

PROGRAMME

19 – 22 May 2025

Ca' Foscari University of Venice, Italy





Starting time CET	Monday 19 May 2025		Starting time CET			Starting time CET	Wednesday	21 May 2025	Starting time CET	Thursday 22 May 2025		
			9:00	Plenary 2 Sacanna		9:00	Plenary	4 FILION	9:00	Plenary 6 POON		
	Arrival and	registration	9:45 gistration		Glasses Colloids Self-Assembly III	9:45	Al and ML in Soft Matter I	Biological Soft Matter I	9:45	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 12:15	AI and ML in Soft Matter II Polymers and	Biological Soft Matter II	11:15 11:30	Polymers and Biopolymers VII	Biological Soft Matter IV	
12:00		h	12:35				Biopolymers IV		12:35	Award ce	eremony	
	Lunch		12:55						12:55			
14:15	Welcome			Lunch	Lunch break		Lunch	break		Lunch		
14:20	Logi	stics										
14:25	Plenary 1 LIKOS		14:15	Plenary 3 VOGEL		14:15	Plenary 5 LERCH		Departure			
15:10	Plenary RIA	NA Project	15:00			15:00	Surfaces,					
15:20	Glasses Colloids Self-Assembly I	Polymers and Biopolymers I	10.00	Surfaces, Interfaces and Emulsions I	Young Scientists Session I	10.00	Polymers and Biopolymers V	Interfaces and Emulsions II				
16:00	Coffee	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	Poster session and		18:10 18:30	NGB 22 Meeting	Poster session and	18:10	Postersession and Networking III					
	NCC38 Meeting	Networking I		NOB 22 Weeting	Networking II	19:20	Gala d	inner				
20:00	Dinner		20:00	Din	ner							





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 (Stephan Förster) ADM											
14:20	14:25												
14:25	15:10	Surprises from polymer topology and hydrodynamics	Christos N.	Likos									
15:10	15:20	RIANA - The New Research Infrastructure for Nano-Material Characterization	Peter	Lang			Chair Stephan Foerster ADM						
15:20	16:00	Glasses, Colloids and Self-Assembly I (Chair	Tetsuharu Narita)	ADM	15:20	16:00	0 Polymers and Biopolymers I (Chair Gerhard Nagle) SCOZ						
15:20	15:40	Interdiffusion of polymer and water in waterborne polymer latex films	Debasish	Saha	15:20	15:40	Direct Observation of Short-Time Welding in UHMWPE Powders via X-ray PhotonCorrelation Spectroscopy and Magnetic Hyperthermia-Induced Sintering	Guilhem	Baeza				
15:40	16:00	First insight on the self-assembly behavior of tannins	Chiara	Cestari	15:40		Static & Dynamic Behavior of Interacting Polymer Brushes in High Molecular Weight Matrices	Christos	Psevdos				
16:00	16:30				Coffee	break		•					
16:30	18:10	10 Glasses, Colloids and Self-Assembly II (Chair Rosanna Pasquino) ADM 16:30 18:10 Polymers and Biopolymers II (Chair Martin Oettel) SCOZ											
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		At ultra-low temperatures, glass-forming liquids relax in a simple way	Francesco	Rusciano	16:50	17:10	The relaxation dynamics and role of dynamic facilitation in polymer glasses	Johan	Mattsson				
17:10		Aggregation dynamics of colloidal particles in tin perovskite crystalline film formation	Davide	Amoroso	17:10		Implementing diffusing wave spectroscopy to probe piezoelectric polymer dynamics under electric field	Angelo	Pommella				
17:30		Realizing Quantitative Quasi-Particle Simulations of Skyrmion Dynamics in Arbitrary Potentials	Simon	Fröhlich	17:30		Revisiting high frequency dynamics of wormlike micelles by DWS microrheology: determination of molecular weight and radius	Tetsuharu	Narita				
17:50		Universal click-chemistry approach for the DNA functionalization of nanoparticles for the development of new optical nanoantennas.	Guillermo Pedro	Acuna	17:50	18.10	Varying the core topology in all-glycidol hyperbranched polyglyerols	Fabienne	Barroso-Bujans				
18:10	20:00				Posters and	networking							
18:30	20:00	Network Coordination Committee, NCC 38 (members only)											
20:00		Dinner											
		Denile Meinerdi											

