

<b>Monday, September 19<sup>th</sup></b>	
08:00	Registration
09:00	Opening
09:30 – 10:15	<b>PL1 – VOIT</b> - Robust responsive polymersomes and nanocapsules for biomedical, biotechnological and microfluidic application: control of multifunctionality and membrane traffic
10:15 – 10:45	<b>KN1 – MIJANGOS</b> - Advances in pattern polymer nanostructures and innovative applications
10:45 – 11:10	<b>COFFEE BREAK</b>

11:10 – 11:30	<b>OR1 - BANERJEE</b> - Development And Properties Of Novel High-Temperature Nanostructured Polymer Blends From Rubber-Plastic Compositions
11:30 – 11:50	<b>OR2 - MORTIER</b> - A bio-inspired approach for nano-structured polymers with strong water adhesion (parahydrophobic properties) from 3,4-ethylenedioxyppyrrrole derivatives
11:50 – 12:10	<b>OR3 - DALMAS</b> - Tailored microstructure and mechanical properties of nanocomposite films made from polyacrylic/LDH hybrid latex suspensions synthesized by raft-mediated emulsion polymerization
12:10 – 12:30	<b>OR4 - SURIANO</b> - Micro/nanostructuring of advanced polymers via two photon polymerization for miniaturized devices
12:30 – 12:50	<b>OR5 - MEIKAP</b> - Impedance spectroscopy and current-voltage hysteresis of PVA-MWCNT film for memory device
12:50 – 13:10	<b>OR6 - BASU</b> - Electrical transport properties of polyvinyl alcohol - zinc selenide nanocomposite films
13:10 - 14.30	<b>LUNCH</b>
14.30 – 15:00	<b>KN2 – DUBOIS</b> - Polybenzoxazine-based thermosets: from nanocomposites to bio-based coatings
15:00 – 15:20	<b>OR7 – LAZZERI</b> - Effect of different additives on crystallization and properties of polylactic acid
15:20 – 15:40	<b>OR8 - FARRIS</b> - Pullulan-graphene nanocomposites with exceptional oxygen barrier performance
15:40 – 16:00	<b>OR9 – ZAHARIA</b> - Novel silk fibroin-magnetite nanocomposites for tissue engineering applications
16:00 – 17:00	<b>COFFEE BREAK – POSTER SESSION A</b>
17:00 – 17:30	<b>KN3 – CASSAGNAU</b> - Rheology and processing of highly filled thermoplastic polymers
17:30 – 17:50	<b>OR10 – BENES</b> - Ionic liquids as delaminating agents of layered fillers and their roles in polymer nanocomposites
17:50 – 18:10	<b>OR11 - CABANERO</b> - Dynamic polymer networks: from self-healing to processability, recyclability and more
18:10 – 18:30	<b>OR12 - TOSHCHEVIKOV</b> - Light induced ordering and deformation of liquid crystalline azobenzene polymer networks

<b>Tuesday, September 20</b>	
8:30 – 09:15	Registration
9:15 – 10:00	<b>PL2 – LUGLI</b> - Printing technologies for electronic applications
10:00 – 10:30	<b>KN4 - HEINRICH</b> - Design, Characterization and Modelling of Elastomeric Nanocomposites
10:30 – 11:00	<b>COFFEE BREAK</b>
11:00 – 11:20	<b>OR13 – STAMM</b> - Nanoporous polymers for high-energy-density batteries
11:20 – 11:40	<b>OR14 - MENDIZABAL</b> - Graphene based Composites for Electronic Devices
11:40 – 12:00	<b>OR15 - PFLEGER</b> -Photophysical behaviour of metallo-supramolecular polymers for optoelectronics
12:00 – 12: 20	<b>OR16 – LOMBARDI</b> - Study on static crack propagation resistance of reinforced elastomers
12:20 – 12:40	<b>OR17 – MASANIA</b> - Additive manufacturing of bio-inspired heterogeneous composites
12:40 – 13:00	<b>OR18 – SERGHEI</b> - Coupled mechanical-electrical investigations on elastomeric composite materials
13:00 - 14.30	<b>LUNCH</b>
14.30 – 15:00	<b>KN5 – Li</b> - Polymer Nanocomposites with Simultaneous Organic Nanodomains and Inorganic Nanoparticles
15:00 – 15:20	<b>OR19 – PICH</b> - Functional microgel-based fibers
15:20 – 15:40	<b>OR20 – KRAUSE</b> - Melt mixed polypropylene composites with a new carbon nanostructured crosslinked nanotube material
15:40 – 16:00	<b>OR21 – BEAUDOIN</b> - Controlled orientation of CdSe platelets in a stretchable composite
16:00 – 17:00	<b>COFFEE BREAK – POSTER SESSION B</b>
17:00 – 17:30	<b>KN6 – HALAGAN</b> - Modeling of complex polymer systems with cooperative dynamics and the dedicated massively-parallel analyze
17:30 – 17:50	<b>OR22 – LYULIN</b> - Computer simulations of carbon nanoparticles in polymer melts
17:50 – 18:10	<b>OR23 – INVERNIZZI</b> - Polyurethane elastomer composites as smart materials for energy harvesting in the shoes industry
18:10 – 18:30	<b>OR24 – LAFONT</b> - Multi-functional intrinsic self-healing polymeric composites

