

# Milan Polymer Days 1 - 3 July 2026

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## PROGRAM OF THE ORAL COMMUNICATIONS

Keynotes (KN), invited lectures (IL), short oral communications (OC) and MIPOL Young oral communications (MYOC)

The times refer to the local time in Milan, Italy, i.e. CEST (UTC + 2)

### Day 1 – 1<sup>st</sup> July, 2026

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>L. De Cola</b> , University of Milan (IT). Hybrid hydrogel: from drug release to coral settlement
11:45 AM	IL	<b>I. Fasolino</b> , Italian National Research Council (CNR-IPCB), Napoli, (IT). Innovative polymer-based biomaterials driving progress in tissue engineering and disease care
12:05 PM	IL	<b>E. Jäger</b> , Czech Academy of Sciences, Czech Republic (CZ). Advanced polymer nano- and microparticles: stimuli-controlled delivery in cancer therapy and beyond
12:25 PM	IL	<b>D. Maggioni</b> , University of Milan (IT). Polyamidoamine–Ru–stabilized gold nanostars for enhanced singlet oxygen generation in photodynamic therapy
12:45 PM	<b>Lunch time and poster session</b>	
		<b>2<sup>nd</sup> Session</b> - Chairpersons: <b>M. Coletti</b> , Waters, TA Instruments (IT) and <b>R. Mezzenga</b> , ETH Zurich (CH)
13:45 PM	IL	<b>I. Zaborniak</b> , Rzeszow University of Technology (PL). Tailor-made pH-responsive branched polymers for controlled release systems
14:05 PM	IL	<b>N. D'Avanzo</b> , University of Catanzaro "Magna Graecia" (IT). Polymers meet lipids: hybrid nanoparticles for next generation precision medicine
14:25 PM	IL	<b>R. Cavalli</b> , University of Turin (IT). The key role of polymers in the manufacturing development of granules for pediatric formulations
14:55 PM	MYOC	<b>G. Caorsi</b> , University of Milan (IT). Ecotoxicological evaluation of PVA-based dishwasher pods on Danio rerio embryos: the role of formulation additives in commercial products
15:10 PM	MYOC	<b>F. Shohraty</b> , Helmholtz-Zentrum Hereon, Germany (DE). Investigation of synthesis of N-Isopropylacrylamide-Based Hydrogels with low contents of acidic comonomers for scaling up purposes
15:25 PM	<b>Coffee break</b>	
		<b>3<sup>rd</sup> Session</b> - Chairpersons: <b>M. Ortenzi</b> , University of Milan (IT) and <b>A. Dorigato</b> , University of Trento (IT)
15:55 PM	IL	<b>F. Bonnet</b> , University of Lille (FR). PLLA-based biocomposites produced in one step synthesis from the monomer by TP-RTM
16:15 PM	OC	<b>M. Coletti</b> , Waters, TA Instruments (IT). Evaluation of quick changes in polymer rheology through high frequency CHIRP on an SMT rheometer
16:35 PM	MYOC	<b>I. Efimov</b> , University of Ghent (BE). Model-based design of radical ring-opening terpolymerization

16:50 PM	MYOC	<b>M. Sroka</b> , Rzeszow University of Technology (PL). Cationic sucrose-containing polymers for modified release drug delivery systems
17:05 PM	MYOC	<b>C. Elian</b> , ESPCI, Paris (FR). Photoactivable alizarin and eugenol-based materials for antibacterial applications
17:20 PM	<b>END of SESSION</b>	
19:00 PM	<b>APERICENA</b>	

