



International Conference “Multi-Component Soft Materials”, 25.-27.03.2026

SCIENTIFIC PROGRAMME

Wed, 25th March

Wed, 25 th March		
12:00 - 13:00	Registration	
13:00	Welcome Ceremony	
SESSION 1: PEPTIDES		
	PL 1: M. Reches, Short Peptides and Amino Acids as Building Blocks for Sustainable Materials and Coatings Cancelled due to political situation in Middle East	Chair: R. K. Rajaram Baskaran
13:10	CT 1: D. Adams Multicomponent Supramolecular Materials Formed from Functionalised Dipeptides	
13:30	L. Stefan, T. Giraud, P. Hoschtettler, G. Pickaert, M.-C. Averlant-Petit Multicomponent Nucleopeptide-based Hydrogels: from Complexity to Tunability and Potential	
13:50 - 14:50	BREAK	
14:50	K. Gwizdala, L. Mannino, M. Medel, V. Moreno, M. J. Vicent Self-assembling Polypeptide-based Hydrogels for Spinal Cord Injury Treatment	Chair: M. La Manna
15:10	R. K. Rajaram Baskaran, T. Tuttle Topological Data Analysis and Euler Characteristic Transform with PCA for Shape Classification in Molecular Simulations	
15:30	J. Milia, N. Özbek, B. Escuder Pathway Complexity in Dipeptide Self-Assembly: Understanding Competing Routes to Supramolecular Architectures	
15:50 - 16:20	BREAK	
SESSION 2: ACTIVE & OUT OF EQUILIBRIUM MATTER		
16:20	PL 2: N. Bäumer, J. Boekhoven Regulating Phase Separation Using Chemical Energy	Chair: A. Papaioannou
16:50	CT 2: R. Kubota Supramolecular Dynamic Instability Induced by Hybridizing Self-assembled Peptide Fibers with Surfactant Micelles	
17:10	R. Kumar, G. Raffy, C. Davies, A. Del Guerzo Dual-Wavelength Photochemical Control of Gelation and Disassembly of DDOA at the Macro- and Microscopic Levels	
17:30 - 18:00	Flash Poster Presentation	
18:00 - 19:30	Poster Session	

Thu, 26th March

SESSION 2: ACTIVE & OUT OF EQUILIBRIUM MATTER

9:15	PL 3: N. Katsonis Light-driven Morphogenetic Transformations of Soft Matter	Chair: L. Sangermano
9:45	<u>D. Pliego Sosa</u> , E. Mendes, J. van Esch Interfacial Accumulation of Polymers in All-Aqueous Systems	
10:05	<u>N. Cosottini</u> , F. Trummer, D. K. Smith Supramolecular Nanogels that Assemble and Evolve Over Multiple Lengthscales in Response to Different Stimuli	
10:25	<u>A. Papaioannou</u> , G. Raffy, L. Gartzia-Rivero, B. Escuder, A. Del Guerso Understanding the Nanoscale Heterogeneities in Bicomponent Soft Materials	
10:45 - 11:15	BREAK	

SESSION 3: BIOMATERIALS

11:15	Meeting Steering Committee: R. V. Ulijn & WP Leaders	
	PL 4: L. Adler-Abramovich, Bioinspired Materials for Biomedical Applications Cancelled due to political situation in Middle East	Chair: K. Gwizdała
11:45	PL 5: R. V. Ulijn Towards a Universal Assembly Code for Supramolecular Peptide Materials and Systems	
12:15	<u>M. La Manna</u> , S. Daryan, V. Moreno, M. J. Vicent, B. Escuder Multicomponent Hydrogel Based on RGD-mimetic LMWGs as Dynamic ECM-like Scaffold for Biological Applications	
12:35	<u>F. Trummer</u> , R. Raff, D. Pournarkas, T. Sottmann Biocompatible Microemulsions Formed with Di-rhamnolipids and Alkanediols	
12:55 - 14:15	LUNCH	
14:15	PL 6: P. Dankers From Design of Supramolecular Monomers to Unexpected Supramolecular Polymer Behavior – Possibilities for Cell and Organoid Cultures	Chair: D. Pliego Sosa
14:45	<u>L. Sixdenier</u> , N. Judd, L. Mesirca, G. Gines, Y. Rondelez, J. Brujic Programming Reconfigurable Colloidal Self-assembly with DNA Reaction Networks	

SESSION 4: APPLICATIONS

15:05	PL 7: A. Gelissen From Phase Behavior to Tribology – Bridging Fundamentals and Sensory Profiling in Cosmetic Applications	Chair: D. Pliego Sosa
15:35	<u>M. Šako</u> , <u>M. Kanduč</u> Amphiphile-Coated Surfaces as Cavitation-Resistant Materials	
15:55 - 16:25	BREAK	

SESSION 4: APPLICATIONS		
16:25	CT 3: E. Draper Self-Assembled Photothermal Films	Chair: A. R. Krama
16:45	<u>O. A. Abdelaziz</u> , R. R. Benedix, A. Southan, C. Stubenrauch Gelatin-Based Hydrogel particles for Controlled Sorption and Release of Metoprolol	
17:05 - 17:35	PL 8: J. Kleinen Gels and Rheology – a Match Made in Heaven	
19:00	Conference Dinner in Leonhardts Restaurant (with the opportunity to visit the SWR television tower before dinner)	

Fr, 27th March

SESSION 5: SELF-ASSEMBLY: SURFACTANTS & LMWG

9:15	CT 4: P. Schmiedel Influence of Surfactants on Gelation of Low Molecular Weight Gelators	Chair: N. Cosottini
9:35	<u>M. Singh</u> , B. Escuder Entropy – Enthalpy Balance as a Tool to Control Social Diversity in Multicomponent Supramolecular Hydrogels	
9:55	<u>P. Mésini</u> , K. P. Chagas, S. Yimazer, D. Schwaller, J. Combet Impact of Polymorphism in Organogels and Oleogels	
10:15	<u>A. R. Krama</u> , P. Schmiedel, C. Stubenrauch Structural and Rheological Insights into MDI-2/MEL-3B1 Supramolecular Gelation	
10:35 - 11:05	BREAK	
11:05	<u>P. Le Bastart de Villeneuve</u> , F. Trummer, N. Preisig, C. Stubenrauch Generation and Application of Gelled Surfactant-Based Complex Fluids	Chair: M. Singh
11:25	Y. Atmaca, <u>N. S. Kehr</u> Development of Injectable Biomaterials Capable of Co-Delivering Oxygen and Anti-Inflammatory Drugs and Investigation of Their Effects on Cells in Hypoxic Environments	
11:45	PL 9: K. Ozkaya, H. Remita, I. Lampre, M. Selmane, <u>N. Baccile</u> Supramolecular Silver Nanoparticle Hydrogels with Controlled Nanoparticle Size and Order	
12:15	Closing Ceremony	
12:30	LUNCH	

PL 1-9 – plenary lectures

CT 1-4 – contributed talks