<b>Wednesday, September, 21</b>	
08:30 - 09:15	Registration
09:15 – 10:00	<b>PL3 – WINEY</b> – Polymer Melts in Nanoscale Confinement: Polymer Nanocomposites and Cylindrical Nanopores
10:00 – 10:30	<b>KN7 – GHIDINI</b> - Advanced ALM manufacturing of innovative materials in aerospace applications
10:30 – 11:00	<b>COFFEE BREAK</b>
11:00 – 11:20	<b>OR25 - RINALDI</b> - Innovative Nanocomposite materials for FDM: the effect of processing on final performance
11:20 – 11:40	<b>OR26 – NATALI</b> - Development and characterization of nanostructured phenolic impregnated carbon ablatives
11:40 – 12:00	<b>OR27 – PUPPI</b> - Development of customized polymeric scaffolds with multiscale porosity by a hybrid additive manufacturing technique
12:00 – 12:20	<b>OR28 – RIGHETTI</b> - Time and temperature evolution of the constrained amorphous nanophase in PHB and PLLA
12:20 – 12:40	<b>OR29 – IVAN</b> - Nanostructured amphiphilic polymer conetworks as nanoreactors and their nanohybrids for biomaterials and nanocatalysis
12:40 – 13:00	<b>OR30 – HOLDEN</b> - Characterisation of cellulose thin film interaction with protein using deuteration and neutron reflectometry
13:00 - 14.30	<b>LUNCH</b>
14.30 – 15:00	<b>KN9 – JIMENEZ</b> - Nano-biocomposites and nanostructured biopolymers for food packaging
15:00 – 15:20	<b>OR31 – VILASECA</b> - Mixing strategies for melt-processed cellulose biocomposites
15:20 – 15:40	<b>OR32 – VALDES</b> - Development and characterization of fish gelatin edible films reinforced with pomegranate by-products for food packaging applications
15:40 – 16:00	<b>OR33 – CACCIOTTI</b> - Ecosustainable systems based on compostable polymer and natural fillers for food packaging applications
16:00 – 16:30	<b>COFFEE BREAK</b>
16:30 – 17:00	<b>KN8 – BERGLUND</b> - Cellulose nanomaterials with both structural and functional performance
17:00 – 17:20	<b>OR34 – DELGADO</b> - Cellulose micro and nanofibers reinforced polyvinyl alcohol composites: a technical and environmental approach
17:20 – 17:40	<b>OR35 – FORTUNATI</b> - Sunflower stalks as novel sources of cellulose nanofibrils and nanocrystals and their effect on wheat gluten based nanocomposites
17:40 – 18:00	<b>OR36 – CABANE</b> - Functional lignocellulosic materials: engineering smart bio-hybrids from a natural anisotropic scaffold
18:00	Conclusion – Announcement of ECNP2018

## POSTER session A

**PA1:** J. Stejskal, P. Bober, M. Trchova “Conducting Polyaniline Cryogels”

**PA2:** M.R. Lazzo, S. Scorrano, L. Mergola, M.P. Di Bello, R. Del Sole, G. Vasapollo  
“Development Of Molecularly Imprinted Membranes For The Screening Of 2-Deoxyadenosine In Human Urine”

**PA3:** M. R. Lazzo, L. Mergola, S. Scorrano, M. P. Di Bello, E. Bloise, R. Del Sole, G. Vasapollo,  
“Preparation Of Novel Molecularly Imprinted Polymers For Mercury Removal From Drinking Water”

**PA4:** A. Kirillova, C. Marschelke, and A. Synytska, “Hybrid Hairy Janus Particles As Novel Building Blocks For Active Surfaces And Interfaces”

**PA5:** C. Marschelke, A. Matura, and A. Synytska, “Stimuli-Responsive Hairy Particles For Enzymatic Catalysis In Bulk And At Interfaces”

**PA6:** M. Schwarzer, A. Synytska, “Anti-Icing And De-Icing Surfaces Based On Core-Shell Particles As Building Blocks”

**PA7:** X. Liu, D. Appelhans, B. Iyisan, B. Voit, “Layer-by-layer Assembly of Polymersomes and Polyelectrolytes on Planar Substrates and Microsized Particles”

