

# MILAN POLYMER DAYS 18<sup>TH</sup>-20<sup>TH</sup> JUNE 2025

[www.milanpolymerdays.org](http://www.milanpolymerdays.org)



## DAY 1 – JUNE 18<sup>TH</sup>, 2025

9:30 AM		<b>REGISTRATION</b>
10:30 AM		<b>OPENING CEREMONY</b>
		<b>E. Ranucci</b> , University of Milan (IT), Congress Chair
		<b>L. Lay</b> , University of Milan (I), Head of the Department of Chemistry
<b>1<sup>st</sup> Session</b> – Chairpersons: <b>E. Ranucci</b> and <b>L. Lay</b> , University of Milan (IT)		
11:00 AM	KN	<b>E. Dalcaneale</b> , University of Parma (IT). <a href="#">Non-covalent dynamic polymer networks</a>
11:45 AM	IL	<b>M. Guerre</b> , Université de Toulouse, CNRS (FR). <a href="#">Disulfide-based vitrimers: from mechanistic insight to industrial implementation</a>
12:05 PM	IL	<b>M. Paiva</b> , University of Minho (PT). <a href="#">PEEK composites with carbon nanoparticles: processing, properties and functionalities</a>
12:25 PM	IL	<b>D. Montarnal</b> , University of Lion 1, CNRS (FR). <a href="#">Improving high shear processability of dynamic covalent networks</a>
12:45 PM		<b>Lunch time and poster session</b>
<b>2<sup>nd</sup> Session</b> - Chairpersons: <b>E. Dalcaneale</b> , University of Parma (IT) and <b>M.C. Paiva</b> , University of Minho (PT)		
01:45 PM	KN	<b>R. Nicolaÿ</b> , École supérieure de physique et de chimie industrielles de la Ville de Paris (FR). <a href="#">Using phase separation to design recyclable and self-healing materials</a>
02:30 PM	IL	<b>C. Pirola</b> , University of Milan (IT). <a href="#">Experimental study and artificial intelligence modeling of solvent separation processes for the sustainable recycling of polyamide-based textile waste</a>
02:50 PM	IL	<b>P. Georgopanos</b> , Helmholtz-Zentrum Hereon (DE). <a href="#">Sustainable polymer synthesis supported by digital twins for composite and membrane applications</a>
03:10 PM	IL	<b>J. Raynaud</b> , University of Lyon 1, CNRS (FR). <a href="#">Eco-design and circularity for silicones</a>
03:30 PM	OC	<b>L. Riva</b> , Polytechnic University of Milan (IT). <a href="#">Turning textile waste into high-performance nanostructured cellulose-based aerogels for clean water</a>
03:45 PM		<b>Coffee break</b>
<b>3<sup>rd</sup> Session</b> - Chairpersons: <b>C. Pirola</b> , University of Milan (IT) and <b>R. Nicolaÿ</b> , ESPCI (FR)		
04:05 PM	IL	<b>A. Sousa</b> , University of Aveiro (PT). <a href="#">Greener solvent-driven strategies for closed-loop recycling of complex polymers</a>
04:25 PM	IL	<b>Y. Marien</b> , Ghent University (BE). <a href="#">The strength of multi-scale in silico tools for polymer design and recycling</a>
04:45 PM	IL	<b>E. Deniau</b> , Le Mans Université (FR). <a href="#">Core-shell microgel@MOF colloids for selective CO<sub>2</sub> capture</a>
05:05 PM	OC	<b>T. Bardelli</b> , NETZSCH-Gerätebau GmbH, Verona, (IT). <a href="#">Understanding and optimizing the quality of recycled polypropylene (PP) through thermal analysis and rheology</a>
05:25 PM	OC	<b>F. Bertocchini</b> , University of Milan (IT). <a href="#">Plastic degradation by wax worm enzymes: molecular insights from structural analysis</a>
05:40 PM	MYOC	<b>F. Valentini</b> , University of Trento (IT). <a href="#">Recycling of phenolic resins for household application</a>
05:55 PM		<b>END of SESSION</b>
07:00 PM		<b>APERICENA</b>

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## DAY 2, JUNE 19<sup>TH</sup>, 2025

**4<sup>th</sup> Session** - Chairpersons: **E. Ranucci**, University of Milan (IT), **D. Portinha**, Université de Lyon, INSA Lyon (FR)

