

# Jülich Soft Matter Days 2009

10 - 13 November 2009

Gustav-Stresemann-Institut, Bonn, Germany

## Preliminary Program Jülich

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| <b>Tuesday, November 10</b>   |   |
| 18.00 - 21.00 h               | Registration/Welcome Buffet   |
| <b>Wednesday, November 11</b> |   |
| 8.00 h - 8:50 h               | Registration ( <i>continued</i> )   |
|                               | <b>Session : Biosystems I</b>   |
| 9.00 h                        | S. Safran (Weizmann Institute, Rehovot, Israel)<br><a href="#">Stress response and mechanics of biological cells</a>  |
| 9.30 h                        | P. Nassoy (Institut Curie, Paris, France)<br><a href="#">Probing the rheology of the cellular interface with membrane nanotubes</a>   |
| 10.00 h                       | R. Winkler (Forschungszentrum Jülich, Germany)<br><a href="#">Polyelectrolyte electrophoreses: A mesoscale hydrodynamics simulation study</a>   |
| 10.30 h                       | T. Yamamoto (Weizmann Institute, Rehovot, Israel)<br><a href="#">Hybrid lipids as a biological surfactant</a>   |
| 10.50 h                       | Coffee/Tea Break  |
|                               | <b>Session : Colloids I</b>   |
| 11.20 h                       | A. Turberfield (University of Oxford, United Kingdom)<br><a href="#">DNA nanostructures and molecular machinery</a>   |
| 11.50 h                       | S. Zumer (University of Ljubljana, Slovenia)<br><a href="#">Colloidal superstructures in liquid crystals</a>  |
| 12.20 h                       | K. Kang (Forschungszentrum Jülich, Germany)<br><a href="#">Responsive double-layer polarization and phase/state transitions of charged fibrous viruses (fd) in external electric fields</a> |
| 12.50 h                       | A. Denton (North Dakota University, Fargo, USA)<br><a href="#">Poisson-Boltzmann theory of charged colloids: Limits of the cell model for salty suspensions</a>                             |
| 13.10 h                       | Lunch   |
|                               | <b>Session : Polymers I</b>   |
| 14.30 h                       | M. Doi (University of Tokyo, Japan)<br><a href="#">Modeling the drying process of a droplet of polymer solution on a substrate</a>  |
| 15.00 h                       | D. Vlassopoulos (IESL-Forth, University of Crete, Heraklion, Greece)<br><a href="#">Stress relaxation in entangled branched polymers</a>  |

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| 15.30 h | H. Endo (University of Tokyo, Japan)<br><a href="#">Structure and dynamics of polyrotaxane studied by contrast variation neutron scattering</a>                      |
| 16.00 h | M. Zamponi (Oak Ridge National Laboratory, USA)<br><a href="#">Topological confinement in branched polymer melts</a>   |
| 16:30 h | D. Del Biondo (University Claude Bernard Lyon, Villeurbanne, France)<br><a href="#">Linear and non-linear rheology of entangled polymer melts: A slip-link model</a> |
| 16:50 h | Poster Session I & Coffee/Tea Break  |
| 19.00 h | Dinner   |

