

CODEF - Colloidal Dispersions in External Fields

from: 29 March to 01 April 2004

arrival: Monday, 29.03.2004 until 12:00	
MONDAY, 29.03.2004	
12:00 - 14:00	Lunch
14:00 - 14:15	Löwen: Welcome
Session A1 - Shear fields Chairperson: Briels	
14:15 - 14:55	Pusey: Yielding and flow of colloidal glasses
14:55 - 15:15	Imhof: Three-dimensional real-space analysis of colloidal dispersions under shear flow
15:15 - 15:35	Lettinga: On the non-equilibrium phase behavior of rod-like viruses under shear
15:35 - 16:00	Coffee break
16:00 - 16:40	Cates: Lattice Boltzmann for colloid hydrodynamics
16:40 - 17:20	Hess: Regular and chaotic orientational and rheological behavior of liquid crystals
Session B1 - Electric fields Chairperson: Hansen	
17:20 - 17:40	Dünweg: New simulation approaches for charged colloidal systems
17:40 - 18:00	Nägele: A mode-mode coupling scheme of colloidal electrolyte friction
18:00	Dinner
19:30	Postersession
TUESDAY, 30.03.2004	
08:00	Breakfast
Session E1 - Gravity and thermodynamic forces Chairperson: Hess	
09:00 - 09:40	Hansen: Sedimentation of colloidal dispersions and colloid/polymer mixtures
09:40 - 10:20	Piazza: Thermophoresis in colloidal suspensions
Session B2 - Electric fields Chairperson: Palberg	
10:20 - 10:40	Bartsch: Electrophoresis of fluid and crystalline ordered colloidal suspensions
10:40 - 11:00	Coffee break
11:00 - 11:20	v. Grünberg: Lattice dynamics of two-dimensional colloidal model crystals
Session F1 - Bulk Chairperson: Chaikin	
11:20 - 12:00	Dietrich: Entropic forces
12:00 - 12:40	Tartaglia: Dynamical arrest in dense short-ranged attractive colloids
12:40 - 14:00	Lunch

Session C1 - Laser-optical and magnetic fields		Chairperson: Maret
14:00 - 14:40	Chaikin: Densifying and Jamming Spheres and Ellipsoids	
14:40 - 15:00	Nielaba: Elastic properties, structures and phase transitions in model colloids	
15:00 - 15:20	Stark: Hydrodynamic coupling and two-point correlations of rotating spheres	
15:20 - 15:40	Coffee break	
Session D1 - Confining geometries		Chairperson: Dietrich
15:40 - 16:20	Evans: Wetting of a colloidal particle	
16:20 - 17:00	Grier: New insights into confinement-induced like-charge colloidal attractions and other colloidal anomalies	
17:00 - 17:10	Break	
17:10 - 17:50	Herminghaus: Critical phenomena in wet granular matter	
17:50 - 18:10	Palberg: Shear-induced precursors and subsequent crystal growth in double wall confined colloidal suspensions	
18:10 - 18.30	Philipse: Sedimentation-diffusion equilibrium of charged colloids: evidence for a macroscopic electric field	
18:30	Dinner	
19:30	Postersession	
WEDNESDAY, 31.03.2004		
08:00	Breakfast	
Session E2 - Gravity and thermodynamic forces		Chairperson: N.N.
09:00 - 09:40	Dogic: Kinetics of the isotropic-smectic phase transition	
09:40 -10:20	Richtering: Temperature- sensitive microgels in internal and external fields	
Session A2 - Shear fields		Chairperson: Cates
10:20 -10:40	Horbach: fluid-fluid interfaces in a model colloid-polymer mixture: application of a grand canonical Monte Carlo method	
10:40 -11:00	Coffee break	
11:00 - 11:20	Winkler: Rodlike colloids in shear flow: a multi-particle-collision dynamics study	
11:20 - 12:00	Bossis: Effect of dipolar interactions on the structure and rheology of colloidal suspensions	
Session D2 - Confining geometries		Chairperson: Evans
12:00 - 12:20	Dijkstra: Entropic wetting, many-body induced layering, and capillary condensation and freezing of colloid-polymer mixtures	
12:20 - 12:40	Schmidt: Colloid-polymer mixtures in random confinement	
12:40 - 14:00	Lunch	
Session A3 - Shear fields		Chairperson: Dhont
14:00 - 14:40	Briels: Simulations of amphiphilic worms, bi-layers and vesicles in equilibrium and in shear flow.	
14:40 - 15:00	Rother: PEP-PEO block copolymer micelles: Equilibrium and non-equilibrium structures determined by SANS	
15:00 - 22:00	Excursion and Conference dinner	

THURSDAY, 01.04.2004

08:00

Breakfast

Session C - Laser-optical and magnetic fields

Chairperson: Reatto

09:00 - 09:20

Gasser:
Structure and phase transitions in a two-dimensional colloidal suspension in external fields

09:20 - 09:40

Likos:
Superparamagnetic colloids in external magnetic fields

09:40 - 10:00

Bechinger:
Stochastic resonance in colloidal systems

Session F2 - Bulk

Chairperson: Richtering

10:00 - 10:40

Segre:
Glass-like kinetic arrest at the colloidal gelation transition

10:40 - 11:00

Coffee break

11:00 - 11:40

Poulin:
Colloidal ordering in liquid crystals

11:40 - 12:20

Reatto:
Fluctuations and self-organization phenomena in systems with competing attractive and repulsive forces

12:20 - 12:30

Klein
Closing remarks

12:30 - 14:00

Lunch