## **Complex Fluids Design Consortium Annual Meeting**

Friday, February 3, 2017

Materials Research Laboratory, Room 2053 University of California, Santa Barbara

9:00-9:30 am	<i>CFDC: Welcome and update</i> Professor Glenn Fredrickson, Director CFDC, Chemical Engineering and Materials, UCSB
9:30-9:45 am	CFDC software update: PolyFTS Dr. Kris Delaney, MRL, UCSB
9:45-10:15 am	Recent advances in block polymer design and application Professor Chris Bates, Materials and Chemical Engineering, UCSB
10:15-10:45 am	Coffee Break 1
10:45-11:15 am	<i>Dynamics of inhomogeneous polymeric fluids</i> Dr. Doug Tree, MRL, UCSB
11:15-11:30 am	Structural evolution in phase separating ternary polymer solutions Jan Garcia, Chemical Engineering and MRL, UCSB
11:30- 12:00 pm	Progress in fully fluctuating field-theoretic simulations of block polymer melts and polyelectrolyte solutions Dr. Kris Delaney, MRL, UCSB
12:00-1:00 pm	Lunch on MRL 3 <sup>rd</sup> Floor Patio
1:00-1:30 pm	Suppression of thermal fluctuation placement errors in linear arrays of block copolymer cylinders Corinne Carpenter, Chemical Engineering and MRL, UCSB
1:30-2:00 pm	Optimized phase field models: fast and accurate coarse-grained field theory Jimmy Liu, Chemical Engineering and MRL, UCSB

2:00-2:30 pm	Determination of globally stable block copolymer phases using particle swarm optimization Carol Tsai, Chemistry and Biochemistry and MRL, UCSB
2:30-3:00 pm	Inverse design of morphology and properties in block copolymers using particle swarm optimization Dr. Mihir Khadilkar, MRL, UCSB
3:00-3:15 pm	Coffee Break 2
3:15-3:45 pm	Electric field effects in fluctuating polarizable soft media Jonathan Martin, Chemical Engineering and MRL, UCSB
3:45-4:15 pm	Phase separation driven by species polarizability contrast in polymeric systems Dr. Doug Grzetic, MRL, UCSB
4:15-4:45 pm	A two-fluid model for flow-induced demixing in polymer blends Joe Peterson, Chemical Engineering, UCSB
4:45-5:15 pm	Field theoretic simulations of self-coacervation phenomena in block polyampholytes Scott Danielsen, Chemical Engineering and MRL, UCSB
5:15-5:45 pm	Linking polymer entanglements with the viscoelastic mechanics of polymeric materials using topological analysis and computational simulations Dr. Eleni Panagiotou, Mathematics, UCSB
6:00 pm	Adjourn CFDC meeting

CFDC Dinner – 6:30 pm, Flavor of India