



Annual Meeting
2019



Programme



EUSMI/SoftComp Annual Meeting 2019 Programme Overview



08.10.2019		09.10.2019		10.10.2019		11.10.2019	
Opening Plenary Peter Schurtenberger 08:45 - 09:45		Plenary André Studart 08:45 - 09:45		Parallel session 3.1 Young scientists 09:00-10:20	Parallel session 3.2 General 09:00-10:20	EUSMI General Assembly 08:45-12:00	
Coffee break 09:45-10:15				Coffee break 10:20-10:50			
Joint session General 10:15-12:35		Parallel session 2.1 3D printing 10:15-12:15	Parallel session 2.2 Single molecule methods 10:15-12:15	Parallel session 3.3 Young scientists 10:50-12:30	Parallel session 3.4 General 10:50-12:30		
Lunch break 12:35-14:15		Lunch break 12:15-14:15		Lunch break 12:30-14:00			
Plenary Jasper van der Gucht 14:15-15:15		Plenaries Jan Hofkens Anupam Sengupta 14:15-15:45		Plenary Gerhard Gompper 14:00-15:00			
Coffee break 15:15-15:45				Coffee break 15:00-15:30			
Parallel session 1.1 General 15:45-18:05	Parallel session 1.2 Biophysics 15:45-18:05	Poster session with coffee and drinks 15:45-18:00		Joint session General 15:30-18:05			
Break 18:05-18:30				Break 18:05-18:30			
SoftComp NCC-Meeting 18:30-20:30		EUSMI DRP tutorial 17:30 - 19:30		SoftComp NGB -Meeting 18:30-20:30			
				Conference dinner starting 20:30			

Seebay Hotel in Portonovo, Ancona, Italy



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Day 1: 08. October 2019

Opening plenary 8:45-9:45	8:45-9:45 Peter Schurtenberger <i>Assembling responsive colloids</i>
9:45-10:15	Coffee Break
Joint session General 10:15-12:35	Invited: 10:15 – 10:45 Laurence Ramos <i>Is gluten a polymer gel like any others? A journey into the complexity of wheat proteins</i> 10:45 – 11:15 Olivier Lafon <i>An atomistic description of interfaces using NMR</i> Contributed: 11:15 – 11:35 Guillaume Falco <i>H-bonding in Terpyridine Functionalized Polymer Nanocomposites</i> 11:35 – 11:55 Pablo Griffiths <i>Induction Stimulated Phase-changing Rubber: Where does the heat come from?</i> 11:55 – 12:15 Sara Jabbari Farouji <i>Compression-induced anti-nematic ordering in glassy and semicrystalline polymers</i> 12:15 – 12:35 Nick Jaensson <i>Dynamics of thin liquid films: Implications for beer foam stability</i>
12:35-14:15	Lunch

Plenary	14:15 - 15:15 Jasper van der Gucht <i>Tuning strain stiffening and fracture of composite fibre networks</i>	
15:15 – 15:45	Coffee Break	
Parallel sessions 1.1: General 1.2: Biophysics 15:45-18:05	<p>Contributed:</p> <p>15:45 – 16:05 Christian Ligoure <i>The role of extensional viscosity in the expansion dynamics of sheets formed by drop impact of a viscoelastic thinning fluid</i></p> <p>16:05 – 16:25 Beatriz Robles Hernandez <i>Water Dynamics and Self-Assembly of Single Chain Nano-Particles in Concentrated Solutions</i></p> <p>16:25 – 16:45 Annabelle Tan <i>Spontaneous surface wrinkling for tuneable gratings and photonics application</i></p> <p>16:45 – 17:05 Domenico Truzzolillo <i>Spinning drop dynamics in miscible and immiscible environments</i></p> <p>17:05 – 17:25 Lutz Willner <i>Molecular Exchange in Clusters and Flowerlike Micelles</i></p> <p>17:25 – 17:45 Paula Malo de Molina <i>Direct Observation of the Time-dependent Dynamic Tube Dilatation in Entangled Polymer Blends</i></p> <p>17:45 – 18:05 Jörg Läger <i>New rheometric tools for advanced soft matter research</i></p>	<p>Invited:</p> <p>15:45 – 16:15 Ralf Richter <i>Cell adhesion to soft interfaces under flow</i></p> <p>16:15 – 16:45 Patricia Bassereaux <i>Tba</i></p> <p>Contributed:</p> <p>16:45 – 17:05 Paul Beales <i>Mechanomodulation of lipid membranes by weakly aggregating silver nanoparticles</i></p> <p>17:05 – 17:25 Laura Casanellas <i>The role of adhesion on the microfluidic flow of biomimetic tissues</i></p> <p>17:25 – 17:45 Matteo Castronovo <i>Allosteric modulation of local reactivity in DNA origami</i></p> <p>17:45 – 18:05 Ekatarina Kostyurina <i>Transmigration of non-ionic synthetic polymers through lipid membranes</i></p>

