Polymer Materials in the Transition from Responsiveness to Interactivity and Adaptivity April 17 to 20, 2016

## 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 Karlsruhe, Germany	Photochemical macromolecular material design
9:45	Volkmar Stenzel Bremen , Germany	Self-repairing surfaces via supramolecular interactions - a realistic perspective?
10:15	Break	
10:45	<b>Andrij Pich</b> Aachen, Germany	Functional microgels as building blocks for interactive materials
11:15	Sjoerd Postma Nijmegen, The Netherlands	Enzymatic reaction networks controlling metamorphosis and mechanical properties of hydrogels
11:45	<b>Lukas Arens</b> Karlsruhe, Germany	Desalination of salt water via polyelectrolyte hydrogels and osmotic motors
12:15	Lunch	
13:15	<b>Sergiy Minko</b> Athens, USA	Remote control of soft stimuli-responsive materials
13:45	<b>Igor Luzinov</b> Clemson, USA	Operational nanoscale polymer layers
14:15	Marcus Müller Göttingen, Germany	Structure formation in multicomponent polymer systems: A computer simulation study
14:45	Break	
15:15	<b>Oleg Borisov</b> Pau, France	Responsive brushes: Ihe impact of polymer architecture
15:45	Karsten Hinrichs Berlin, Germany	Correlation of IR spectra with thin-film structure at solid water interfaces
16:15	<b>Alexander Revzin</b> Davis, USA	Microsystems for cultivation and analysis of cells
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	
19:00	Supper	

## Tuesday, April 19

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