

## Program

### Sunday, April 17

- 17:00** Arrival  
Start of registration
- 19:30** *Supper/Get-together*  
Discussions

### Monday, April 18

- 8:15** *Breakfast*
- 9:00** Opening
- 9:15** **Christopher Barner-Kowollik** Photochemical macromolecular material design  
Karlsruhe, Germany
- 9:45** **Volkmar Stenzel** Self-repairing surfaces via supramolecular interactions -  
Bremen, Germany a realistic perspective?
- 10:15** *Break*
- 10:45** **Andrij Pich** Functional microgels as building blocks for interactive materials  
Aachen, Germany
- 11:15** **Sjoerd Postma** Enzymatic reaction networks controlling metamorphosis and  
Nijmegen, The Netherlands mechanical properties of hydrogels
- 11:45** **Lukas Arens** Desalination of salt water via polyelectrolyte hydrogels and  
Karlsruhe, Germany osmotic motors
- 12:15** *Lunch*
- 13:15** **Sergiy Minko** Remote control of soft stimuli-responsive materials  
Athens, USA
- 13:45** **Igor Luzinov** Operational nanoscale polymer layers  
Clemson, USA
- 14:15** **Marcus Müller** Structure formation in multicomponent polymer systems:  
Göttingen, Germany A computer simulation study
- 14:45** *Break*
- 15:15** **Oleg Borisov** Responsive brushes: The impact of polymer architecture  
Pau, France
- 15:45** **Karsten Hinrichs** Correlation of IR spectra with thin-film structure at solid water  
Berlin, Germany interfaces
- 16:15** **Alexander Revzin** Microsystems for cultivation and analysis of cells  
Davis, USA
- 16:45** **Martina Stenzel** Design of functional micelles for enhanced cellular uptake and  
Sydney, Australia their movement in cancer spheroids
- 17:15** *Break*
- 17:30** Poster Discussion
- 18:30** *Supper*

**Tuesday, April 19****8:15** *Breakfast***09:00 Peter Fratzl** Structure and mechanical response of natural interactive and adaptive materials  
Potsdam, Germany**09:30 Jörg Lahann** Stimuli-responsive polymer materials enabled by compartmentalization  
Ann Arbor, USA**10:00 Aranzazu del Campo** Light-tuning morphology and composition in biomaterials and the consequences for embedded cells  
Saarbrücken, Germany**10:30** *Break***11:00 Leonid Ionov** Programmable materials from shape-changing polymers  
Athens, USA**11:30 Rudolf Zentel** LC-elastomers as responsive and interactive materials  
Mainz, Germany**12:00 Marlen Kamperman** Silk-inspired protein polymers  
Wageningen, The Netherlands**12:30** *Lunch***13:30 Martin Möller** Self-assembled silica hybrid materials - Water based chemical transformation for hierarchical structure formation from silicasomes to bicontinuous membranes  
Aachen, Germany**14:00 Molly Stevens** New polymer based approaches for biosensing and regenerative medicine  
London, UK**14:30 Georg Oenbrink** Polymeric drug release systems  
Essen, Germany**15:00** *Break***15:30 Edmondo Benetti** Designed polymer assemblies at interfaces: Imitation of nature and synthetic improvisation  
Zürich, Switzerland**16:00 Stefan Schmidt** Probing specific surface interactions of ligand functionalized hydrogels  
Düsseldorf, Germany**17:15** *Sightseeing walk***19:00** *Dinner* *Historical Restaurant Vincenz Richter***Wednesday, April 20****8:15** *Breakfast***09:00 Elena Kramarenko** Hysteresis of the viscoelastic properties and the normal force in magnetorheological elastomers  
Moscow, Russia**09:30 Katja Loos** From metallic gyroid structures to piezoelectric nanoporous networks  
Groningen, The Netherlands**10:00 Joris Sprakel** Mechanochromic chains as molecular force sensors  
Wageningen, The Netherlands**10:30** *Break***11:00 Andreas Dahlin** Macromolecular gates: Polymer brushes on nanopores  
Göteborg, Sweden**11:30 Matthias Pauly** Oriented self-assembled thin films of anisotropic nanoparticles for (chiral) plasmonics  
Strasbourg, France**12:00** Concluding remarks**12:20** *Lunch*