

## **PROGRAMME**

**19 – 22 May 2025**

**Ca' Foscari University of Venice, Italy**



**SoftComp**  
SOFT MATTER COMPOSITES



Starting time CET	Monday 19 May 2025	Starting time CET	Tuesday 20 May 2025	Starting time CET	Wednesday 21 May 2025	Starting time CET	Thursday 22 May 2025
	Arrival and registration	09:00	Plenary 2 Sacanna	09:00	Plenary 4 FILION	09:00	Plenary 6 POON
		09:45	New Methods and Techniques Glasses Colloids Self-Assembly III	09:45	AI and ML in Soft Matter I Biological Soft Matter I	09:45	Polymers and Biopolymers VI Biological Soft Matter III
		10:45	Coffee break	10:45	Coffee break	10:45	Coffee break
		11:15	Polymers and Biopolymers III Glasses Colloids Self-Assembly IV	11:15	AI and ML in Soft Matter II Biological Soft Matter II	11:15	Award ceremony
				12:15	Polymers and Biopolymers IV	11:30	Polymers and Biopolymers VII Biological Soft Matter IV
12:00	Lunch	12:55	Lunch break	12:55	Lunch break	13:10	Lunch
14:15	Welcome Logistics						
14:20							
14:25	Plenary RIANA Project	14:15	Plenary 3 VOGEL	14:15	Plenary 5 LERCH		Departure
14:35	Plenary 1 LIKOS						
15:20	Glasses Colloids Self-Assembly I Polymers and Biopolymers I	15:00	Surfaces, Interfaces and Emulsions I Young Scientists Session I	15:00	Polymers and Biopolymers V Surfaces, Interfaces and Emulsions II		
16:00	Coffee break	16:00	Coffee break	16:00	Coffee break		
16:30	Glasses Colloids Self-Assembly II Polymers and Biopolymers II	16:30	Gels and Networks Young Scientists Session II	16:30	Glasses Colloids Self-Assembly V Surfaces, Interfaces and Emulsions III		
18:10		18:30		18:10	Soft Matter in HE: challenges and opportunities Round table tbc		
18:30	NCC38 Meeting Poster session and Networking I		NGB 15 Meeting Poster session and Networking II	19:20	Gala dinner		
20:00	Dinner	20:00	Dinner				



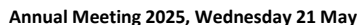
**Annual Meeting 2025, Monday 19 May**

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	14:15	Lunch							
14:15	14:20	Welcome							
14:20	14:25	Logistics							
14:25	14:35	RIANA - The New Research Infrastructure for Nano-Material Characterization	Peter	Lang	Chair tba				
14:35	15:20	Surprises from polymer topology and hydrodynamics	Christos N.	Likos					
15:20	16:00	Glasses, Colloids and Self-Assembly I (Chair tba)			15:20	16:00	Polymers and Biopolymers I (Chair tba)		
15:20	15:40	Interdiffusion of polymer and water in waterborne polymer latex films	Debasish	Saha	15:20	15:40	Pressure-induced phase transition in polymer systems	Leonardo	Chiappisi
15:40	16:00	First insight on the self-assembly behavior of tannins	Chiara	Cestari	15:40	16:00	Static & Dynamic Behavior of Interacting Polymer Brushes in High Molecular Weight Matrices	Christos	Psevdos
16:00	16:30	Coffee break							
16:30	18:10	Glasses, Colloids and Self-Assembly II (Chair tba)			16:30	18:10	Polymers and Biopolymers II (Chair tba)		
16:30	16:50	The plastic flow dynamics of silicate glasses at room temperature is almost normal	Etienne	Barthel	16:30	16:50	Confined chain dynamics in one component polymer nanocomposites (OCNC)	Margarita	Kruteva
16:50	17:10	At ultra-low temperatures, glass-forming liquids relax in a simple way	Francesco	Rusciano	16:50	17:10	Direct Observation of Short-Time Welding in UHMWPE Powders via X-ray PhotonCorrelation Spectroscopy and Magnetic Hyperthermia-Induced Sintering	Guilhem	Baeza
17:10	17:30	Aggregation dynamics of colloidal particles in tin perovskite crystalline film formation	Davide	Amoroso	17:10	17:30	The relaxation dynamics and role of dynamic facilitation in polymer glasses	Johan	Mattsson
17:30	17:50	Realizing Quantitative Quasi-Particle Simulations of Skyrmion Dynamics in Arbitrary Potentials	Simon	Fröhlich	17:30	17:50	Implementing diffusing wave spectroscopy to probe piezoelectric polymer dynamics under electric field	Angelo	Pommella
17:50	18:10	Universal click-chemistry approach for the DNA functionalization of nanoparticles for the development of new optical nanoantennas.	Guillermo Pedro	Acuna	17:50	18:10	Revisiting high frequency dynamics of wormlike micelles by DWS microrheology: determination of molecular weight and radius	Tetsuharu	Narita
18:10	20:00	Posters and networking							
18:30	20:00	Network Coordination Committee, NCC 38 (members only)							
20:00		Dinner							



