Plenary lecture
Keynote lecture

Polimeri da fonti rinnovabili e degradabili, riciclo
Materiali polimerici ibridi e (nano)compositi: sintesi, caratterizzazione e applicazioni
Processabilitá e stampa 3D di materiali polimerici
Chimica e fisica dei polimeri

DOMENICA 6 SETTEMBRE

		Politecnico di Torino – Corso Duca degli Abruzzi 24
18:00		Registrazione
19:00		Welcome party

LUNEDÌ 7 SETTEMBRE

		Polo Biotecnologico dell'Università di Torino (Via Nizza 52)
8:30		Registrazione
9:00		**Apertura lavori - Sala Keplero**
		Chairperson: R. Bongiovanni
9:10	**PL1**	**Y. Leterrier** (Ecole Polytechnique Fédérale de Lausanne) Robust superhydrophobic composite surfaces
10:00	**KN1**	**A. Dodero** (University of Fribourg) Block copolymer self-assembly in emulsions: from structural-color microparticles to multifunctional and reprogrammable photonics
10:30		*Coffee break*

PARALLEL SESSIONS

		Sala Keplero		**Sala Leonardo**
		Chairperson: M. Salzano de Luna		*Chairperson: R. Simonutti*
11:00	**O1.1**	**A. Barbato** (Università di Salerno) Development of active biodegradable PLA/PBSA films containing blueberry waste antioxidants extracted using nades as green solvents	**O3.1**	**A. Bardelli** (Università di Genova) From marine plastic litter to 3D printing: optimising blended polyolefin formulations for additive manufacturing
11:15	**O1.2**	**B. Brugnoli** (Università di Roma – La Sapienza) Multifunctional eugenol-based nanogels through copolymer design: antioxidant activity, intrinsic fluorescence, and drug encapsulation	**O3.2**	**R. Di Girolamo** (Università di Napoli Federico II) In situ stereocomplex formation during melt extrusion: an efficient nucleating strategy for crystallization of high-molecular weight PLA
11:30	**O1.3**	**A. D'Ilorio** (Università di Ferrara) Solvent-free grafting of pbs oligomers onto cellulose nanofibers for enhanced biocomposite compatibility	**O3.3**	**A. Sorze** (Università di Trento) Effect of natural fillers as substitutes for glass fibers in polyamide 6 composites for large-format additive manufacturing
11:45	**O1.4**	**M.R. Acocella** (Università di Salerno) Mechanochemical polymer-to-polymer recycling of polylactic acid	**O3.4**	**E. Togliatti** (Università di Parma) Influence of graphene on the electrical and mechanical properties of SLS-printed PA11
12:00	**O1.5**	**F. Bisio** (Università del Piemonte Orientale) (Meth)-acrylated tannic acid as a bio-based adhesion promoter for EB-curable coatings	**O3.5**	**D. Rigotti** (Università di Trento) Fused filament fabrication of TPU/PCM composites for thermally active wearable sport applications
12:15	**O1.6**	**G. Damonte** (Università di Genova) Environmentally friendly upcycling of PHA-based copolymers into branched multifunctional oligomers	**O3.6**	**A. Caccini** (Politecnico di Milano) Extending rubber fracture characterisation methods to layer adhesion assessment in 3D-printed TPU
12:30		Lunch time		

LUNEDÌ 7 SETTEMBRE (cont.)

		Sala Keplero
		Chairperson: K. Sparnacci
14:30	**KN2**	**V. Ambrogi** (Università di Napoli Federico II) Rethinking epoxy thermosets: from dynamic networks to circular materials

SESSIONI PARALLELE

		Sala Keplero		**Sala Leonardo**
		Chairperson: P. Stagnaro		*Chairperson: C. Marano*
15:00	**O1.7**	**M. Calosi** (Università di Ferrara) Amorphous blends of PLA and PHA for waterborne coatings and foam applications	**O2.1**	**A. Bifulco** (Università di Napoli Federico II) Transparent and self-extinguishing silica-epoxy nanocomposites based on Novolac resin
15:15	**O1.8**	**R. Chiarcos** (Università del Piemonte Orientale) Investigation into the potential of poly(β-amino ester)-based vitrimers	**O2.2**	**L. Broggio** (Università di Trento) Solvent-free processing of high β-phase poly(vinylidene fluoride) films for energy conversion applications
15:30	**O1.9**	**S. Alfano** (Università di Roma – La Sapienza) Formulation and characterization of polyhydroxyalkanoate blends with waste protein fibers for packaging application	**O2.3**	**E. Buratti** (Università di Ferrara) Hybrid microgels based on PNIPAM and natural proteins: from molecular interactions to biomaterial applications
15:45	**O1.10**	**A. Giovagnoli** (Università di Bologna) Development and industrial processing of cellulose-based materials for rigid packaging applications	**O2.4**	**M.T. Letizia** (Istituto Universitario di Studi Superiori Pavia) Towards sustainable electrical cable insulation: design of a novel polyethylene-based composite system
16:00	**O1.11**	**D. Gaikwad** (Università Milano Bicocca) Use of fruit peels for the development of bio-based hydrogels	**O2.5**	**C. Ciarlantini** (Università di Roma – La Sapienza) Cyclodextrin-grafted chitosan scaffolds for enhanced curcumin delivery
16:15	**O1.12**	**G. Filippone** (Università di Napoli Federico II) Effect of processing pressure on the interfacial shear strength in short fiber biocomposites: implications for manufacturing	**O2.6**	**B. Bertoncini** (Università di Pisa) Long vs. short chain covalent functionalization in the preparation of mechanochromic polymers
16:30		*Coffee break*		
18:00		*Torino Tour – Ritrovo in Piazza San Carlo, di fronte al monumento*		

