

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 | | | | | | | | |

ADM Auditorium Danilo Mainardi





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 | | | | | |
| | | | | | | | | | | | |

ADM Auditorium Danilo Mainardi





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 | | | | | | | | | |

ADM Auditorium Danilo Mainardi