

INTERNATIONAL WORKSHOP ON “COLLOIDAL SYSTEMS, POLYMERS AND LIQUID CRYSTALS”

UNIVERSITY OF KONSTANZ
LECTURE ROOM R712
22.3.-24.3.2007

organized by
M.P. Allen, K. Binder and P. Nielaba

sponsored by SIMBIOMA, MOLSIMU, SFB-513, SFB-TR6

22.3.2007 Thursday pm - Polymers and colloids (14:00 – 17:10)

- 14:00 KURT BINDER (Mainz)**
Interface localization versus capillary condensation in confined polymer-colloid mixtures: Monte Carlo simulations of the AO-model.
- 14:40 MARCUS MÜLLER (Göttingen)**
Single Chain in Mean Field Simulations of inhomogeneous polymer systems
- 15:20 COFFE BREAK**
- 15:50 KURT KREMER (Mainz)**
Adaptive Simulation Resolution of Liquids
- 16:30 ARTUR ERBE (Konstanz) and PETER HENSELER (Konstanz)**
Layer reductions in driven 2d-colloidal systems through microchannels: Experiments and Simulations

23.3.2007 Friday am - Colloids and dynamics (9:00 – 12:50)

- 9:00 KERSTIN FRANZRAHE (Konstanz)**
Two dimensional model colloids in external potentials
- 9:40 SLOBODAN ZUMER (Ljubljana)**
Colloidal structures entangled by nematic disclination lines
- 10:20 COFFEE BREAK**
- 10:50 ANDREA FORTINI (Utrecht)**
Phase separation and dynamical arrest in systems with short-ranged attraction
- 11:30 HARTMUT LÖWEN (Düsseldorf)**
Driven colloidal mixtures and colloidal liquid crystals
- 12:10 DENIS ANDRIENKO (Mainz)**
Charge transport in columnar phases of liquid crystals: a multiscale study

23.3.2007 Friday pm - Liquid crystals (14:20 – 18:10)

- 14:20 MARK WILSON (Durham)**
Computer simulations of liquid crystals: progress towards a fundamental understanding of molecular interactions, the prediction of material properties and the chemical design of new materials
- 15:00 ROBERTO BERARDI (Bologna)**
Computer simulations of field response in biaxial and bent-core nematics
- 15:40 COFFEE BREAK**
- 16:10 TANJA SCHILLING (Mainz)**
News on hard spherocylinders and ellipsoids
- 16:50 MIKE ALLEN (Warwick)**
Simulations of thin platelets
- 17:30 RICHARD VINK (Düsseldorf)**
Liquid crystals in two dimensions: first-order phase transitions and non-universal critical behavior

24.3.2007 Saturday am - Soft Matter and Membranes (9:00 – 12:30)

- 9:00 PETER KEIM (Konstanz)**
Frank's constant in the hexatic phase
- 9:40 DOUG CLEAVER (Sheffield)**
Simulating 3d periodic soft matter using hard particles and other simple models
- 10:20 COFFEE BREAK**
- 10:50 ILPO VATTULAINEN (Tampere)**
Lipid membranes as 2D liquid crystals: Lateral pressure profiles and their coupling to membrane protein activation
- 11:30 VOLKER KNECHT (Potsdam)**
All atom simulations of vesicle fusion
- 12:10 CLOSING REMARKS**