09:00 AM	KN	<b>C. De Rosa</b> , University of Naples "Federico II" (IT). From polyolefins to sustainable polymers through molecular catalysis: a tool for polymer engineering
09:45 AM	IL	<b>A. Esposito</b> , University of Rouen (FR). Critical cooling rate of fast-crystallizing polyesters: the example of poly (alkylene trans-1,4-cyclohexanedicarboxylate)
10:05 AM	IL	<b>A. Li Volsi</b> , Exactmer Ltd (GB). Liquid phase manufacture of exact polymers
10:25 AM	IL	<b>L. Valentini</b> , University of Perugia (IT). Silk engineer: innovating new materials
10:45 AM	OC	<b>L. Maddalena</b> , Polytechnic University of Turin (IT). Polyelectrolytes complexation as structural tool for the preparation of self-standing and flame retardant bio sourced composites

11:00 AM **Coffee break**

**5<sup>th</sup> Session** - Chairpersons: **C. Derosa**, University of Naples Federico II (IT), **L. Valentini**, University of Perugia (IT)

11:30 AM	IL	<b>R. Cavalli</b> , University of Turin (IT). Polysaccharides for the design of fast and sustained release buccal films
12:00 PM	IL	<b>D. Chan-Seng</b> , Université de Strasbourg, CNRS (FR). Macromolecular engineering to tune materials for biomedical applications
12:20 PM	IL	<b>F. Cellesi</b> , Polytechnic University of Milan (IT). Polymer design for cell and drug microencapsulation
12:40 PM	IL	<b>L. Gibot</b> , Université de Toulouse, CNRS (FR). Polymer nanovectors to improve efficacy of photodynamic therapy: applications to antitumor strategies and regenerative medicine

01:00 PM **Lunch time and poster session**

**6<sup>th</sup> Session** - Chairpersons: **R. Cavalli**, University of Turin (IT), **M. Coletti**, TA Waters Italia (IT)

02:15 PM	IL	<b>N. Mauro</b> , University of Palermo (IT). Interconnected hybrid nanogel network for precision breast cancer ablation: combining multimodal imaging, sensing, and phototherapy
02:35 PM	IL	<b>I. Zaborniak</b> , Rzeszow University of Technology (PL). Designing drug delivery systems by atom transfer radical polymerization
02:55 PM	OC	<b>N. Griffete</b> , Sorbonne University (FR). Molecularly imprinted polymer for cancer imaging and therapy
03:10 PM	OC	<b>N. d' Avanzo</b> , University of Catanzaro "Magna Graecia" (IT). Electrospun polymeric membranes with embedded nanovesicles for topical inflammation treatment

03:25 PM **Coffee break**

**7<sup>th</sup> Session** - Chairpersons: **E. Ranucci**, University of Milan (IT), **N. Mauro**, University of Palermo (IT)

03:55 PM	IL	<b>M. Dobrzyńska-Mizera</b> , Poznan University of Technology (PL). Analysis of in vivo bioresorption kinetics in advanced polylactide-based composites
04:15 PM	OC	<b>M. Argenziano</b> , University of Turin (IT). Polysaccharide-shelled nanobubbles as innovative nanoplatform to overcome cancer chemoresistance
04:30 PM	OC	<b>I. Bonadies</b> , CNR, IPCB, Pozzuoli (IT). Designing 3D-structures for nanomedicine based on electrospun nanofibers
04:45 PM	IL	<b>L. de Smet</b> , Wageningen University (NL). Polyester-based polyelectrolyte complexes
05:05 PM	MYOC	<b>F. Ferruti</b> , Lignoflow Technologies AB, Stockholm, Sweden (SE). Lignin as platform material for safe and sustainable built environments
05:20 PM	MYOC	<b>F. Moretti</b> , University of Trieste (IT). Optimizing injection molding of polymeric nanocomposites via d-optimal design of experiments
05:35 PM	MYOC	<b>M. Klamut</b> , Rzeszow University of Technology (PL). Shedding new light on novel photocatalytic systems for photo-mediated atom transfer radical polymerization

05:50 PM **END of SESSION**

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## DAY 3, JUNE 20<sup>TH</sup>, 2025

