

Tentative Schedule 20th Zsigmondy Colloquium, 16th to 18th of September 2025, Freiberg

time	Tuesday, 16 th of September	Wednesday, 17 th of September	Thursday, 18 th of September	
09.00-09.45		Plenary: M. Karbarz (Warsaw, Poland) From electroactive and electroresponsive hydrogel materials to soft electrochemical actuators	Plenary: M. Krasowska (Adelaide, Australia) Bridging Scales and Methods: Novel Characterization of Crystallising and Non-crystallising Emulsifiers at Oil-Water Interfaces	
09.45-10.00		N. Hazra (AC) Bio-based Microgels as Containers for Plant Protection	S. Ahn (FG) High internal phase hydrophobic emulsions for selective fine particle separation via froth flotation	
10.00-10.15		C. Schneider (DA) Creation of a Softness Catalogue for poly-NIPAM Microgels	A. Michel-Busch (B) pH-induced changes in the phase behaviour of complexes formed between cationically charged microemulsion droplets and anionic polyelectrolytes	
10.15-10.30		R. Neubert (FG) Structural Changes of Polycationic Microgels upon Interaction with Hexacyanoferrate viewed at an Atomic and a Particle Scale	J. Martín-González (ER) Universal double emulsions made simple	
10.30-10.45		A. Lehmann (FG) Design of Electroactive Core-Shell Microgels based on TEMPO-functionalized PNNPAM	B. Ben Said (FG) Nanoparticle Colloidal Silica as a Calcite Depressant in the Froth Flotation of Semi-Soluble Salt-Type Minerals	
10.45-11.15		Coffee Break		
11.15-11.30		V. Schildknecht (FG) Electrochemical Modulation of Redox-Responsive Copolymer Systems	A. Zink (ER) Supraparticles for carbon capture and inductively triggered release on demand	
11.30-11.45		E. Postnov (B) Kinetics of Interfacial Adsorption and Micellization in Structurally Diverse Surfactants	S. Kolb (ER) Ammonium carbonate as a volatile structure-directing agent for structure formation in SPS	
11.45-12.00		I. Pani (MS) Interface-targeted light-induced drug release with photosurfactants	A. Münch (DD) Structured deposition and staged release of distinct polymer-grafted gold nanoparticles from mesoscopic and macroscopic flat surfaces	
12.00-12.15		L. Köhler (FG) Waterbased PLA-Dispersions for a dirt-repellent and flexible varnish for PUR-based artificial leather	V. Müller (ER) Iron Oxide Supraparticles for Dual-Mode Catalysis: Inductive Heating and Hydrogen Spillover facilitated via Platinum ALD	
12.15-12.30		M. Darge (B) Effect of Polyoxometalates on the Phase Transition of Pluronic F127	G. Carelli (DD) Hybrid Au/MOx Nanostructures for Photoactivated Gas Sensing	
12.30-12.45		M. Sebastian (DD) Multicompartmental micellar structures by gold NPs grafted with diblock copolymers	Closing (M. Rudolph, L. Stegbauer, F. Plamper)	
12.45-14.15	Arrival until 14:15		Departure	
14.15-14.30	Opening (A. Fery, F. Plamper, L. Stegbauer, M. Rudolph)	L. Meraia (DD) Local Viscosity-mapping in Polymer Brushes by Fluorescent Molecular Rotors	<div>chair</div> <div>Biorelated Colloid/Interface Science</div> <div>Interpolyelectrolyte Complexes</div> <div>Simulation</div> <div>Microgels</div> <div>Self-Assembly</div> <div>Interfaces</div> <div>Particles</div> <div>Emulsions and Flotation</div>	
14.30-15.15	Plenary: V. Linko (Tartu, Estonia) Multifunctional DNA Origami Nanostructures	J. Kerosenewalaa (FG) Interferometric investigations on liquid film thinning and rupture in the context of flotation froths		
15.15-15.30	N. Davydiuk (DD) Hemocompatible Glycogen-Tissue Plasminogen Activator Complexes for Enhanced Blood Clot Dissolution	K. Rymsha (DD) The Influence of Irradiation Wavelength on the Growth of Polymer Brushes by SI-PET-RAFT Polymerisation		
15.30-15.45	J. Liu (DD) Hybrid phytoglycogen-dopamine nanoparticles as biodegradable underwater adhesives	D. Platzer (ER) Influence of defects and mechanical damage on the antifouling behaviour of Slippery Liquid-Infused Porous Surfaces (SLIPS)		
15.45-16.00	V. Londhe (DD) Coagulation Matters: ATIII-Enriched Biomolecular Corona Enhances the Hemocompatibility of PEG Nanoparticles	K. Gerstenberger (DD) Cluster growth dynamics of nickel particles in viscoelastic matrices		
16.00-16.30	Coffee Break			
16.30-16.45	V. B. Lokare (AC) Hydrogels Under Chaotropic Control: Polyoxometalates as pH Sensitive Crosslinkers in Cellulose Ether Solutions	M. Stadelmaier (ER) Engineering functional patchy colloids by continuous-flow seeded growth		
16.45-17.00	M. Chakankar (FG) Ion flotation using bio-based surfactants	H. Srinivasalu (B) Palladium Surface-Functionalized Gold Nanoparticles with Enhanced C-C Coupling Reactions		
17.00-17.15	K. Schwarzenberger (DD) Structured membrane formation via biopolymer-surfactant coacervation	N. Traoré (ER) Targeted property design of bimetallic nanoparticles		
17.15-17.30	M. Buchholz (B) Structure-Kinetics Relationship in Interpolyelectrolyte Complexes of PMAA and PDADMAC	P. Schmul (ER) Surface design of noble metal nanoparticles: Towards controlled gold nanocluster formation		
17.30-17.45	S. Heinrich (B) IPECs formed by double hydrophilic copolymers and their ageing behaviour	A. Alsadig (DD) Plasmonic Gold Nanoarchitectures: From Amplified Biosensing to Targeted Photoimmunotherapy		
17.45-18.00	B. Goldmann (Edinburgh) Molecular Simulations of Polymer-Assisted Carbon Nanotube Dispersion for Next-Generation Batteries	N. Salcedo Gálvez (ER) Silica particles with hierarchical porosity		
18.00-18.15	M. Kloppe (FG) High-Throughput Mechanical Characterization of Giant Unilamellar Vesicles by Real-Time Deformability Cytometry	Break		
18.30-...	Poster Session	Conference Dinner		