## DAY 2, July 2<sup>nd</sup>, 2026

<b>4<sup>th</sup> Session</b> - Chairpersons: <b>E. Ranucci</b> and <b>L. De Cola</b> , <i>University of Milan (IT)</i>		
09:00 AM	KN	<b>R. Mezzenga</b> , ETH Zurich (CH). Amyloid-metal hybrids for health and environmental remediation
09:45 AM	IL	<b>V. Bernardo Garcia</b> , University of Valladolid (ES). Designing thermoplastic nanocellular polymers: linking polymer nanostructure to thermal and mechanical performance
10:05 AM	IL	<b>N. Kasmi</b> , Avantium Renewable Polymers (NL). Engineering crystallization kinetics in poly(ethylene furanoate) (PEF) through trace-level modulation
10:25 AM	OC	<b>F. Ferruti</b> , University of Milan-Bicocca (IT). Sustainable elastomeric composites reinforced with selectively surface-functionalised kraft lignin nanoparticles
10:40 AM	<b>Coffee break</b>	
<b>5<sup>th</sup> Session</b> - Chairpersons: <b>A. Caselli</b> and <b>S. Gazzotti</b> , <i>University of Milan (IT)</i>		
11:10 AM	IL	<b>D. Pahovnik</b> , National Institute of Chemistry (SI). Ring- opening polymerization of N-carboxyanhydrides: from hybrid block copolymers to cross-linked synthetic polypeptides
11:30 AM	OC	<b>C. Balera Trombini</b> , Federal University of Viçosa (BR). Controlled formation of enteric methacrylate copolymer nanoparticles by rapid micromixing using an impinging jet mixer
11:45 AM	MYOC	<b>A. Tauro</b> , University of Trento (IT). Development of eco-sustainable PLA fibers from multifunctional compounds with bio-based additives
12:00 PM	MYOC	<b>N. Truschelli</b> , University of Trento (IT). Development of novel self-healing adhesives for structural composites
12:15 PM	MYOC	<b>E. Pashayev</b> , Helmholtz-Zentrum Hereon (DE). Development of CO <sub>2</sub> polymer membrane adsorbers for direct air capture applications
12:30 PM	<b>Lunch time and poster session</b>	
<b>6<sup>th</sup> Session</b> – Chairpersons: <b>M. Ortenzi</b> , <i>University of Milan (IT)</i> and <b>M.L. Di Lorenzo</b> , <i>Italian National Research Council (CNR-IPCB), Pozzuoli (IT)</i>		
13:30 PM	IL	<b>S. Iannace</b> , Italian National Research Council (SCITEC-CNR), Milan (IT). Thermosetting foams from vegetable oil via microwave-assisted processing
13:50 PM	OC	<b>R. Tavernier</b> , University of Lyon (FR). Safe and sustainable by design phenolic resins, toward a continuous synthesis process
14:05 PM	MYOC	<b>G. Boni</b> , Italian National Research Council (SCITEC-CNR), Milan (IT). A novel chemical recycling process for PET waste: ammonium metallates as efficient and sustainable catalysts
14:20 PM	IL	<b>S. Pizzanelli</b> , Italian National Research Council (CNR-ICCOM), Pisa (IT). The flame-retardant mechanism of $\alpha$ -amino acid-derived polyamidoamines on cotton: insights from magnetic resonance spectroscopies
14:40 PM	IL	<b>M. Arioli</b> , University of Milan (IT). Phosphorus- nitrogen- and sulfur (P/N/S)-containing oligomer for enhanced flame retardancy of cotton
15:00 PM	MYOC	<b>I. Climaco</b> , University of Naples "Federico II" (IT). Sustainable epoxy coatings containing rosin-modified TiO <sub>2</sub> and alkylsilanes with antifouling and flame retardant properties
15:15 PM	MYOC	<b>N. Li</b> , Polytechnic University of Turin (IT). Polyelectrolyte-based coatings for flame retardant applications
15:30 PM	<b>Coffee break</b>	

<b>7<sup>th</sup> Session</b> – Chairpersons: <b>S. Gazzotti</b> , <i>University of Milan (IT)</i> and <b>F. Ferruti</b> , <i>University of Milan-Bicocca (IT)</i>		
16:00 PM	IL	<b>H. Thunman</b> , Chalmers University of Technology (SE). From waste to monomers: a system perspective on Carbon and Material balances for circular polymer production
16:20 PM	IL	<b>A. Veloso Fernandez</b> , University of the Basque Country (ES). Multifunctional electrospun membranes for water purification strategies
16:40 PM	OC	<b>M. Maturi</b> , University of Cadiz (ES). Itaconic acid for high-performance and sustainable photocurable polymers: from molecular design to additive manufacturing
16:55 PM	MYOC	<b>V. Fabbrizio</b> , University of Milan (IT). From water vapor to soil fertility: multifunctional superabsorbent polymers for sustainable agriculture
17:10 PM	MYOC	<b>E. Marelli</b> , University of Insubria (IT). Lignin-derived SyMA copolymers prepared by ARGET ATRP for sustainable gas barrier improvement in BIRR formulations
17:25 PM	MYOC	<b>K. Kisiel</b> , Rzeszow University of Technology (PL). Investigation of carbon quantum dots in photoinduced ATRP: strengths and limitations
17:40 PM	MYOC	<b>A. Valverde Gonzales</b> , ESPCI de la Ville de Paris (FR). Supramolecular materials from trisureas-based polymers self-assembly: how big can it get?
17:55 PM	MYOC	<b>M. Klamut</b> , Rzeszow University of Technology (PL). Vitamin B <sub>2</sub> as a polymerization switch: why control holds and why it fails in metal-free ATRP
18:10 PM	<b>END of SESSION</b>	

