

## Oral Presentations – IRTG 1524 Annual Meeting 2015

Thursday		
Thomas Weikl	Faculty	Interactions of membranes with nanoparticles and proteins
Marek Sokolowski	Student/Gradzielski	Synthesis of polymer coated silica nanoparticles
Melissa Pasquinelli	Faculty	Molecular design of shape memory polymer fibers that are thermally responsive
Rohan Patil	Student/Genzer	Investigations into the "degrafting" of polymer brushes from solid impenetrable surfaces: effect of grafting density and patterning applications
Reinhard Lipowsky	Faculty	Engulfment of nanoparticles by biomimetic membranes
Eleanor Ewins	Student/Dimova	Particle-membrane interactions
Ardeshir Goliaei	Student/Berkowitz	Interaction of poloxamers with lipid bilayers: results from coarse-grained simulations
Marius Rutkevičius	Post Doc/Velev	Pickering foam and emulsion stabilization with particles from insoluble plant proteins
Richard Spontak	Faculty	Solvent-regulated (re)structuring of midblock-sulfonated block ionomers
Justin Ryan	Student/Spontak	Thermodynamic interactions and phase behavior in multicomponent polymer systems
Hans Riegler	Faculty	Nucleation and growth of bubbles from individual active sites
José Angel Dangel Flores	Student/Riegler	Nanoscale Structure of Block Copolymer Aggregates in Molecularly Thin Films
Stefan Zauscher	Faculty	Biomolecular synthesis of ssDNA and its interactions in solution and with surfaces sDNA
Matthias Ballauff	Faculty	Competitive adsorption of proteins to spherical polyelectrolyte brushes
Phanindhar Shivapooja	Student/Lopez	UV interferometric lithography for generation of model nanopatterned SAMs and polymer brushes
Rong An	Post Doc/Gubbins	The role of adsorbate (liquid & polymer)-substrate interaction strength in adsorbate films on solid substrates: friction force and the glass transition
Friday		
Keith Gubbins	Faculty	Confinement-induced high pressure phases in nanopores. Can the pressure be in the megabar range?
Levan Tsereteli	Student/Grafmüller	Coarse-grained modeling of natural polysaccharides
Lin Fu	Student/Charbonneau	Packing structures of hard spheres in a cylinder
Dikran Kesal	Student/Klitzing	Uptake and distribution of thiol-capped gold nanoparticles in strong polyelectrolyte brushes
Sabine Klapp	Faculty	Collective dynamics of driven and active dipolar colloids in two dimensions
Stefanie Cattes	Student/Schoen	Density functional theory of anisometric fluids in anisotropic external fields
Yuan Zhuang	Student/Charbonneau	Phase behavior of a microscopic microphase forming model
Jana Staffa	Student/Hildebrandt	Spectroelectrochemical determination of electric fields at biomimetic interfaces
Gabriel Lopez	Faculty	Self assembly of colloids and disordered proteins
Bhuvnesh Bharti	Post Doc/Velev	Capillary bridging at nano and microscale: a pathway towards supracolloidal assembly
Raffaele Tavarone	Student/Stark	Kinetic Monte Carlo simulation for light-switchable molecules on surfaces
Sergej Püschel-Schlotthauer	Student/Schoen	Colloidal self-assembly in ordered liquid-crystalline phases
Jürgen Rabe	Faculty	Self-Assembled molecular nanostructures in a soft slit-pore of graphene and mica
David Rutkowski	Student/Hall	Computational investigation of multipolar colloidal particles
Yiliang Lin	Student/Dickey	Handwritten, soft circuit boards and antennas using liquid metal nanoparticles