## Annual Meeting 2025, Tuesday 20 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	09:45	Direct observation and control of non-classical crystallization pathways in binary colloidal systems	Stefano	Sacanna			Chair person: tba		
09:45	10:45	New Methods and Techniques (Chair tba)			09:45	10:45	Glasses, Colloids and Self-Assembly III (Chair tba)		
09:45	10:05	Dielectrocapillarity for exquisite control of fluids	Stephen	Cox	09:45	10:05	Development of Modular Sample Environment for Non-Equilibrium Soft Matter	Avik	Das
10:05	10:25	Microfluidic dead-end chamber devices for the study of water-in-water droplets and biological cells	Hans	Wyss	10:05	10:25	Navigating Complexity: Designing Transient and Oscillating Systems with Nanoparticles	Anish	Rao
10:25	10:45	Towards Absolute Interaction Measurements Using Optical Tweezers	Chi	Zhang	10:25	10:45	Electrically Controlled Self-Propulsion and Defect Formation of TTAB Microdroplets in Twisted and Planar Nematic Liquid Crystals	Aneena	Mohan
10:45	11:15				Coffee break				
11:15	12:55	Polymers and Biopolymers III (Chair tba)			11:15	12:55	Glasses, Colloids and Self-Assembly IV (Chair tba)		
11:15	11:35	Probing multiscale dynamics of pea protein gel during digestion	Davide	Schirone	11:15	11:35	Investigating the Self-Assembly of Chitin Films Enhanced with Natural Polyphenols: Transforming Seafood Biomass Waste into Functional Materials	Maryam	Rahimihaghighi
11:35	11:55	Unlocking the Potential of Humins for Functional Materials: Chemical Modifications via Esterification and Diels-Alder Reactions	Dilhan	Kandemir	11:35	11:55	Morphological Transitions in Block Copolymer Surface Micelles via Solvent Immersion and the Effective Protein-salt Binding	Kyong ok	Kang
11:55	12:15	Seacrete: a soft composite for marine restoration	Thomas	Kodger	11:55	12:15	Flow and Phase behaviour of small and ultra-soft colloids	Nikolaos	Bourker
12:15	12:35	Nanocomposites of Lignin and Poly(butylene succinate): the effect filler size and concentration on physicochemical and functional properties	Daniele	Massari	12:15	12:35	Using oscillations to stabilize particle strings and their fibers in flowing viscoelastic media	Sebastian	Gassenmeier
12:35	12:55	Advancing Sustainable Metal Protection: Bio-Based Coatings from Fractionated Kraft Lignin	Umberto	Danelon	12:35	12:55	Non linear start-up response of wormlike micelles through rheology and rheo-microscopy: banding & scission	Rossana	Pasquino
12:55	14:15				Lunch break				
14:15	15:00	Colloidal clusters from confined self-assembly: Structure ? Thermodynamics ? Formation kinetics	Nicolas	Vogel			Chair person: tba		
15:00	16:00	Surfaces, Interfaces, and Emulsions I (Chair tba)			15:00	16:00	Young Scientists Session I (Chair tba)		
15:00	15:20	Creating Tailorable Substrates to Investigate High Curvature Effects on Model Biomembrane	Amal	Alamri			Environmental effects on the spatio-temporal evolution of plasma-wrinkled PDMS thin films	Zain	Ahmed
15:20	15:40	plc! plc! : The impact of a water droplet in a surfactant solution to probe the Marangoni flow.	Lazhar	Benyahia			Evaluation of disposable PDMS rheometer geometries for bulk rheology measurements on P. putida biofilms	Vince	Engelborghs
15:40	16:00	Functional Interfaces of Biomimetic Polydopamine and Transition Metal Oxides - Efficient Photocatalysis For	Jakub	Szewczyk			Hydrogel Design for Cornea-on-chip Drug Screening Model	Alexis	Franco
16:00	16:30				Coffee break				
16:30	18:30	Gels and Networks (Chair tba)			16:30	18:30	Young Scientists Session II (Chair tba)		
16:30	16:50	permeation and selective retention of hydrogel membranes containing free added PEG chains	Cecile	Monteux			Combination of Coevolutionary Information and Supervised Learning Enables Generation of Cyclic Multifunctional antioxidant and UV-shielding coating based on highly engineered ultra-small CeO2 NPs for	Cristian	Fregonese
16:50	17:10	Thermo-Rheological Characterization of Konjac Glucomannan aqueous solutions	Simona	Russo Spena			Structure-yielding relationship of red blood cell networks	Erica	Galvagno
17:10	17:30	Multifunctional Supramolecular Gels with Strong Rheological Performances Formed by Self-assembly of	Théo	Merland			Direct Ink Writing of PANI Structures for Electromagnetic Shielding	Christoph	Haessig
17:30	17:50	Phase Diagram and Structural Transitions in Multiblock Amphiphilic Copolymer Hydrogels	Tulika	Sharma			Reductive catalytic fractionation-derived lignin nanoparticles and cellulose as multifunctional composite	Govindanunni	Padmakumar
17:50	18:10	Elastocapillarity in spinning polydimethylsiloxane (PDMS) droplets: Transition from liquid droplets to soft	Sumita	Sahoo			Extension and Retraction of impulsively induced viscoelastic jets	Giorgia	Peroni
18:10	18:30	Biobased, biodegradable, tough hydrogels from itaconic acid monomer	Hiam	Abou Khachfe				Adrian	Schink
18:30	20:00				Poster Session and Networking II				
18:30	20:00				Network Governing Board (NGB 15)				
20:00					Dinner				