**PA8:** D. Brugat, F.X. Espinach, H. Oliver-Ortega, Q. Tarrés, P. Mutjé, M. Delgado-Aguilar,  
“Magnetite Nanoparticles As Nanopaper Additive For The Development Of Strong, Lightweight And Flat Loudspeakers”

**PA9:** T. Messin, N. Follain, A. Guinault, G. Miquelard-Garnier, C. Sollogoub, S. Marais,  
“Impact Of The Multilayer Morphology Of A PC/MXD6 Assembly On Barrier Performances”

**PA10:** I. Sapurina, J. Stejskal, “Architectures Of Silver Nanoparticles Fabricated From Silver Salt During Oxidative Polymerization Of Aniline”

**PA11:** D. Guzman, B. Mateu, X. Fernandez-Francos, X. Ramis, A. Serra, “New Thermosets From Cycloaliphatic Epoxy Resin By Thiol-Epoxy Click Reaction”

**PA12:** M. T. De Angelis, A. Paciello, M. G. Santonicola, “Macromolecular Design And Electrochemical Properties Of Ph-Responsive Polycationic Hydrogels”

**PA13:** M. Ghaani, S. Farris, “MIP Electrochemical Sensor For The Quantification Of Primary Aromatic Amines”

- PA14:** A. Shajkumar, B. Nandan, V. Albrecht, M-H Lee, M. Stamm, A. Horechyy, "Au@SiO<sub>2</sub>@PSS CATALYST PREPARED VIA BLOCK COPOLYMER TEMPLATE APPROACH: CATALYTIC STUDIES"
- PA15:** A. Famengo, A. Ferrario, S. Boldrini, S. Battiston, S. Fiameni, C. Pagura, M. Fabrizio, "Polyaniline-carbon nanohorn composites as thermoelectric materials"
- PA16:** D. Ivaneyko, V. Toshchevnikov, M. Saphiannikova, "Dynamics Of Magneto-Sensitive Elastomers: A Coarse-Grained Network Model"
- PA17:** V. Levchenko, G. Boiteux, E. Beyou, P. Alcouffe, A. Serghei, "Polymeric Materials With Giant Permittivity"
- PA18:** A. Houachtia, G. Boiteux, J.-F. Gerard, A. Serghei, "Dynamics And Phase Transitions Of Attograms And Zeptograms Of Polymers"
- PA19:** A. Belmonte, X. Fernandez-Francos, S. De la Flor, A. Serra, "Characterization Of Sequential Dual-Curing Thiol-Epoxy Systems: Processing And Shape-Memory Applications"
- PA20:** S. Carrasco-Hernandez, L. Cano, J. Gutierrez, A. Tercjak, "Reversibility Study Of Polymer Dispersed Liquid Crystals Based On PE-b-PEO Block Copolymer And Liquid Crystals"
- PA21:** A. L. Christie, J. A. Wilson, A. Kassim, A. P. Dove, "One Pot Block Copolymer Synthesis And Self-Assembly"
- PA22:** F. Cecchini "A D.O.E. analysis of the rheological properties of non-Newtonian fluids of different compositions"
- PB23:** K. Jariyavidyanont, W. Focke, R. Androsch "Crystallization Kinetics Of Polyamide 11 Based Nanocomposites At Processing-Relevant Cooling Conditions"
- PA24:** W. Yang, J. S. Owczarek, E. Fortunati, M. Kozanecki, J. M. Kenny, L. Torre, D. Puglia, "Polyvinyl Alcohol/Chitosan Hydrogels Incorporating Antioxidant And Antibacterial Lignin Nanoparticles"
- PA25:** W. Yang, E. Fortunati, L. Torre, J. M. Kenny, D. Puglia, "A Comparative Study: Alkali Nanolignin Isolated By HCl, H<sub>2</sub>SO<sub>4</sub> And H<sub>3</sub>PO<sub>4</sub>"
- PA26:** P. Proposito, S. Melino, F. Mochi, L. Bruno, F. De Matteis, M. Casalboni, F. R. Lamastra, F. Nanni, R. Congestri, "DIATOM FRUSTULES FOR PHOTOACTIVE NANOSTRUCTURED MATERIAL FABRICATION"

## POSTER session B

**PB1:** I-C Radu, C. Zaharia, P. O. Stanescu, E. Vasile, A. Hudita, B. Galateanu, C. Andronescu, H. Iovu, "Nanocomposites Based On Inorganic Clays And Silk Fibroin For Potential Tissue Engineering Applications"

**PB2:** F. Muscas, A. Marcos-Fernandez, A. J. Lopez Galisteo, L. Peponi, A. Urena, "Development Of New Thermally-Activated Self-Healing Thermoplastic Polyurethane"

**PB3:** C. Wan, S. Li, S. Wang, "Core-Shell Structured Carbon Nanoparticles Derived From Light Pyrolysis Of Waste Tires"