## DAY 3, July 3<sup>rd</sup>, 2026

<b>8<sup>th</sup> Session</b> – Chairpersons: <b>E. Ranucci</b> , <i>University of Milan (IT)</i> and <b>S. Iannace</b> , <i>Italian National Research Council (SCITEC-CNR), Milan (IT)</i>		
09:00 AM	KN	<b>M.L. Di Lorenzo</b> , Italian National Research Council (CNR-IPCB), Pozzuoli (IT). Tailored crystallization kinetics: a tool to engineer properties of poly(L-lactic acid)
09:45 AM	IL	<b>A. Sanz de Leon</b> , University of Cadiz (ES). Sustainable polymers and polymer-based composites for additive manufacturing
10:05 AM	IL	<b>P. Georgopanos</b> , Helmholtz-Zentrum Hereon (DE). Digitally supported synthesis and fabrication of polymer-based membrane adsorbers for carbon capture
10:25 AM	OC	<b>L. Riva</b> , Polytechnic University of Milan (IT). Environmental safety of functionalized nanocellulose in marine systems: biological responses and interaction with venlafaxine
10:40 AM	<b>Coffee break</b>	
<b>9<sup>th</sup> Session</b> - Chairpersons: <b>E. Ranucci</b> and <b>J. Alongi</b> , <i>University of Milan (IT)</i>		
11:10 AM	IL	<b>A. Dorigato</b> , University of Trento (IT). Towards smart thermoplastic composites with self-healing properties
11:30 AM	IL	<b>D. Vuluga</b> , INSA-ROUEN (FR). Organolithium chemistry in continuous-flow miniaturized reactors: towards the synthesis of polymeric materials
11:50 AM	IL	<b>R. Pinalli</b> , University of Parma (IT). Dynamically crosslinked polyethylene-like materials with reversible self-reporting properties
12:10 PM	IL	<b>E. Tomšic</b> , Czech Academy of Sciences (CZ). Acid-assisted polymerization: novel synthetic route of semi-conducting polymer preparation
12:30 PM	OC	<b>A. Rubin Pedrazzo</b> , Anton Paar Italia s.r.l. (IT). Integrated analytical techniques for advanced polymer characterization: combining FTIR, rheo-Raman, and DSC
12:45 PM	<b>END of SESSION, AWARD ANNOUNCEMENTS and CLOSING REMARKS</b>	

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## POSTER LIST

P1	<b>C. Arculeo</b> , University of Milan (IT). Soft materials for fragile heritage: polyamidoamine hydrogels in paper deacidification
P2	<b>M. Argenziano</b> , University of Turin (IT). Development of polymeric orodispersible films for sustained buccal delivery of apomorphine
P3	<b>M. Azzarone</b> , University of Milan (IT). Synthesis of innovative nanocellulose hydrogels for the conservation of cellulosic cultural heritage materials
P4	<b>B. L. Bona</b> , University of Milan (IT). Advanced shape memory polyurethanes for tendon tissue regeneration
P5	<b>M. Cavalleri</b> , Italian National Research Council (SCITEC-CNR) (IT). From food waste to sustainable polymers: bio-based poly(butylene succinate), copolymers, and blends for circular food packaging
P6	<b>C. Cremonesi</b> , University of Milan (IT). Physicochemical mechanisms of flocculation/coagulation for plastic removal in wastewater treatment plans
P7	<b>N. Panza</b> , University of Milan (IT). GRECALE BIOPASS: GREen Chemistry Action in textile - BIO Polymers, AdditiveS, finiShing
P8	<b>Y. Perez-Milan</b> , University of Valladolid (ES). Production and characterization of rPET-based microcellular polymers
P9	<b>C. Ricci</b> , University of Milan (IT). Magnetic polymeric scaffolds for the mechanotransduction stimulation in tissue regeneration
P10	<b>H. Zhang</b> , Harbin University (CN). Hybrid organic-inorganic polyelectrolyte coating to reduce the flammability of flexible polyurethane foam