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	09:45	Colloidal quasicrystals: How entropy can lead to forbidden symmetries	Laura	Filion	Chair person: tba				
10:20	12:30	AI and ML in Soft Matter I (Chair tba)			10:20	12:35	Biological Soft Matter I (Chair tba)		
09:45	10:05	Mechanisms of spontaneous translocation through lipid bilayers	Vladimir	Baulin	09:45	10:05	Untangling plant cell walls biomechanics and the control of transport	Yoselin	Benitez-Alfonso
10:05	10:25	Learning Classical Density Functionals for Colloidal Systems	Martin	Oettel	10:05	10:25	Elastin-Like Polypeptide Condensates as Reversibly Triggerable Compartments for Synthetic Cells	Chang	Chen
10:25	10:45	Deep-learning-based instability detection of formulated liquids	Maurizio	De Micco	10:25	10:45	Unveiling Myelination, Brain Microstructure and Connectivity: Combining 3D-scanning SAXS, WAXS, and	Martin	Dulle
10:45	11:15	Coffee break							
11:15	12:15	AI and ML in Soft Matter II (Chair tba)			11:15	12:35	Biological Soft Matter II (Chair tba)		
11:15	11:35	Machine learning of glass transition temperature from chemical structure in conjugated polymers	Sebastian	Brierley-Croft	11:15	11:35	Adhesion-driven vesicle translocation through membrane-covered pores: modeling the host-cell entry of apicomplexan parasites	Thorsten	Auth
11:35	11:55	A Machine Learning Approach to Identify Carbon Dioxide Binding Proteins for Sustainability and Health	George	Weston	11:35	11:55	Antimicrobial Peptide Interactions with Solid Supported Lipid Bilayer to Combat Antimicrobial Resistance	Anjali	Lad
11:55	12:15	Machine Learning many-body potentials for charged colloidal suspensions	This	ter Rele	11:55	12:15	Interaction of the Parkinson's-Related Intrinsically Disordered Protein $\alpha$ -Synuclein with Biomembranes: A Neutron Reflectivity Examination	Irina	Apanasenko
12:15	12:55	Polymers and Biopolymers IV (Chair tba)			12:15	12:35	The sedimentation role on bacteria asymmetrical distribution in confined environments	Daniele	Marra
12:15	12:35	Study of the Piezoelectric Properties of PVDF/PLA Blends	Chloe	Melin					
12:35	12:55	Environment-Sensitive Thin Polymeric Membranes	Adam	Krysztofik					
12:55	14:15	Lunch break							
14:15	15:00	Chemical Design of Self-Regulation in Soft Materials	Michael Markus	Lerch	Chair person: tba				
15:00	16:00	Polymers and Biopolymers IV (Chair tba)			15:00	16:00	Surfaces, Interfaces, and Emulsions II (Chair tba)		
15:00	15:20	Breakdown of polymer self-similarity induced by polar activity in diluted and melt conditions	Marisol	Ripoll	15:00	15:20	Emergence of capillary waves in miscible coflowing fluids	Domenico	Truzzolillo
15:20	15:40	Symmetry of loop extrusion by dimeric SMC complexes is DNA-tension-dependent	Adrian John	Pinto	15:20	15:40	Peptide-guided Self-Assembly: Fabrication of Tailored Spiral-like Nanostructures for Precise Inorganic	Armando	Maestro
15:40	16:00	How loop extrusion affects the flow properties of dense DNA	Filippo	Conforto	15:40	16:00	Anomalous particle transfer between immiscible liquids in concentrated suspensions	James	Richards
16:00	16:30	Coffee break							
16:30	18:10	Glasses, Colloids and Self-Assembly IV (Chair tba)			16:30	18:10	Surfaces, Interfaces, and Emulsions III (Chair tba)		
16:30	16:50	Vertical drying as a platform to study the role of polydispersity in 2D and 3D crystallization	Job	Thijssen	16:30	16:50	Using Cruciferin Microgels for Microcapsule Formation	Christophe	Chassenieux
16:50	17:10	Quantitative 3D Real-Space analysis of Photonic Supraparticles	Jesse	Buckmann	16:50	17:10	Stabilization of water-in-water emulsions by complex coacervate core micelles	Léna	Vincent
17:10	17:30	Dynamics and phase behavior of quasi-2D dispersions	Gerhard	Nägele	17:10	17:30	Microgels wrapping at lipid-bilayer membranes	Tanwi	Debnath
17:30	17:50	Dielectric and Absorptive Doping of Photonic Icosahedral Supraparticles	Ruizhi	Yang	17:30	17:50	Microgel Stabilized Aqueous Foams	Manmeet Kaur	Sodhi
17:50	18:10	A ferroelectric phase transition underlying the liquid-liquid phase transition in supercooled water	Maria Grazia	Izzo	17:50	18:10	Doing the dishes with neutrons: micro-flow SANS of fat removal	Luis	Torquato
18:10	19:20	Soft Matter in Horizon Europe: challenges and opportunities Round table - tbc							
19:20		Gala dinner							



