

## TSRC Workshop: Molecular Engineering of Soft Matter

Organized by Shikha Nangia, Arthi Jayaraman and Sapna Sarupria

	Sunday	Monday	Tuesday	Wednesday	Thursday
TIME	6/16/19	6/17/19	6/18/19	6/19/19	6/20/19
7.45 - 8.20	BREAKFAST	BREAKFAST	BREAKFAST	BREAKFAST	BREAKFAST
8.30 - 9.30	Ryan Hayward	Costantino Creton	Scott Shell	Harm Anton Klok	Informal discussions
9.30 - 10.30	Chris Likos	Hank Ashbaugh	Sapna Sarupria	Yaraslava Yingling	Travel back
10:30-10.55	Break	Break	Break	Break	
11 - 12	Ilja Seipman	Arthi Jayaraman	Shikha Nangia	Rachel Letteri	
Break	Noon - 4.30	Noon - 4.30	Noon - 3.30	Noon - 3.30	
Free time activities	Group Hikes/Personal	Group Hikes/Personal	Personal time	Personal time	
3.30 - 4.30			Susan Daniel	Marc Hillmyer	
4.30 - 5.30	Kate Beers	Julia Ortony	Geeta Mehta	Jian Qin	
5.30 - 6.30	Jan Genzer	Vasudevan Venkatesh	TSRC TOWN TALK	TSRC PICNIC	
7.00 - 9.00		Sponsored Dinner			

NOTES: Breakfast and Coffee Break is provided by TSRC. Lunch on all days and Dinner on 6/16 & 6/18 are not covered by TSRC.

Dinner on 6/17 is sponsored by Solvay

Please plan to speak for 45 min only. We will have 10 mins for questions a

### Sunday June 16th 2019

Ryan Hayward	Stretchable, solid-state, ionic diodes at the interface of ionic liquid elastomers
Christos Likos	Self-organization and rheology of block copolymer star solutions
Ilja Seipmann	Predictive Modeling of Oligomers: From Low-Chi to High-Chi
Kate Beers	Densely-grafted polymers and networks to test the edge of interfacial mechanics and molecular order measurements
Jan Genzer	Escape from grasses: Spontaneous and on-demand degrafting of polymers from surfaces

### Monday June 17th 2019

Cosantino Creton	Quantitative molecular detection of bond scission in soft materials
Hank Ashbaugh	To wet or not to wet supramolecular pockets
Arthi Jayaraman	Hydrogen bonding induced macroscopic structure and thermodynamics in polymer systems
Julia Ortony	Self-assembly of aramid amphiphile nanofibers and their thermally-triggered hydrophathy reversal
Vasudevan Venka	Open problems in drying and film formation in porous media

### Tuesday June 18th 2019

Scott Shell	Inverse design of water-mediated interactions
Sapna Sarupria	Towards computer aided engineering of proteins and protein-surface complexes
Shikha Nangia	Protein crowding in complex lipid environments
Susan Daniel	Cell-free biomanufacturing of therapeutic glycolipids and glycosylated proteins
Geeta Mehta	Heterogenous physiologic models for investigation of chemoresistance, mechanotransduction and precision oncology

### Wednesday June 19th 2019

Harm Anton Klok	Polymers at synthetic and living surfaces
Yara Yingling	Understanding and design of responsive materials using molecular modeling
Rachel Letteri	Engineering Adaptive Biomaterials from Functional Polymers and Peptide Stereocomplexes'
Marc Hillmyer	Harnessing disorder in self-assembled block polymers for functional nanostructured materials
Jian Qin	Modeling the effects of polarity on charge-driven assembly