis** (Register/Chaikin)

Factors Influencing Alignment Quality in Cylinder-Forming Block Copolymer Thin Films

1:30 **Roberta Polak** (Cohen/Rubner)

Sugar-Mediated Disassembly of Mucin/Lectin Multilayers and Their Use as pH-Tolerant, On-Demand Sacrificial Layers

2:00 **Arash Nikoubashman** (Panagiotopoulos/Register)

Characterizing Static and Dynamic Properties of Block Copolymer Melts Using Computer Simulations

2:30 **** BREAK ****

2:45 **Rosanna Lim** (Cohen/Rubner)

Inclusion of Liposomes into Cell Backpacks for Drug Delivery

3:15 **Rick Register** (work of So Youn Kim)

Patterning Square and Rectangular Arrays using Shear-Aligned Block Copolymer Thin Films

3:45 **Bob Cohen** (work of Jon Gilbert)

Depth Profiling of Block Copolymer Films: A Study of Lithium Salt Distribution

4:15 **** BREAK ****

4:30 **Adam Burns** (Register)

Crystallization-Driven Network Formation in Thermoplastic Elastomers with Homogeneous Melts

5:00 **Dayong Chen** (Cohen/McKinley)

Creasing Instability of Hydrogels and Elastomers [with Ryan Hayward, UMass-Amherst]

6:00 Dinner at Despaña Tapas Cafe, 235A Nassau Street (www.despanapinceton.com)

Thursday, June 12

8:15 am Continental Breakfast, ground floor of Bobst Hall (83 Prospect Avenue)

8:45 **Dong-Gyun Kim** (Register)

Organic/Inorganic Hybrid Polymer Electrolytes for All-Solid-State Lithium Batteries
[with Jong-Chan Lee, Seoul Natl. U.]

9:15 **Siddarth Srinivasan** (Cohen/McKinley)

Sustainable Turbulent Drag Reduction in Taylor-Couette Flows Using Superhydrophobic Surfaces

9:45 **Dane Christie** (Priestley/Register)

Liquid Substrate Effects on the Glass Transition Temperature of Nanoscopically Confined Polystyrene Spheres

10:15 **** BREAK ****

10:30 **Hyomin Lee** (Cohen/Rubner)

Zwitter-Wettable Nanostructured Films with Stable Hydrophobicity: Design and Fabrication

11:00 **Will Mulhearn** (Register)

Melt-Miscibility of Polynorbornene Derivatives with Polyethylene

11:30 **Justin Kleingartner** (Cohen/McKinley)

The Role of Surface Chemistry in the Design of Efficient Fog Harvesting Mesh Structures

Noon Lunch and Departure