

IRTG SoMaS Discussion Meeting -

Soft Matter Science in the Upper Rhine Valley: Research for the Future

Wednesday, May 8

13:30 – 14:00	Arrival, welcome coffee
14:00 – 14:15	Günter Reiter & Jörg Baschnagel: Opening remarks
14:15 – 15:15	Opening Lecture by Murugappan Muthukumar: <i>Topological Effects on Dynamics of Charged Systems</i>

Session A: Soft matter interfaces: From membranes to tribology

Chairs: Maryam Bahrami & Tobias Ensslen

15:15 – 15:35	Monasadat Talarimoghari: <i>Recognition of synthetic polymers by biological nanopores</i>
15:35 – 15:55	Tobias Ensslen: <i>Mechanistic principles of high-resolution discrimination of polymers with membrane protein pores</i>
15:55 – 16:20	Coffee
16:20 – 16:40	Peter Fritz Müller: <i>Liposomal delivery of bacteriophages to target intracellular bacterial pathogens</i>
16:40 – 17:00	Taras Sych: <i>The membrane ordered domains dissolution by the bacterium <i>P. aeruginosa</i></i>
17:00 – 18:00	Keynote lecture by Meni Wanunu: <i>Nanotechnology for probing the dynamics and sequence of biomolecules</i>
18:00 – 19:00	Time for discussion
19:00	Dinner

Thursday, May 9

Session A continued: Soft matter interfaces: From membranes to tribology

Chairs: Maryam Bahrami & Tobias Ensslen

08:30 – 09:30	Keynote lecture by Christopher K. Ober: <i>A Macromolecular Approach to Anti-fouling, Fouling Resistant Surfaces</i>
09:30 – 09:50	Jonas Kost: <i>Novel low temperature crosslinkers for C,H insertion crosslinking (CHic)</i>
09:50 – 10:10	Maryam Bahrami: <i>Confinement controlled lubrication of surface-attached hydrogels</i>
10:10 – 10:40	Coffee

Session B: From design to multifunctional materials and devices

Chairs: Viktoriia Untilova & Alexander Kozur

10:40 – 11:40	Keynote lecture by Nicolas Giuseppone : Triarylamine-Based Supramolecular Polymers: Structures, Dynamics, and Functions
11:40 – 12:00	Melodie Galerne : Long-range ordering of conducting triarylamine-based nanowires
12:00 – 12:20	Swann Militzer : Exploring the role of hydrogen-bonding in organic electronic
12:30 – 14:00	Lunch
14:00 – 14:20	Steffen Wiedmann : Compartmentalized smart polymer ionic liquids for responsive systems
14:20 – 14:40	Alexander Kozur : Poly(oxazoline) modified TRGO as thermoresponsive catalyst support for organic coupling reactions
14:40 – 15:00	Viktoriia Untilova : Structural and electronic properties of highly oriented and doped P3HT films
15:00 – 15:30	Coffee
15:30 – 17:00	Time for discussion
17:00– 18:00	Keynote lecture by Christian Müller : Bulk Doping Strategies for Plastic Electronics
19:00	Dinner

Friday, May 10

Session C: From physical concepts to material properties

Chairs: Liudmyla Klochko & Farzad Ramezani

08:30 – 09:30	Keynote lecture by Walter Kob : Simulating Gels and Nanocomposites
09:30 – 09:50	Liudmyla Klochko : Mechanical and dynamical properties of glass forming colloids and polymers
09:50 – 10:10	Dmytro Kushnir : Influence of shear history and particle attractions on the relaxation dynamics from non-equilibrium states to metastable colloidal glassy states
10:10 – 10:40	Coffee
10:40 – 11:00	Farzad Ramezani : Linear mechanical and viscoelastic properties of model glass-forming polymer films
11:00 – 12:00	Keynote lecture by George Petekidis : Colloidal systems under flow: Structure-properties relationships and tunability
12:00 – 13:30	Lunch
13:30 – 13:50	Abhijna Das : Structure formation in quasi 2-dimensional Langmuir polymer films
13:50 – 14:10	Emna Khechine : Ordering and crystallisation of block copolymers at the air-water interface
14:10 – 15:10	Closing Lecture by Gregory McKenna : Challenges in Soft Matter Physics: Is the Kinetic Glass Transition Relevant to Colloidal Dispersions?
15:10 – 16:30	Coffee & time for discussion
16:30	Departure