

34th Swiss Soft Days

30.09.2024 | 9H00 - 17H00 | EPFL

9h00-9h30	Registration and Coffee	
9h30-9h45	Welcome Speech	
9h45-10h30	Invited Speaker Prof. Jessica Clough (AMI Fribourg)	Fluorescence Mapping of Mechanical Forces in Polymeric Materials
10h30-10h45	Coffee Break	
10h45-11h00	Marta Oggioni (AMI Fribourg)	Photoacid-induced supramolecular network disassembly: A System's approach
11h00-11h15	Lorenzo Lucherini (EPFL)	Direct Laser Writing of Electronically Conductive Features within Soft Hydrogel Substrates
11h15-11h30	Xiao Han (EPFL)	Cellulose Nanofibers-based Customized Substrate for Controlling the Microstructure of Functional Composite
11h30-11h45	Yinyin Bao (ETHZ)	Digital light 3D printing of polymeric soft materials for personalized medicine
11h45-12h00	Stefan Mommer (ETHZ)	Photo-switchable Cyclodextrin-based Slide-Ring Gels
12h00-13h00	Lunch Break	

13h00–13h45	Invited Speaker Prof. John Kolinski (EPFL)	Make it and break it: contact and cracks in soft matter
13h45–14h00	Dom Corbett (UniGe)	Orderphobic Dynamics in Biomembranes: Novel Phase Behaviours and Implications for Cellular Function
14h00–14h15	Ekaterina Poliukhina (EPFL)	Direct measurement of pair interaction potential of proteins
14h15–14h30	Eva Zunzunegui Bru (ETHZ)	Universality in the Structure and Dynamics of Water Under Lipidic Mesophase Soft Nanoconfinement
14h30–14h45	Jacopo Bilotto (EPFL)	Fluid-mediated impact of soft solids
14h45–15h30	Poster Session and Coffee	
15h30–15h45	Yamini Ravichandran (UniGe)	Topology changes of <i>Hydra</i> implicate actin orientation defects in morphogenesis
15h45–16h00	Vincent Hickl (EMPA)	Single-cell live imaging of bacterial infections at complex surfaces
16h00–16h15	Katarzyna Makasewicz (ETHZ)	Formation of Multi-Compartment Condensates through Aging of Protein-RNA Condensates
16h15–16h30	Adrian Dinu (UniBasel)	Innovative Strategy to Design Multifunctional Polymer Systems for Targeted and Synergistic Drug Production
16h30–16h45	Mohammad Peydayesh (ETHZ)	Protein Nanofibrils for Advanced Soft Materials Design
16h45–17h00	Closing Remarks	

Poster Contributions

1	Eva Baur	Granular Elastomers for 3D Printing Applications
2	Luca Bertossi	Optically actuated metallosupramolecular systems comprising opto-chemical transducers
3	Francesca Bono	3D printable κ -carrageenan-based granular hydrogels reinforced with sugar-mediated metal ion coordination
4	Rocío María García Montero	3D Printing of Functional Organoids at Room Temperature
5	Natascha Gray	Propagation of chemical waves in pH-responsive hydrogels resulting inactive mechanical transitions
6	Thomas Kainz	Bibette Method for Sorting Colloidal Particles
7	Anna Koptelova	Exploring the versatile properties of soy waste okara
8	Manuel Kraus	Thermosensitive microgels-in-cryogel composites with anisotropic pore structures and ultrafast swelling
9	Lisa Kunschert	3D printing of Porous Calcium Phosphate scaffolds
10	Yang Li	Coumarin Mechanophores for Fluorescent Damage Sensing in Polymeric Materials
11	Chaninya Mak-iad	Healable PETG-based metallosupramolecular polymers
12	Voichita Mihali	Engineered Advanced Hybrid Systems through Self-Assembly of Janus Nanoparticles and Polymersomes for Bio-Applications

13	Tazio Pleij	Engineering Multi-Material Flows: Advective Assemblers for Complex Soft Structures
14	Zoubeir Saraw	Responsive Double Network Granular Hydrogels for Smart Robotics
15	Iulia Scarlat	Visualizing mechanical stresses in hydrogels with mechanochromic force transducers
16	Shabnam Tarvirdipour	Peptide Nanocarrier Co-delivering an Antisense Oligonucleotide and Photosensitizer
17	Buse Tatli	Engineering cellulose surfaces for efficient nanofibrillation and redispersion
18	Alexandra Thoma	Microrstructured Thermo-responsive Double Network Granular Hydrogels
19	Hanxuan Wang	De Novo Protein Design Enables Precise and Controlled Immobilization on Carbon Nanotube Surfaces
20	Tianyu Yuan	Interfacial reinforcement of a 3D-printable double network granular hydrogel
21	Nick Zahnd	Ion-gradient hydrogel batteries
22	John Coats	pH-Responsive Nanocarriers Formed <i>via</i> an Improved Synthesis of PMOXa- <i>b</i> -PDPA Amphiphilic Block Copolymers
23	Georges Formon	Crosslinking Vitrimers after Melt Processing Using Supramolecularly Masked Dynamic Crosslinkers
24	Antonia Georgopoulou	Soft resistive sensing based on granular hydrogels for soft robotic proprioception
25	Piotr Jasko	Employing Bacterial Toxin Component for Controlled Compartment Fusion in Artificial Systems

26 Pauline Pradal 3D printing of rigid photonic crystals-based materials

27 Rushna Quddus Biomimetic Structural Color: Lipidic Lyotropic Liquid Crystals as Photonic Materials
