Complex Fluids Design Consortium Annual Meeting

Monday, February 1, 2016

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

9:00-9:30 am	CFDC: Welcome and update 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	Multiscale simulation methods for hybrid molecular-continuum problems Professor Scott Shell, Chemical Engineering, UCSB
10:15-10:45 am	Coffee Break 1
10:45-11:15 am	Multi-fluid models of polymeric liquids Dr. Doug Tree, MRL, UCSB
11:15-11:45 am	Block copolymer self-assembly and polymer-mediated colloid interaction Dr. Wei Li, MRL, UCSB
11:45- 12:00 pm	Selective stabilization of diblock copolymer network phases in an applied electric field Jonathan Martin, Chemical Engineering and MRL, UCSB
12:00-1:00 pm	Lunch on MRL 3 rd Floor Patio
1:00-1:30 pm	MD simulations of ion dynamics in ionomer melts Dr. Amalie Frischknecht, Sandia National Laboratories
1:30-2:00 pm	Density functional model for fluctuating polymer solutions: Partial saddle point approximation approach Dr. Yi-Xin Liu, Fudan University and MRL, UCSB

2:00-2:30 pm	Optimized phase field models for faster simulations of directed self-assembly Jimmy Liu, Chemical Engineering and MRL, UCSB
2:30-3:00 pm	Unguided discovery of BCP self-assembly: Challenges and outlook Carol Tsai, Chemistry & Biochemistry and MRL, UCSB
3:00-3:15 pm	Coffee Break 2
3:15-3:45 pm	Coupling of isotropic and directional interactions in patchy particles Dr. Debra Audus, NIST
3:45-4:15 pm	Pressure-velocity coupling in the computational fluid dynamics of polymer solutions Yassine Dhane, Chemical Engineering, UCSB
4:15-4:45 pm	Flow induced demixing in polymer solutions Joe Peterson, Chemical Engineering, UCSB
4:45-5:00 pm	Coffee Break 3
5:00-5:30 pm	Defectivity in multi-VIA DSA systems with chemopatterned substrates Corinne Carpenter, Chemical Engineering and MRL, UCSB
5:30-6:00 pm	Using particle swarm optimization for bulk phase discovery in block copolymer formulations Dr. Mihir Khadilkar, MRL, UCSB
6:00 pm	Adjourn CFDC meeting

CFDC Dinner – 6:30 pm, Flavor of India