## Annual Meeting 2025, Thursday 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	09:45	The Ductile to Brittle Transition in Jammed Suspension Solids	Wilson	Poon	Chair person: tba				
09:45	10:45	Polymers and Biopolymers V (Chair tba)			09:45	10:45	Biological Soft Matter III (Chair tba)		
09:45	10:05	Polypeptide-Based Polymer Electrolytes for Lithium Batteries: A Structure-Property Investigation	Emmanoui	Glynos	09:45	10:05	A sTicky Situation: Phase Separation and Ageing of Disordered Protein from Tick Adhesive	Siddharth	Deshpande
10:05	10:25	Knots in polymer molecules under Couette & Poiseuille flow	Maurice P.	Schmitt	10:05	10:25	Advancing High-Speed AFM Analysis of Dynamic Systems	Maya	Tekchandani
10:25	10:45	Periodic cooking of eggs	Emilia	Di Lorenzo	10:25	10:45	Rheological characterization of heterogeneous mucus samples obtained by disulfide bond reduction	Domenico	Larobina
10:45	11:15	Coffee break							
11:15	11:30	Award ceremony							
11:30	13:10	Polymers and Biopolymers VI (Chair tba)			11:30	13:10	Biological Soft Matter IV (Chair tba)		
11:30	11:50	Phase behavior and self-assembly properties of semiflexible polymers in solution	Tatjana	Skrbic	11:30	11:50	Hybrid lipid-polymer materials for biotechnology applications	Paul	Beales
11:50	12:10	Heterogeneous decoration of ionic mesopores by ionic and poly(ionic) liquids	Julian	Oberdisse	11:50	12:10	Designing bioinspired microgels for enhanced mucosal adhesion	Bianca	Hazt
12:10	12:30	Varying the core topology in all-glycidol hyperbranched polyglycerols	Fabienne	Barroso-Bujans	12:10	12:30	Charge effects in antibody solutions ? insight from analogies to star polyelectrolytes	Peter	Schurtenberger
12:30	12:50	Rheology of Block Copolymer Solutions in Organic Solvents	Irene	Perna	12:30	12:50	Targeted Thrombolytics using Red Blood Cell derived Drug Delivery Systems	Diya	Agrawal
12:50	13:10	From Monomer to Nanostructures by Polymerization-Induced Electrostatic Self-Assembly (PIESA): Revealing Structural and Morphological Features	Neshat	Moslehi	12:50	13:10	Continuity of Short-Time Dynamics Crossing the Liquid/Liquid Phase Separation in Charge-Tuned Protein Solutions	Tilo	Seydel
13:10		Lunch							