8 <sup>th</sup> Session - Chairpersons <b>E. Ranucci</b> , <i>University of Milan (IT)</i> , <b>A. Dorigato</b> , <i>University of Trento (IT)</i>		
09:00 AM	KN	<b>P. Bober</b> , Czech Academy of Sciences, Institute of Macromolecular Chemistry (CZ). <a href="#">Conducting polymers aerogels and carbogels: preparation and applications</a>
09:45 AM	IL	<b>S. Lanzalaco</b> , Polytechnic University of Catalonia (ES). <a href="#">Biopolymers and electrochemistry: a powerful duo for sustainable development</a>
10:05 AM	OC	<b>O. Santoro</b> , University of Insubria (IT). <a href="#">Tuning thermal and mechanical properties of ABA copolymers from elastomers to thermoplastics</a>
10:20 AM	MYOC	<b>S. Treccani</b> , University of Milan (IT). <a href="#">Polyamidoamine-based photostabilizers for cotton fabrics</a>
10:35 AM	MYOC	<b>C. Bussi</b> , University of Eastern Piemonte (IT). <a href="#">Optimisation of synthesis parameters to enhance textural properties of HCPs derived from polystyrene waste</a>
10:50 AM	Coffee break	
9 <sup>th</sup> Session - Chairpersons: <b>P. Bober</b> , <i>Czech Academy of Sciences, Czech Republic</i> , <b>A. Caselli</b> , <i>University of Milan (IT)</i>		
11:20 AM	IL	<b>E. Guillen-Burrieza</b> , Polytechnic University of Catalonia (ES). <a href="#">Polymeric materials and membranes, it's a match!</a>
11:40 AM	IL	<b>S. Pérez-Rafael</b> , Polytechnic University of Catalonia (ES). <a href="#">Biomass-derived polymers and their valorization for eco-friendly material design</a>
12:00 PM	IL	<b>D. Portinha</b> , University of Lyon 1, INSA Lyon (FR). <a href="#">Chemical strategies towards “greener” silicone polymers and materials</a>
12:20 PM	OC	<b>A. Rossetti</b> , Polytechnic University of Milan (IT). <a href="#">Harnessing polyethyleneimine in 3D-printing for tunable heterogeneous catalysts</a>
12:35 PM	MYOC	<b>A. Tauro</b> , University of Trento (IT). <a href="#">Development of eco-sustainable fully bio-based multifunctional compounds and textiles</a>
12:50 PM	MYOC	<b>M. Venturi</b> , University of Bologna (IT). <a href="#">Non-isothermal crystallization of biobased aromatic polyesters: The role of different diacid subunits</a>
01:05 PM	MYOC	<b>M. Arioli</b> , University of Milan (IT). <a href="#">Enhancing the flame resistance of cotton fabrics through targeted chemical functionalization</a>
01:20 PM	Lunch time	
10 <sup>th</sup> Session - Chairpersons: <b>Elisabetta Ranucci</b> , <i>University of Milan (IT)</i> , <b>Orlando Santoro</b> , <i>University of Insubria (IT)</i>		
02:35 PM	IL	<b>T. Krasia-Christoforou</b> , University of Cyprus (GR). <a href="#">Functionalized polymer-based fibrous materials by means of electrospinning</a>
02:55 PM	OC	<b>M. Coletti</b> , TA-Instrument, Waters (IT). <a href="#">High temperature fatigue performance evaluation of fibre-reinforced polymer (FRP) composites utilizing monotonic, and dynamic mechanical analysis characterization</a>
03:15 PM	OC	<b>D. Callegari</b> , University of Pavia (IT). <a href="#">Multi-hydrogen bond-based self-healing polymer separator for next-generation lithium batteries</a>
03:30 PM	MYOC	<b>M. Pierigè</b> , CNR, ICCOM, Pisa (IT). <a href="#">Probing cotton's thermo-oxidative behavior: a joint solid-state NMR and EPR investigation</a>
03:45 PM	MYOC	<b>A. Rispo</b> , University of Naples “Federico II” (IT). <a href="#">Compatibilization of isotactic polypropylene (iPP) and polyethylene (PE) with PP-based block copolymers</a>
04:00 PM	MYOC	<b>H. Zhao</b> , Polytechnic University of Turin (IT). <a href="#">Crystallization of polycaprolactone within nanopapers based on graphene-related materials</a>
04:15 PM	PRIZE	<b>A. Coatti</b> , University of Bologna (IT). <a href="#">Furan-based polyester with inherent antimicrobial properties for automotive applications</a>
04:30 PM	END of SESSION, AWARD ANNOUNCEMENTS and CLOSING REMARKS	

