



SoftComp
SOFT MATTER COMPOSITES



Annual Meeting 2024, Tuesday 21 May

Start time	End time	Title of contribution	Speaker first name	Speaker family name	Start time	End time	Title of contribution	Speaker first name	Speaker family name	
Arrival and registration										
12:00	14:00	Lunch								
14:00	14:10	>							Room Amphit�atre	
14:10	15:00	A novel approach for altering the rheology and self-assembly of block copolymer (BCP) solutions using magnetic fields	Michelle	Calabrese	Chair person: Stephan F�rster			Room Amphit�atre		
15:00	15:30	Coffee break								
15:30	18:00	Assemblies and Composites (Chair Fabien Duterte)	Room Amphit�atre		13:30	18:00	Polymers and Biopolymers (Chair Paul Beales)	Room Essarts		
15:30	16:00	Phase separation, ageing, and pH-response of glycine-rich proteins from tick bioadhesive	Nandy	Manali	15:30	16:00	Actin-based protrusions in vitro and in cellulo	Patricia	Bassereau	
16:00	16:20	Synthesis and Characterization of Di- and Tri-block copolymers serving as adaptative matrix in magneto-responsive nanocomposites	Simon	Fritz	16:00	16:20	Pressure-induced phase transition in polymer brushes	Leonardo	Chiappisi	
16:20	16:40	Dynamics and macroscopic properties of one component nanocomposites.	Margarita	Kruteva	16:20	16:40	Breath Figure Assembly on Evaporating Polymer Solution Droplets in Levitation	Joao	Cabral	
16:40	17:00	UHMWPE : Towards Explosion Upon Melting Unravelling	Mathieu	Salse	16:40	17:00	Theory of plasticity and strain hardening of glassy polymers	Didier	Long	
17:00	17:20	Exploring Soft Matter with Advanced Sample Environments for Neutron Scattering Experiments	Leonardo	Chiappisi	17:00	17:20	Tailoring the thermal and mechanical properties of side-chain liquid crystal polymers	Linus	Kuckling	
17:20	17:40	Structural characterization of soft matter at interfaces under flow: What is possible with in situ rheo-neutron reflectometry	Philipp	Gutfreund	17:20	17:40	Viscosity of Flexible and Semiflexible Ring Melts - from Molecular Origins to Flow-induced Segregation	Ranajay	Datta	
17:40	18:00	Nanoparticle Adhesion at Liquid-air Interfaces	Ke	Sun	17:40	18:00	Effect of reducing agent on the viscoelastic properties of porcine gastric mucus	Domenico	Larobina	
18:00	20:00	Posters and networking							Room Valoise Ecureuil	
18:00	20:00	Network Coordination Committee (NCC)							Room Fourvi�re	
20:00		Dinner								