**PB4:** V. P. Singh, G. S. Kapur, Veena Choudhary, "Rheological Behavior Of HDPE/Natural Needle Like Clay Nanocomposites Under Shear And Extensional Flow"

**PB5:** C. A. Cozzolino, G. Castelli, S. Trabattoni, S. Farris, "Influence Of Colloidal Silica Nanoparticles On Pullulan-Coated BOPP Film"

**PB6:** C. Rovera, C. A. Cozzolino, D. Romano, S. Farris, "Cellulose Nanocrystals Obtained From *Komagataeibacter Sucrofermentans* Through A Top-Down Chemical Treatment"

**PB7:** R. Suriano, G. Griffini, M. Levi, S. Turri, "Algae Biomass Valorization As Materials Fillers For Biocomposites And 3D Printing Pastes"

**PB8:** M. Triantou, N. Todorova, T. Vaimakis, C. Trapalis, "Morphology And Thermomechanical Performance Of Aged Graphene/Polypropylene Nanocomposites"

**PB9:** K. Stafin, A. Leszczyńska, K. Pielichowski, "Microstructure And Crystallization Behavior Of POSS-Containing Thermoplastic Polyurethane Nanocomposite"

**PB10:** V. Cherubini, M. Rinaldi, F.R. Lamastra, F. Nanni " "Synthesis and characterization of nanoparticle reinforced PEI foams"

**PB11:** A. Ivanoska-Dacikj, G. Bogoeva-Gaceva, S. Valić, S. Wiesner, G. Heinrich, "Hybrid Nanofiller Networking In Natural Rubber: Experiment And Theory"

**PB12:** V. S. Vo, S. Mahouche-Chergui, V-H Nguyen, S. Naili, B. Carbonnier, "Elaboration And Characterization Of Bio-Based Epoxy/Clay Nanocomposites"

**PB13:** D. Carnelli, R. Libanori, A. R. Studart, "Composites Reinforced Via Mechanical Interlocking Of Surface-Roughened Microplatelets Within Ductile And Brittle Matrices"

**PB14:** T. P. Niebel, D. Carnelli, R. Libanori, A. R. Studart, "Hierarchically-Roughened Microplatelets Enhance The Strength And Ductility Of Nacre-Inspired Composites"

- PB15:** B. Mico-Vicent, F.M. Martinez-Verdu, M.C. Garrigos, A. Jimenez, “Which 3D Printing Technology Is Better For Using Natural Hybrid Nanopigments On Biopolymers?”
- PB16:** A. Hajian, L. Berglund, “Preparation Of Carbon Nanotube - Cellulose Hybrids For Electrical And Mechanical Performance”
- PB17:** Q. Fu, L. Berglund “Optically Transparent Wood”
- PB18:** L. Sorrentino, C. Bellini, D. Micheli, R. Pastore, A. Vricella, M. Marchetti, F. Santoni, M. Albano, Giulio Rubini, A. Delfini, F. Del Sette “Manufacturing And Testing Of An ABS – Carbon Isogrid Structure”
- PB19:** D. Dupenne, T. Pierre, A. Lonjon, E. Dantras “Metallization Of CFRP Surface Via A Conductive Underlayer”
- PB20:** D. Aranguren Van Egmond, S. Siarov, C. Semprimoschnig, U. Lafont, “Properties Of 3D Printed PEEK Processed By Fused Filament Fabrication”
- PB21:** M. Lutz, A. Nel “Utilizing Polysaccharide Nanowhiskers As Reinforcing Agents In Nanocomposites”
- PB22:** I. Ivaneiko, V. Toshchevnikov, K.W. Stockelhuber, M. Saphiannikova, G.Heinrich “Superposition Approach To The Dynamical Behavior Of Reinforced Rubbers”
- PB23:** M. Perchacz, H. Beneš, R. K. Donato, A. Zhigunov, M. Serkis, E. Pavlova, P. Ecorchard, “Ionic Liquids As Multifunctional Agents For Epoxy- Graphite And Epoxy-Silica Hybrid Materials”
- PB24:** J. Bayer, L. Granda, J.A. Méndez, F. Vilaseca, “Rubber Fusion of Wood Plastic Composite, New Functional Green Material for Building Applications. Mechanical simulation for Decking and Sound Barriers”
- PB25:** S. Mbarek, B. Imen, A. Bruno, S. Ezzedine, “A Physicochemical Characterization Of Nanocomposite Based On Recycled Expanded Ps Reinforced With Clay”
- PB26:** K. Jaksik, G. Seide, T. Gries “Melt-Spinning Of Polyamide 6/Ferrite-Compounds: Spinning Behavior And Mechanical Properties As A Function Of The Ferrite Surface-Modification”