

**Black Forest Focus on Computational Methods in Soft Matter
FRIAS, School of Soft Matter Research**

Freiburg, July 8-11, 2009

Tuesday, July 7: Registration and Dinner

18:00 – 20:00	FRIAS Lounge	Registration and Dinner
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Wednesday, July 8:

9:00 – 9:20	School Directors	Opening
9:20 – 10:00	Kurt Binder (U Mainz)	"Unconventional" phase transitions of single polymer chains
10:00 – 10:40	Hans-Christian Öttinger (ETH Zürich)	Thermodynamically guided simulations of polymers
10:40 – 11:10	FRIAS Lounge	Coffee Break
11:10 – 11:50	Hartmut Löwen (U Düsseldorf)	Computational methods for colloidal dispersions
12:00 – 13:00	FRIAS Lounge	Lunch
14:30 – 15:10	Rudolph Friedrich (U Münster)	Windows to Complexity: Disentangling trends and noise in complex systems
15:10 – 15:50	Michael Bestehorn (BTU Cottbus)	Macroscopic surface structures of thin liquid films
15:50 – 16:20	Coffee Break	
16:20 – 17:00	Burkhard Dünweg (MPI Mainz)	Lattice Boltzmann simulations of soft matter systems
17:00 – 17:30	Simone Melchionna (Harvard U)	Multiscale methods for mesoscopic flows with application to hemodynamics
18:00 – 20:00	FRIAS Lounge	Dinner

Thursday, July 9:

9:00 – 9:40	Gerhard Stock (U Frankfurt)	Quantum-classical description of biomolecular energy flow
9:40 – 10:20	Oliver Kühn (U Rostock)	Correlated Vibrational Dynamics of DNA Base Pairs
10:20 – 10:50	FRIAS Lounge	Coffee Break
10:50 – 11:30	Michael Thoss (U Erlangen-Nürnberg)	Dynamics of electron transfer processes in molecular systems at surfaces
11:30 – 11:50	Peter Nalbach (FRIAS, U Freiburg)	Entanglement dynamics of biomolecular excitons
12:00 – 13:00	FRIAS Lounge	Lunch
13:00 – ca. 23:00	Excursion to Haigerloch	Conference Dinner

Friday, July 10:

9:00 – 9:40	Uzi Landman (Georgia Tech)	DNA damage, lipid membranes, and soft junctions
9:40 – 10:20	Philipp Maaß (U Osnabrück)	Plastic Flow of Amorphous Solids: Theory and Computer Simulation
10:20 – 10:50	FRIAS Lounge	Coffee Break
10:50 – 11:30	Reinhold Egger (U Düsseldorf)	Iterative path integral simulation of nanoscale quantum transport
11:30 – 11:50	Lothar Mühlbacher (U Freiburg)	Quantum Monte Carlo simulations of nonequilibrium transport
12:00 – 13:00	FRIAS Lounge	Lunch
14:30 – 15:10	Peter Jung (Ohio U)	On the Physics and Physiology of Intracellular Calcium Signaling
15:10 – 15:30	Oliver Mülken (U Freiburg)	Quantum mechanical aspects of light-harvesting processes
15:30 – 16:00	Coffee Break	
16:00 – 16:40	Marcus Müller, (U Göttingen)	Computer simulation of structure formation in thin films of diblock copolymers
16:40 – 17:00	Stefan Raub (U Düsseldorf)	Accelerating Scientific Simulations using GPGPUs – exemplified on ISPI
18:00 – 20:00	FRIAS Lounge	Dinner

Saturday, July 11:

9:00 – 9:40	Michael Moseler (IWM, U Freiburg)	Multiscale simulations of transport in nanoscale jets, films, pumps and catalysts: combining density functional theory, classical molecular dynamics, mesoparticles and stochastic continuum models
9:40 – 10:00	Marco Schiro (SISSA Trieste)	Real-time Diagrammatic Monte Carlo for non-equilibrium quantum transport
10:00 – 10:30	FRIAS Lounge	Coffee Break
10:30 – 11:10	Eric Vanden-Eijnden (NYU)	A general strategy for the design of seamless multiscale methods
11:10 – 11:50	Sauro Succi (CNR-ISC)	Mesosopic Lattice Boltzmann models of soft flowing systems
11:50 – 12:00	The organizers	Closing remarks
12:00 – 13:00	FRIAS Lounge	Lunch



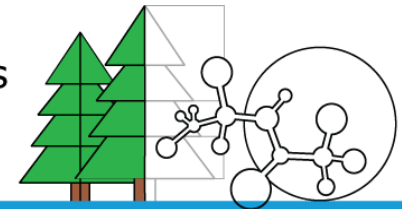
FRIAS

FREIBURG INSTITUTE FOR ADVANCED STUDIES
ALBERT-LUDWIGS-UNIVERSITÄT FREIBURG

Program Synopsis

Black Forest Focus on Soft Matter

Freiburg, July 8-11, 2009



Tues, July 7		Wed, July 8		Thur, July 9	Fri, July 10		Sat, July 11
	9:00 – 9:20	Opening	9:00 – 9:40	Stock	Landman	9:00 – 9:40	Moseler
	9:20 – 10:00	Binder	9:40 -10:20	Kühn	Maaß	9:40 – 10:00	Schiro
	10:00 – 10:40	Öttinger	10:20 – 10:50	Coffee break		10:00 – 10:30	Coffee break
	10:40 – 11:10	Coffee break	10:50 -11:30	Thoss	Egger	10:30 – 11:10	Vanden –Eijnden
	11:10 – 11:50	Löwen	11:30 – 11:50	Nalbach	Mühlbacher	11:10 – 11:50	Succi
	12:00 – 13:00	Lunch FRIAS Lounge	12:00 – 13:00	Lunch FRIAS Lounge		11:50 – 12:00	Closing remarks
	14:30 – 15:10	Friedrich	14:30 – 15:10	Excursion to Haigerloch and conference dinner	Jung	12:00 – 13:00	Lunch FRIAS Lounge
	15:10 – 15:50	Bestehorn	15:15 – 15:30		Mülken		
	15:50 – 16:20	Coffee break	15:30 – 16:00		Coffee break		
	16:20 – 17:00	Dünweg	16:00 – 16:40		Müller		
	17:00 – 17:30	Melchionna	16:40 – 17:00		Raub		
	18:00 – 20:00	Dinner FRIAS Lounge	18:00 – 20:00		Dinner FRIAS Lounge		
Registration & Dinner FRIAS Lounge	18:00 – 20:00	Dinner FRIAS Lounge	18:00 – 20:00				