Day 2: 09. October 2019

Plenary 8:45-9:45	8:45 – 9:45 Andre Studart <i>3D Printing of Soft Matter into Bioinspired Architected Materials</i>	
9:45-10:15	Coffee break	
Parallel sessions 2.1: 3D Printing 2.2: Single molecule methods 10:15-12:15	<p>Invited: 10:15 – 10:45 Julian Thiele <i>Microfluidic device fabrication via μSL utilizing tailored photopolymer formulations</i> 10:45 – 11:15 Christian Clasen <i>Novel non-dimensional groups describing transition criteria between scaling regimes in capillary thinning of complex fluids</i></p> <p>Contributed: 11:15 – 11:35 Preeti Sharma <i>3D printing based technique for bioinspired surface patterning</i> 11:35 – 11:55 Jacek Wychowaniec <i>3D Printing of Spatially Patterned Single- and Double-Network Magnetically Responsive Hydrogels</i> 11:55 – 12:15 Clara Garcia-Astrain <i>SERS Active Inks for 4D Bioprinting</i></p>	<p>Invited: 10:15 – 10:45 Johannes Hohlbein <i>Single-molecule biophysics: From monitoring DNA polymerases in vitro to target search of CRISPR-Cas in vivo</i> 10:45 – 11:15 Dominik Wöll <i>Superresolution fluorescence microscopy enlightens functional, responsive microgels</i></p> <p>Contributed: 11:15 – 11:35 Ties van de Laar <i>Light from Within: Sensing weak strains and femto-Newton forces in single molecules</i> 11:35 – 11:55 Jacek Gapinski <i>Tailoring Fluorescence Correlation Spectroscopy for demanding applications</i> 11:55 – 12:15 Roderick Tas <i>Single-molecule microscopy at the ice-water interface to study 'antifreeze' proteins</i></p>
12:15-14:15	Lunch	
Plenaries	14:15 – 15:15 Johan Hofkens <i>Tba</i> 15:15 – 15:45 Anupam Sengupta <i>Of Microbes, Mechanics and Materials</i>	
Poster session	15:45 – 18:00 All posters, coffee and drinks	

15:15 – 18:30		
Day 3: 10. October 2019		
Parallel session 3.1: Young scientists 3.2: General 9:00-10:20	<u>Contributed</u> 09:00 – 09:20 Jens Allard <i>Dynamic and thermodynamic structural investigation of capillary suspensions</i> 09:20 – 09:40 Alina Arslanova <i>Sideways self-propulsion of Janus micro-rods: cargo transport</i> 09:40 – 10:00 Pietro Renato Avallone <i>Sol-gel transition in gelatin solutions by dynamic measurements: rate and concentration effects</i> 10:00 – 10:20 Fabio Giavazzi <i>Tracking-free one- and two-point microrheology of soft materials</i>	<u>Contributed</u> 9:00 – 9:20 Cliff Jones <i>The VGA-FLC: A grating-aligned ferroelectric liquid crystal electro-optic shutter for fast-switching and shock-resistant applications</i> 9:20 – 9:40 Antara Pal <i>Self-assembly and dynamics of ellipsoidal colloids and the influence of an external magnetic field studied by SAXS and XPCS</i> 9:40 – 10:00 Lingsam Tea <i>Stabilisation of water-water emulsions (PEO-dextran) by linear homo-polyelectrolytes</i> 10:00 – 10:20 Fajun Zhang <i>Dynamics of Arrested Phase Transition in Protein Solutions Studied by X-ray Photon Correlation Spectroscopy</i>
10:20-10:50	Coffee break	
Parallel session 3.3: Young scientists 3.4: General 10:50-12:30	<u>Contributed</u> 10:50 – 11:10 Anastasia Fanova <i>Electrostatic co-assembly of thermoresponsive double hydrophilic block polyelectrolytes</i> 11:10 – 11:30 Matt Hughes <i>The Importance of Building Block Stability in Hierarchically Structured Protein Networks</i> 11:30 – 11:50 An-Sofie Huysecom <i>Rheological insights in the behaviour of supramolecular double network hydrogels – the synergy investigated</i>	<u>Contributed</u> 10:50 – 11:10 Frederic Renou <i>Stable oil-in-water emulsions using an hydrophobically modified xanthan</i> 11:10 – 11:30 Julian Seifert <i>Tailor-made covalent nanocomposites based on magnetic nanoparticles and elastic polymers</i> 11:30 – 11:50 Theo Merland <i>Elaboration and characterization of aqueous colloidal suspensions of C60 fullerene stabilized by an amphiphilic copolymer</i>



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	<p>11:50 – 12:10 Vished Kumar <i>Ultra thin silica shell growth over AuNP for SERS based Detection</i></p> <p>12:10 – 12:30 Anastasia Murriliuk <i>Three-layer onion-like micelles with soft poly(lauryl acrylate) core: co-assembly and morphological transition</i></p>	<p>11:50 – 12:10 Martinez-Tong <i>Locally-resolved ionic conductivity of polymer electrolytes thin films</i></p>
12:30-14:00	Lunch	
Closing Plenary 14:00 – 15:00	<p>14:00 – 15:00 Gerhard Gompper <i>Active Filaments, Membranes, and Cells</i></p>	
15:00-15:30	Coffee break	
Joint session: General 15:30-18:05	<p>Invited:</p> <p>15:30 – 16:00 Mark Miller <i>Colloids on curved surfaces: migrating matter</i></p> <p>16:00 – 16:30 Dorleta Jimenez <i>3D SERS imaging of complex biological structures</i></p> <p>Contributed:</p> <p>16:45 – 17:05 Alessandro Gulotta <i>Complex relaxation behaviour in crowded solutions of eye lens proteins</i></p> <p>17:05 – 17:25 Domenico Larobina <i>Mucus microscopic dynamics under controlled strain</i></p> <p>17:25 – 17:45 Karin Koch <i>Nematic doping of nematics with particles of different anisotropies</i></p> <p>17:45 – 18:05 Roisin O’Connel <i>Designing Nanostructured Porous Polymeric Gas Sensors: from Solution Thermodynamics to Phase Inversion</i></p>	