Complex Fluids Design Consortium Annual Meeting

Tuesday, January 29, 2019

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

8:30-9:00 am	CFDC: Welcome and update Professor Glenn Fredrickson, Director CFDC, Chemical Engineering and Materials, UCSB
9:00-9:15 am	CFDC software update: PolyFTS Dr. Kris Delaney, MRL, UCSB
9:15-9:45 am	Spectral contour methods for highly accurate and memory efficient polymer SCFT Professor Hector Ceniceros, Mathematics, UCSB
9:45- 10:15 pm	Modeling phase separation dynamics in polymeric fluids Professor Doug Tree, Chemical Engineering, Brigham Young University
10:15-10:30 am	Coffee Break 1
10:30-11:00 am	Arrested mobility effects on the spinodal decomposition of ternary polymer solutions Jan Garcia, Chemical Engineering and MRL, UCSB
11:00-11:30 am	Reactive blending of a symmetric polymer blend Dr. Mukul Tikekar, MRL, UCSB
11:30-12:00 pm	Progress in fully fluctuating field-theoretic simulation methods Dr. Kris Delaney, MRL, UCSB
12:00-1:00 pm	Lunch on MRL 3 rd Floor Patio
1:00-1:30 pm	Correlation effects in the dielectric response of charge-containing polarizable and dipolar fluids Dr. Doug Grzetic, MRL, UCSB

1:30-2:00 pm	Electric field-induced critical point shift in a binary dielectric fluid Jonathan Martin, Chemical Engineering and MRL, UCSB
2:00-2:30 pm	Application of fully-fluctuating field theoretic simulations to study liquid-liquid phase separation in biology Dr. James McCarty, Chemistry & Biochemistry, UCSB
2:30-3:00 pm	Using particle swarm optimization and SCFT to agnostically identify the stable and competitive morphologies of block copolymers Dr. Carol Tsai, Chemistry and Biochemistry and MRL, UCSB
3:00-3:15 pm	Coffee Break 2
3:15-3:45 pm	Architecture and asymmetry in block polymer self-assembly Dr. Joshua Lequieu, MRL, UCSB
3:45-4:15 pm	Integrating particle and field-theoretic simulations: A multiscale approach to complex polymeric solutions Nicholas Sherck, Chemical Engineering, UCSB
4:15-4:45 pm	Developing coarse grained models of charged systems Dr. Kevin Shen, MRL, UCSB
4:45-5:15 pm	Coherent states field theory simulations for supramolecular multiblock copolymers Daniel Vigil, Chemical Engineering and MRL, UCSB
5:15-5:45 pm	Simultaneous transient gel behavior and multivalent ionic mobility in polymeric ionic liquid-ligand gels Seamus Jones, Chemical Engineering and MRL, UCSB
6:00 pm	Adjourn CFDC meeting

CFDC Dinner – 6:30 pm, Flavor of India