Annual Meeting 2024, Wednesday 22 May

Start time	End time	Title of contribution	Speaker first name	Speaker family name	Start time	End time	Title of contribution	Speaker first name	Speaker family name	
09:00	09:50	Cascade reactions in confined polymeric modules	Katharina	Landfester			Chair person: Stephan Förster		Room Amphit�atre	
09:50	10:20	Coffee break								
10:20	12:30	Experimental methods (Chair Kyongok Kang)	Room Amphit�atre		10:20	12:30	Theory and Simulation (Chair Gerhard Gompper)	Room Essarts		
10:20	10:50	Sustainable Raw Materials and Microbial Biosurfactants: Towards a Cleaner Future	Peter	Schmiedel	10:20	10:50	Polymer coil-to-globule transition driven by interfacial tension reduction of the polymer-water interface	Nico	van der Vegt	
10:50	11:10	Rheodialysis - An Experimental Approach for Changing Chemical Environments during Rheological Testing	Anders	Aufderhorst-Roberts	10:50	11:10	Quasi-2D dispersions with competing interactions	Gerhard	Naegele	
11:10	11:30	Accessing Self-Diffusion on Nanosecond Time and Nanometer Length Scales with Minute Kinetic Resolution	Christian	Beck	11:10	11:30	Dependence of mechanical properties of semi-crystalline polymers on entanglement and topology: a molecular dynamics study	Junxiong	Wang	
11:30	11:50	Single particle tracking of heterofunctional active nanostructures under magnetic steering	Moritz Alexander	Raphael	11:30	11:50	Modelling the nonlinear shear rheology of unentangled and entangled linear polymer melts	Maxime	Dalne	
11:50	12:10	Simultaneous quantification of stiffness and adhesion in living and biomimetic systems	Ren�	Riedel	11:50	12:10	Coarse grained simulation of molecular motor-gels	Jude Ann	Vishnu	
12:10	12:30	Rheo-X Methods: Combining Rheology with Spectroscopy	Christopher	Klein	12:10	12:30	Dynamics and phase separation of active Brownian particles on curved surfaces and in porous media	Priyanka	Iyer	
12:30	14:00	Lunch break								
14:00	14:50	Plasmonic Nanostructures for Sensing	Isabel	Pastoriza-Santos			Chair person: Guilhem Baeza	Room Amphit�atre		
14:50	15:00	RIANA: The new Research Infrastructure for Nano-Material Characterization	Peter	Lang						
15:00	15:30	Coffee break								
15:30	18:20	Sustainable Soft Matter (Chair Cecile Monteux)	Room Amphit�atre		15:30	18:20	Gels, Glasses and Colloids (Chair Wilson Poon)	Room Essarts		
15:30	16:00	Biosurfactants ? Greenwashing or Green Washing?	Joachim	Venzmer	15:30	16:00	Watching paint dry	Jasper	Van der Gucht	
16:00	16:20	Enzymatic Degradation of Biopolymers: A combined Light Scattering - Fluorescence study	Vincenzo	Ruzzi	16:00	16:20	Programming lyotropic phase transition in nanoporous microfluidic confinements	Anupam	Sengupta	
16:20	16:40	Transforming Biorefinery Waste into Valuable Resources: A Dual Strategy via Chemical Modification and Polyester	Dilhan	Kandemir	16:20	16:40	3D Printing of Complex-Shaped Photonic Colloidal Glasses	Ahmet	Demir�rs	
16:40	17:00	Itaconic acid: From Oligomers to Microgels	Angela	Giunta	16:40	17:00	Non-equilibrium and Equilibrium Phase behaviour of Charged Colloidal Rods (DNA-rods)	Kyongok	Kang	
17:00	17:20	Understanding Vitrimer Dynamics: A Key Step towards Sustainable Soft Matter with Enhanced Viscoelastic	Alexandru Tudor	Boborodea	17:00	17:20	Imaging liquid migration during extrusion of dense suspensions using X-ray radiography	Rory	O'Neill	
17:20	17:40	Food-grade microgel formulations: from fat replacers and improved sustainable foods to artificial saliva in	Ben	Kew	17:20	17:40	Strain-induced crystallization of swollen hydrogels under puncture	Tetsuharu	Narita	
17:40	18:00	Aqueous foams for the recycling of metals	Cecile	Monteux	17:40	18:00	Fresh cement as a frictional non-Brownian suspension	Rory	O'Neill	
18:00	18:20	Raspberry-like Core-shell microgel@MOF colloids for selective CO2 capture	Chaima	Mahmoudi	18:00	18:20	Studies on gelation kinetics of poly(acrylamide) hydrogels using magnetic particle nanorheology	Ranoo	Surojit	
18:20	20:00	Network Governing Board (NGB)						Room Essarts		
20:00		Dinner								



