

Monday, October 10

8:00 Registration

9:00 From self-assembly to supramolecular polymers: Co-polymerization and structure factors – **Gokul Govind**

9:20 Formation of supramolecular hydrogel systems by assembly of polymer bottlebrushes – **Sebastian Städter**

9:40 Investigating the influence of structural variation on the assembly of benzenetrispeptide based supramolecular polymer bottlebrushes in water – **Hans Felix Ulrich**

10:00 Supraparticles: Aggregation of colloids in evaporating dispersion drops – **Melis Yetkin**

10:20 *Coffee Break – 20 min.*

10:40 Core-shell interfacial interpenetration control forms microgels with switchable elasticity – **Torsten Linder**

11:00 Thermotropic superlattices of zwitterionic liquid crystals – **Lotta Gustavsson**

11:20 Polydispersity in Curved Polymer Brushed in the Strong-Stretching Limit – **Marios Giannakou**

11:40 Polymer Brush/Gold Nanoparticle Composite Materials: Controlling the structure of components and composite with ion-specific effects – **Philipp Ritzert**

12:00 *Lunch Break*

13:30 NaCl interactions with cellulose I β crystal surfaces and effect on cellulose hydration: a molecular dynamics study – **Zhennan Kou**

13:50 Narrow Gap Flow Electrolysis Cells: Atomistic Computer Simulation of Electric Field Effects on Water/Organic Mixtures – **Anastasios Sourpis**

14:10 Get into Flow: Optimization Strategies for the Anodic Phenol-Phenol Cross-Coupling Reaction in Flow and Batch Electrolysis – **Maximilian Hielscher**

14:30 *Coffee Break – 20 min.*

14:50 Molecular Dynamics Simulation of Free Chain Diffusion into a Regular Network – **Jude Ann Vishnu**

15:10 Supramolecular Hydrogels Based on Host-Guest-Interactions for 3D-Bioprinting – **Yuqing Wang**

15:30 Chemical Fuels for exquisite control of Self-sorted and Co-assembled Hydrogels – **Álvaro López-Acosta**

15:50 Cloaking Transition of Droplets on Lubricated Brushes – **Rodrique Badr**

16:10 End

Tuesday, October 11

8:00 Registration & Poster Set Up

9:00 Putting the Squeeze on Phase Separation – **Eric Dufresne** – INVITED

9:40 Nanomechanical crowding at the interface between RNA and soft surfaces – **Horacio Guzmán** – CONTRIBUTED

10:00 *Coffee Break – 20 min.*

10:20 Phase Separation in Wetting Ridges of Sliding Drops on Soft and Swollen Surfaces – **Lukas Hauer** – CONTRIBUTED

10:40 Controlling self-assembly by chemical fuels and light – **Thomas Hermans** – INVITED

11:20 *Coffee Break – 20 min.*

11:40 Metabolic DNA Systems Inspired from Life: Protocells and Systems with Lifecycles – **Andreas Walther** – INVITED

12:20 *Lunch Break*

13:40 Evaporation-induced confinement assembly of functional terpolymer microparticles – **Elias Zirdehi** – CONTRIBUTED

14:00 Data-driven identification of glass transition temperature for polymer melts – **Atreyee Banerjee** – CONTRIBUTED

14:20 Degrafting of polymer assemblies from silica surfaces: Nuisance or opportunity? – **Jan Genzer** – INVITED

15:00 *Coffee Break – 30 min.*

15:30 Optimization and Understanding of Protein Condensates with Machine Learning – **Michael Webb** – INVITED

16:10 End of Session

16:30 Poster Session & Refreshments

Wednesday, October 12

9:00 Mechanically programmable DNA-crosslinked hydrogels as dynamic matrices for advanced cell and organoid culture– **Elisha Krieg** – INVITED

9:40 Stimuli Responsive Hydrogel Actuators for Microfluidic Applications – **Tobias Spratte** – CONTRIBUTED

10:00 *Coffee Break – 20 min.*

10:20 Computational design of self-assembling polymeric coatings – **Kourosh Hasheminejad** – CONTRIBUTED

10:40 Polymer Cubosomes – **Andre Gröschel** – INVITED

11:20 *Coffee Break – 20 min.*

11:40 Photo-induced motion in nanostructured soft materials – **Ghislaine Vantomme** – INVITED

12:20 *Lunch Break*

13:40 Mechanically aligned liquid crystal networks through a two-step Diels-Alder approach – **Friedrich Stricker** – CONTRIBUTED

14:00 Effects of spatially-varying substrate anchoring on instabilities and dewetting of thin nematic liquid crystal films – **Lou Kondic** – CONTRIBUTED

14:20 Controlling the bulk from the surface: chiral liquid crystalline assembly and pattern formation – **Lisa Tran** – INVITED

15:00 *Coffee Break – 30 min.*

15:30 Surface Grafted Poly(Ionic Liquid) That Lubricates in Both Non-Polar and Polar Solvents – **Zhenyu Jason Zhang** – CONTRIBUTED

15:50 Fundamentals and Applications of Polymer Brushes in Air – **Guido Ritsema van Eck** – INVITED

16:30 End of Session

17:15 Social Event – Departure by bus to Schloss Vollrads

Thursday, October 13

- 9:00 The Martini Model in Materials Science – **Siewert-J. Marrink** – INVITED
- 9:40 Dynamic hydrogels for controlling interactions with living systems – **Christine Selhuber-Unkel** – INVITED

10:20 *Coffee Break – 30 min.*

- 10:50 Axial Organic Heterostructures via Sequence Controlled Supramolecular Block Co-Polymerization – **Aritra Sarkar** – CONTRIBUTED
- 11:10 Coupling 3D ionic transport to surface-charge: from electrokinetics to circuits of ionic memristors – **René van Roij** – INVITED

11:50 *Lunch Break*

- 13:30 Dielectric response with short-ranged electrostatics – **Stephen Cox** – INVITED
- 14:10 From integrative atomic-resolution ensembles of disordered proteins to simulations of tau biomolecular condensates – **Lukas Stelzl** – CONTRIBUTED
- 14:30 Sequence dependent phase separation and aggregation of macromolecules: What can we learn from simulations and machine learning? – **Antonia Statt** – INVITED

15:10 End of Workshop & Refreshments