

Complex Fluids Design Consortium Annual Meeting

Monday, February 4, 2008

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

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|----------------|---|
| 9:00-9:30 am | <i>CFDC: Welcome and update</i> (Prof. Glenn Fredrickson, Director CFDC, Chemical Engineering and Materials, UCSB) |
| 9:30-10:00 am | <i>Modeling of dynamic mechanical properties of inhomogeneous materials</i> (Prof. Andrei Gusev, Materials Dept., ETH Zurich) |
| 10:00-10:30 am | Coffee Break |
| 10:30-11:00 am | <i>Mesotek - complex fluid simulations in Materials Studio</i> (Dr. Stephen Todd, Accelrys) |
| 11:00-11:30 am | <i>Progress on a force-bias algorithm in hybrid particle/field simulations</i> (Dr. Dominik Duechs, MRL, UCSB) |
| 11:30-12:00 pm | <i>Supramolecular polymers and Van der Waals interactions in mesoscopic models</i> (Dr. Richard Elliott, MRL, UCSB) |
| 12:00-1:00 pm | Lunch |
| 1:00-1:30 pm | <i>Efficient field theoretic simulations of dendrimers and other highly regular polymer architectures</i> (Prof. Eric Cochran, Iowa State University) |
| 1:30-2:00 pm | <i>Free energy calculations in field theoretic simulations</i> (Erin Lennon, MRL, UCSB) |
| 2:00-2:30 pm | <i>Self-assembly on the sphere: a route to functional colloids and semi-flexible polymers</i> (Tanya Chantawansri, MRL, UCSB) |
| 2:30-2:45 pm | <i>A framework for multi-component field-theoretic simulations beyond the mean-field: application to polyelectrolytes</i> (Dr. Dominik Duechs, MRL, UCSB) |
| 2:45-3:15 pm | Coffee Break |

- 3:15-3:45 pm *Design of soft and strong block copolymer elastomers*
(Dr. Folusho Oyerokun, AFRO, and Dr. Nate Lynd, MRL, UCSB)
- 3:45-4:15 pm *Pathways to crystal nucleation and growth* (Andrea Robben
Browning, Chem. Engr., UCSB)
- 4:15-4:30 pm *Extending computational resources: systematic coarse-graining
via numerical renormalization group* (Mike Villet, MRL, UCSB)
- 4:30-5:00 pm *Field-based simulations for block copolymer lithography* (Su-mi
Hur and Won bo Lee, MRL, UCSB)
- 5:00-5:15 pm *Simulations of reversible polymer networks*
(Dr. Robert Hoy, MRL, UCSB)
- 5:15 pm Adjourn CFDC meeting
- 5:15-6:00 pm CFDC Steering Committee Meeting (Steering Committee
Members Only, Rm. 3117D MRL Bldg.)

CFDC Dinner – 7pm TBA