ADM Auditorium Danilo Mainardi





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	
9:00	9:45	Direct observation and control of non-classical crystallization pathways in binary colloidal systems	Stefano	Sacanna			Chair person: Alfons van Blaaderen ADM			
9:45	10:45	New Methods and Techniques (Chair V	adimir Baulin) ADN	1	9:45	10:45	Glasses, Colloids and Self-Assembly III (Chair	Grzegorz Nowaczyk)	SCOZ	
9:45	10:05	Uncovering mechanisms for ion transport in solid electrolytes	Vanessa	Ward	9:45	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	Using oscillations to stabilize particle strings and their fibers in flowing viscoelastic media	Sebastian	Gassenmeier	
10:45	11:15				Coffee					
11:15	12:55	Polymers and Biopolymers III (Chair W	olfgang Paul) ADM		11:15	12:35	Glasses, Colloids and Self-Assembly IV (Cha	ir Marisol Ripoll) SC	oz	
11:15		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 physicomechanical and functional properties	Daniele	Massari	12:15	12:35	Non linear start-up response of wormlike micelles through rheology and rheo-microscopy: banding & scission	Rossana	Pasquino	
12:35	12:55	Advancing Sustainable Metal Protection: Bio-Based Coatings from Fractionated Kraft Lignin	Umberto	Danelon						
12:55	14:15	Lunch break								
14:15	15:00	Colloidal clusters from confined self-assembly: Structure ? Thermodynamics ? Formation kinetics	Nicolas	Vogel			Chair person: Paul Beals ADM			
15:00	16:00	Surfaces, Interfaces, and Emulsions I (Cha	air Wilson Poon) AD	м	15:00	16:00	00 Young Scientists Session I (Chair Jesse Bückmann) SCOZ			
15:00	15:20	Creating Tailorable Substrates to Investigate High Curvature Effects on Model Biomembrane	Amal	Alamri	15:00	15:20	Extension and Retraction of impulsively induced viscoelastic jets	Adrian	Schink	
15:20		plic! ploc! : The impact of a water droplet in a surfactant solution to probe the Marangoni flow.	Lazhar	Benyahia	15:20	15:40	Structure-yielding relationship of red blood cell networks	Christoph	Haessig	
15:40	16:00	Functional Interfaces of Biomimetic Polydopamine and Transition Metal Oxides - Efficient Photocatalysis For	Jakub	Szewczyk	15:40	16:00	Combination of Coevolutionary Information and Supervised Learning Enables Generation of Cyclic Peptide Inhibitors	Cristian	Fregonese	
16:00 16:30	16:30 18:30	Gels and Networks (Chair Alfons van	Plaadoron) ADM		Coffee 16:30	break 18:30	Young Scientists Session II (Chair Thijs ter Rele	and Giorgia Francina)	\$607	
16:30		permeation and selective retention of hydrogel membranes containing free added PEG chains		Monteux	16:30	16:50	Environmental effects on the spatio-temporal evolution of plasma-wrinkled PDMS thin films	Zain	Ahmed	
16:50		Thermo-Rheological Characterization of Konjac Glucomannan aqueous solutions	Simona	Russo Spena	16:50	17:10	Evaluation of disposable PDMS rheometer geometries for bulk rheology measurements on P. putida biofilms during	Vince	Engelborghs	
17:10	17:30	Multifunctional Supramolecular Gels with Strong Rheological Performances Formed by Self-assembly of	Théo	Merland	17:10	17:30	Hydrogel Design for Cornea-on-chip Drug Screening Model	Alexis	Franco	
17:30	17:50	Phase Diagram and Structural Transitions in Multiblock Amphiphilic Copolymer Hydrogels	Tulika	Sharma	17:30	17:50	Direct Ink Writing of PANI Structures for Electromagnetic Shielding	Govindanunni	Padmakumar	
17:50		Elastocapillarity in spinning polydimethylsiloxane (PDMS) droplets: Transition from liquid droplets to soft	Sumita	Sahoo	17:50	18:10	Reductive catalytic fractionation-derived lignin nanoparticles and cellulose as multifunctional composite	Giorgia	Peroni	
18:10	18:30	Biobased, biodegradable, tough hydrogels from itaconic acid monomer	Hiam	Abou Khachfe	18:10	18:30	Extension and Retraction of impulsively induced viscoelastic jets	Erica	Galvagno	
18:30	20:00				Poster Session an	, in the second s				
18:30	20:00	Network Governing Board (NGB 15)								
20:00		Dinner								
) anila Mainardi								