Annual Meeting 2024, Thursday 23 May

Start time	End time	Title of contribution	Speaker first name	Speaker family name	Start time	End time	Title of contribution	Speaker first name	Speaker family name
09:00	09:50	From twist-bend and splay-bend nematic phases to baby skyrmions and blue phases in systems of colloidal bananas	Marjolein	Dijkstra	Chair person: Wolfgang Paul		Room Amphit�atre		
09:50	10:20	Coffee break							
10:20	12:30	Biological Soft Matter (Chair Jasper van der Gucht)	Room Amphit�atre		10:20	12:35	Young Scientists Session (Chair Michelle Calabrese)	Room Essarts	
10:20	10:50	Short-time transport properties of bidisperse and polydisperse suspensions of proteins confirm a colloid physics picture	Tilo	Seydel	10:20	10:35	Triacylglycerol (fat) removal: Non-trivial impact of surface energy and thermal history	Gunjan	Tyagi
					10:35	10:50	Electrically conductive and antimicrobial Pluronic-based hydrogels	Nicola Antonio	Di Spirito
10:50	11:10	The role of confinement and membrane transport in regulating non-linear enzyme kinetics in a vesicle compartment	Paul	Beales	10:50	11:05	Effects of Electric Field on Protein Phase Behavior	Debes	Ray
					11:05	11:20	Knots in Polymer Melts and Films	Maurice	Schmitt
11:10	11:30	Microswimmer propulsion and interactions in thin films	Dmitry	Fedosov					
11:30	11:50	Platelet adhesion dynamics: Investigating the flow-mediated role of Red Blood Cells through microfluidics	Eleonora	Pero	11:20	11:35	Structural Insights into Interpolyelectrolyte Complexes made of Sodium Carboxymethyl Cellulose and Poly-diallyldimethylammonium chloride	Avik	Das
					11:35	11:50	Impact of the Host Polymer Linear Viscoelastic Properties on Magnetic Hyperthermia of Polypropylene / Fe ₃ O ₄	Laura	Ea
11:50	12:10	The Influence of Charge on the Interaction of Intrinsically Disordered Proteins with Bio-Membranes: A Study on 7-Synuclein and Synaptobrevin-2	Irina	Apanasenko	11:50	12:05	Interpolyelectrolyte Complexes: a neutron spectroscopy approach	Matteo	Chamchoum
12:10	12:30	Cell Membrane-Derived Nanoscale Systems for Delivery of Thrombolytic Therapeutics	Nicole	Henry	12:05	12:20	Structural and dynamical properties of PS-PNIPAM block copolymer micelles in concentrated samples	Benedetta Petra	Rosi
12:30	12:50	Effect and mechanism of action of antimicrobial peptides on model bacterial membranes: a physico-chemical study	Marco	Fornasier	12:20	12:35	Asymmetric Synergy in SDS-DDAO Mixed Surfactant Micelles	Luis	Torquato
					12:35	12:50	Dimerization of Amyloid-beta(1-40) and Amyloid-beta(1-42) using the PRIME20 model and SAMC	Christian	Lauer
12:50	14:00	Lunch break							
14:00	14:50	Soft matter challenges for sustainable ice cream	Peter	Schuetz	Chair person: Stephan F�rster		Room Amphit�atre		
14:50	18:15	SoftComp 20th Anniversary							
14:50	15:30	Self-similar Structure and Dynamics of Large Ring Polymers	Dieter	Richter	Chair person: Stephan F�rster		Room Amphit�atre		
15:30	16:10	On the collective properties of glass forming liquids at the mesoscale. New input from neutron scattering with polarization analysis and MD-simulations	Juan	Colmenero					
16:10	16:40	Coffee break							
16:40	17:20	Collective Motion in Active Matter: From Active Brownian to Cognitive Self-Steering Particles	Gerhard	Gompper	Chair person: Stephan F�rster		Room Amphit�atre		
17:20	18:00	Some personal reflections on SoftComp's role in soft matter research and its future perspectives	Dimitris	Vlassopoulos					
18:00	18:15	SoftComp: a success story!	Flavio	Carsughi					
18:15	20:00	Posters and networking							
20:00		Conference Dinner							



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Annual Meeting 2024, Friday 24 May

Start time	End time	Title of contribution	Speaker first name	Speaker family name	Start time	End time	Title of contribution	Speaker first name	Speaker family name
09:00	09:50	Non-aqueous foams and gel emulsions based on fatty acids: from the design to applications	Anne-Laure	Fameau	Chair person: Grzegorz Nowaczyk			Room Amphit�atre	
09:50	10:20	Coffee break							
10:20	12:50	Gels and Networks (Chair Tetsuharu Narita)	Room Amphit�atre		10:20	12:50	Surfaces, Interfaces and Emulsions (Chair Vladimir Baulin)	Room Essarts	
10:20	10:50	Structure and Dynamics in Model Vitrimers: Looking for Microscopic Evidences of the Topological Transition	Arantxa	Arbe	10:20	10:50	Oleosin-Stabilized Liquid Crystal Droplets as Sensors	Lawrence	Honaker
10:50	11:10	Probing rheological signatures of structural memories in bridged micellar hydrogels	Thanasis	Athanasiou	10:50	11:10	Influence of Glycolipids on the Properties of Lipid Membranes	Emanuel	Schneck
11:10	11:30	Bridging Chemistry, Physics and Mechanics: Understanding how blades damage chemical bonds in soft materials	Donghoa	Zhao	11:10	11:30	Environmental effects on the spatio-temporal evolution of plasma-wrinkled PDMS thin films	Zain	Ahmed
11:30	11:50	Manufacture of macroporous cryogel beads with tunable pore size for cell culture using microfluidics	Katharina	Schwab	11:30	11:50	The Quadrotrough - a novel multimode interfacial rheometer	Moshe	Gottlieb
11:50	12:10	Viscoelastic properties of metallosupramolecular networks: relationship between stickers/entanglements dynamics and terminal relaxation	Pierrot	de Wergifosse	11:50	12:10	Wrapping of vesicles and microgels at membranes	Thorsten	Auth
12:10	12:30	Amphiphilic Copolymer-Based Hydrogels: From Nanostructure Design to Superior Mechanics	Tulika	Sharma	12:10	12:30	Stabilization of THF-in-THF Emulsions by Diblock Copolymers	Hyun Jung	Lee
12:30	12:50	Rheology and microstructural signatures of fatigue in colloidal gels	Gonzalo	Sanchez Vera	12:30	12:50	Deciphering Key Influences of Cytotoxicity and Cellular Uptake of Lyotropic Liquid Crystalline Nanoparticles	Niamh	O'Donoghue
12:50	13:00	Closing remarks						Room Amphit�atre	
13:00		Lunch							