## Thursday, November 12

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|         | <b>Session : Self Assembly</b>  |
| 8.30 h  | S. Egelhaaf (Heinrich-Heine-Universität Düsseldorf, Germany)<br><a href="#">Dissolution of amphiphiles</a>  |
| 9.00 h  | T. Hashimoto (Kyoto University, Japan)<br><a href="#">Shear-induced self-assembly of semidilute polymer solutions into shish-kebab superstructures</a>                            |
| 9.30 h  | E. Mendes (Delft University, The Netherlands)<br><a href="#">Hardening of polymer gels in the presence of magnetic fields</a>   |
| 9:50 h  | M. Gradzielski (Technische Universität Berlin, Germany)<br><a href="#">Characterisation, chemical modification, and stabilisation of nanoemulsions produced by the PIC method</a> |
| 10.10 h | Coffee/Tea Break  |
|         | <b>Session : Colloids II</b>  |
| 11.00 h | P. Leiderer / A. Erbe (Universität Konstanz, Germany)<br><a href="#">Colloids: Mesoscopic model systems of matter on a nano scale</a>   |
| 11.30 h | P. van der Schoot (Eindhoven University, The Netherlands)<br><a href="#">Isotropic-nematic interfaces: Surface tension and anchoring versus bulk elasticity</a>                   |
| 12.00 h | U. Steiner (University of Cambridge, United Kingdom)<br><a href="#">Non-equilibrium polymer chain conformations in polymer films</a>  |
| 12.30 h | H. van den Ende (University of Twente, The Netherlands)<br><a href="#">Glass transition and aging in dense suspensions of thermosensitive microgel particles</a>                  |
| 13:00 h | T. Vissers (Utrecht University, The Netherlands)<br><a href="#">Oppositely charged colloids near- and out-of-equilibrium</a>  |
| 13.20 h | Lunch   |
| 14.30 h | Poster session II & Coffee/Tea Break  |
|         | <b>Session : Biosystems II</b>  |
| 16.30 h | R. Goldstein (University of Cambridge, United Kingdom)<br><a href="#">Synchronization of Eukaryotic Flagella</a>  |

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| 17.00 h | K. Kruse (Universität des Saarlandes, Germany)<br><a href="#">Self-organization of active polar gels and cell motility</a>   |
| 17.30 h | H. Noguchi (University of Tokyo, Japan)<br><a href="#">Dynamics of red blood cells in steady and oscillatory shear flows</a>   |
| 17.50 h | S. Ghosh (Universität Göttingen, Germany)<br><a href="#">Interaction of synaptic vesicles with lipid monolayers: A structural investigation by X-ray reflectivity and GIXD</a> |
| 18.10 h | Y. Sun (Institut Charles Sadron, Strasbourg, France)<br><a href="#">Double end-grafted DNA's as force sensors for bio-adhesion spreading</a>                                   |
| 19.30 h | Conference Dinner  |

## Friday, November 13

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|         | <b>Session : Polymers II</b>   |
| 8.30 h  | D. Theodorou (University of Athens, Greece)<br><a href="#">Meeting the challenge of long time scales in molecular simulations of polymers</a>  |
| 9.00 h  | J. Colmenero (Universidad del Pais Vasco, San Sebastián, Spain)<br><a href="#">Dynamics of asymmetric polymer blends</a>   |
| 9.30 h  | E. Grelet (CNRS-Université Bordeaux, France)<br><a href="#">Role of chirality in the self-organization of colloidal rods</a>   |
| 10:00 h | L. Harnau (Universität Stuttgart, Germany)<br><a href="#">Selfdiffusion, collective diffusion, and viscoelastic relaxation in semidilute entangled polymer solution</a>                    |
| 10.20 h | Coffee/Tea Break   |
|         | <b>Session : Slow Dynamics</b>   |
| 11.00 h | K. Schweizer (University of Illinois, USA)<br><a href="#">Activated dynamics in glassy suspensions and fluids: From hard and soft spheres to complex objects</a>                           |
| 11.30 h | U. Seifert (Universität Stuttgart, Germany)<br><a href="#">Stochastic thermodynamics of driven soft matter</a>   |
| 12.00 h | J. Brader (Universität Konstanz, Germany)<br><a href="#">Glass rheology: Constitutive relations from mode coupling theory</a>  |
| 12.30 h | W. Pyckhout-Hintzen (Forschungszentrum Jülich, Germany)<br><a href="#">Molecular rheology and small angle neutron scattering on branched polymers in the non-linear deformation regime</a> |
| 12.50 h | K. Harth (Universität Magdeburg, Germany)<br><a href="#">Flow dynamics in anisotropic quasi two-dimensional liquids</a>  |
| 13.10 h | <b>Closing</b>   |
| 13.20 h | Lunch  |
| 14.30 h | <b>Departure</b>   |