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Annual Meeting 2025, Wednesday 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		
9:00	9:45	Colloidal quasicrystals: How entropy can lead to forbidden symmetries	Laura	Filion		-	Chair person: Achille Giacometti ADM				
9:45	10:45	AI and ML in Soft Matter I (Chair Ta	tjana Skrbic) ADM		9:45	10:45	Biological Soft Matter I (Chair Cecile I	Monteaux) SCOZ			
9:45	10:05	Mechanisms of spontaneous translocation through lipid bilayers	Vladimir	Baulin	9:45	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	Unveiling Myelination, Brain Microstructure and Connectivity: Combining 3D-scanning SAXS, WAXS, and 3D-	Martin	Dulle		
10:25	10:45	Deep-learning-based instability detection of formulated liquids	Maurizio	De Micco	10:25	10:45	Interaction of the Parkinson's-Related Intrinsically Disordered Protein ?-Synuclein with Biomembranes: A	Irina	Apanasenko		
10:45	11:15				Coffee b	reak					
11:15	12:15	AI and ML in Soft Matter II (Chair	Hans Wyss) ADM	-	11:15	12:15	Biological Soft Matter II (Chair Anna	Stradner) SCOZ	-		
11:15	11:35	Machine learning of glass transition temperature from chemical structure in conjugated polymers	Sebastian	Brierley-Croft	11:15		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	Thijs	ter Rele	11:55	12:15	Hybrid lipid-polymer materials for biotechnology applications	Paul	Beales		
12:15	12:55	Polymers and Biopolymers IV (Chair Pete	r Schurtemberger) A								
12:15		Study of the Piezoelectric Properties of PVDF/PLA Blends	Chloe	Melin							
12:35		Environment-Sensitive Thin Polymeric Membranes	Adam	Krysztofik							
12:55	14:15				Lunch b	reak					
14:15	15:00	Chemical Design of Self-Regulation in Soft Materials	Michael Markus	Lerch			Chair person: Peter Lang ADM				
15:00	16:00	Polymers and Biopolymers IV (Chair Pete	r Schurtemberger) A	DM	15:00	16:00		istophe Chassenieux) SCOZ		
15:00	15:20	Breakdown of polymer self-similarity induced by polar activity in diluted and melt conditions	Marisol	Ripoll	15:00	15:20	Peptide-guided Self-Assembly: Fabrication of Tailored Spiral- like Nanostructures for Precise Inorganic Templating	Armando	Maestro		
15:20	15:40	Symmetry of loop extrusion by dimeric SMC complexes is DNA-tension-dependent	Adrian John	Pinto	15:20	15:40	Anomalous particle transfer between immiscible liquids in concentrated suspensions	James	Richards		
15:40	16:00	How loop extrusion affects the flow properties of dense DNA	Filippo	Conforto	15:40	16:00	Using Cruciferin Microgels for Microcapsule Formation	Christophe	Chassenieux		
16:00	16:30				Coffee b						
16:30	18:10	Glasses, Colloids and Self-Assembly IV (C	hair Taco Nicolai) AD	м	16:30	17:50	Surfaces, Interfaces, and Emulsions III (Chair A	chille Giacometti)	scoz		
16:30	16:50	Vertical drying as a platform to study the role of polydispersity in 2D and 3D crystallization	Jop	Thijssen	16:30	16:50	Stabilization of water-in-water emulsions by complex coacervate core micelles	Léna	Vincent		
16:50	17:10	Quantitative 3 D Real-Space analysis of Photonic Supraparticles	Jesse	Buckmann	16:50	17:10	Microgels wrapping at lipid-bilayer membranes	Tanwi	Debnath		
17:10	17:30	Dynamics and phase behavior of quasi-2D dispersions	Gerhard	Nägele	17:10	17:30	Microgel Stabilized Aqueous Foams	Manmeet Kaur	Sodhi		
17:30	17:50	Dielectric and Absorptive Doping of Photonic Icosahedral Supraparticles	Ruizhi	Yang	17:30	17:50	Doing the dishes with neutrons: micro-flow SANS of fat removal	Luis	Torquato		
17:50	18:10	A ferroelectric phase transition underlying the liquid- liquid phase transition in supercooled water	Maria Grazia	Izzo							
18:10	19:20			Soft Matter in Horiz	on Europe: challen	ges and opport	unities Round table				
19:20					Gala dir	nner					

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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		
9:00	9:45	The Ductile to Brittle Transition in Jammed Suspension Solids	Wilson	Poon			Chair person: Benoit Poppinet ADM				
9:45	10:45	Polymers and Biopolymers V (Chair Mar	garita Kruteva) AD	М	9:45	10:45	Biological Soft Matter III (Chair Roksana	a Markiewicz) SCOZ			
9:45	10:05	Polypeptide-Based Polymer Electrolytes for Lithium Batteries: A Structure-Property Investigation	Emmanoui	Glynos	9:45		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	Pressure-induced phase transition in polymer systems	Leonardo	Chiappisi	10:25	10:45	Continuity of Short-Time Dynamics Crossing the Liquid/Liquid Phase Separation in Charge-Tuned Protein Solutions	Tilo	Seydel		
10:45	11:15	Coffee break									
11:15	12:35	Polymers and Biopolymers VI (Chair G		I	11:15	12:35	Biological Soft Matter IV (Chair Kyongok Kang) SCOZ				
11:15	11:35	Phase behavior and self-assembly properties of semiflexible polymers in solution	Tatjana	Skrbic	11:15		Rheological characterization of heterogeneous mucus samples obtained by disulfide bond reduction	Domenico	Larobina		
11:35	11:55	Periodic cooking of eggs	Emilia	Di Lorenzo	11:35	11.55	The sedimentation role on bacteria asymmetrical distribution in confined environments	Daniele	Marra		
11:55	12:15	Rheology of Block Copolymer Solutions in Organic Solvents	Irene	Perna	11:55	12:15	Charge effects in antibody solutions ? insight from analogies to star polyelectrolytes	Peter	Schurtenberger		
12:15		From Monomer to Nanostructures by Polymerization- Induced Electrostatic Self-Assembly (PIESA): Revealing Structural and Morphological Features	Neshat	Moslehi	12:15	17.35	Targeted Thrombolytics using Red Blood Cell derived Drug Delivery Systems	Diya	Agrawal		
12:35	12:50	Award ceremony ADM									
12:55		Lunch									

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