MARTEDÌ 8 SETTEMBRE

Polo Biotecnologico dell'Università di Torino (Via Nizza 52)

Sala Keplero

Chairperson: G. Malucelli

9:00	**PL2**	**D. Beneventi** (University Grenoble Alpes) Cellulose fibres and derivatives: from traditional papermaking to advanced additive manufacturing
9:50	**KN3**	**S. Losio** (Istituto di Scienze e Tecnologie Chimiche) Cyclic olefin based copolymers via transition metal catalysis: bridging synthesis and functional application
10:20		*Coffee break*

SESSIONI PARALLELE

		Sala Keplero		**Sala Leonardo**
		Chairperson: A. Dorigato		*Chairperson: A. Pucci*
10:50	**O2.7**	**A. Bianucci** (Politecnico di Milano) Effect of silane coupling agent content on strain-induced cavitation in silica-filled SBR	**O4.1**	**C. Cecone** (Università di Torino) Electrospun membranes obtained from plant proteins and maltodextrins for the treatment of gadolinium-contaminated wastewater
11:05	**O2.8**	**S. Gabellini** (Università di Bologna) Synthesis and nanostructuration of DPP-based fluorescent polyesters for bioimaging	**O4.2**	**M. Turriani** (Università di Pisa) From amphiphilic random copolymers to functional nano-chelators: a new strategy for radionuclides sequestration
11:20	**O2.9**	**C. Imparato** (Università di Napoli Federico II) Silica-based nanostructured mixed oxides via sol-gel for the enhancement of fire resistance and recyclability of epoxy resins	**O4.3**	**L. Tosato** (Università di Bologna) A novel melamine-free waterborne intumescent coating for fire protection of wood
11:35	**O2.10**	**L. Gianoglio** (Università di Torino) Electrospun maltodextrin-derived carbon fibers: a sustainable platform for gold-based catalysts	**O4.4**	**J.A. Talamo Ruiz** (Politecnico di Torino) Electrospinning and solution blow spinning of water-based polymer solutions for the sustainable manufacturing of nanofibrous mats
11:50	**O2.11**	**A. Liguori** (Università di Bologna) Multifunctional and sustainable vitrimer systems	**O4.5**	**M. Scoti** (Università di Napoli Federico II) Tacticity-independent crystallization as a design strategy for chemically recyclable semicrystalline polymers
12:05	**O2.12**	**A. Nicosia** (Università di Catania) Functional polymers for the optical detection of amines: from bio-inspired to natural sensing units	**O4.6**	**G. Pignatiello** (Università di Napoli Federico II) Structure-property relationships in biopolymeric cryogels produced by freeze-casting
12:20	**O2.13**	**M. Righetti** (Università di Torino) Intercalated sodium bentonite in thermoplasticized corn starch: tuning oxygen barrier and mechanical performance for flexible food packaging applications	**O4.7**	**F. Olla** (Politecnico di Milano) Pressure-induced crystallization and polymorphic transitions of polybutene-1: high-pressure PVT study
12:35	**O2.14**	**F. Passoni** (Politecnico di Milano) Study of the high-pressure H_2 exposure effect on the mechanical behaviour of nbr based compounds	**O4.8**	**E. Guazzelli** (Università di Pisa) HEMIN-based amphiphilic random copolymers as biomimetic and recyclable catalysts for ARGET-ATRP in water
13:00		Lunch time		

MARTEDÌ 8 SETTEMBRE (cont.)

	Sala Keplero	
	Chairperson: P. Bracco	
14:30	**KN4**	**C. Zagni** (Università di Catania) Functionalized polymeric materials: versatile macromolecular platforms for pharmaceutical and environmental applications

SESSIONI PARALLELE

		Sala Keplero		**Sala Leonardo**
		Chairperson: P. Russo		*Chairperson: D. Caretti*
15:00	**O1.13**	**M. Colombo** (Politecnico di Milano) Structural control and amyloid reinforcement of waste-derived protein films	**O2.15**	**L. Simonini** (Università di Trento) Development and characterization of sandwich composites with thermal management and mechanical properties
15:15	**O1.14**	**V. La Matta** (Università di Napoli Federico II) Prospective life cycle assessment of tyre manufacturing: evaluating industrial decarbonisation pathways	**O2.16**	**R. Medri** (Università di Bologna) Eco-friendly dye–porphyrin copolymer for organic solar cells: from ternary donor to interfacial layer
15:30	**O1.15**	**N. Ferrentino** (Università di Salerno) From thiol-ene chemistry to bio-based polymeric networks: multifunctional limonene-derived materials	**O2.17**	**A. Riccioni** (Politecnico di Torino) Furanized cellulose nanocrystals for the preparation of diels-alder rubber composites
15:45	**O1.16**	**C. Di Bernardo** (Politecnico di Torino) Emerging concepts for sustainable biocomposites	**O2.18**	**R. Rossi** (Università di Firenze) Smart polymeric architectures based on photoswitches: from adhesives to responsive nanocarriers
16:00	**O1.17**	**A. Longo** (IPCB-CNR) Tuning PLLA Crystallization Kinetics via Reactive Extrusion Branching Strategies	**O2.19**	**P. Stagnaro** (SCITEC-CNR) Engineered polymer-based composites for radiative cooling systems
16:15		*Coffee break*		
16:30	**O1.18**	**M. Mollo** (Politecnico di Torino) Designing vanillin-based dynamic networks for the development of sustainable thermosets for future generation composites	**O2.20**	**L. Vitiello** (IPCB-CNR) Enhanced hydrolytic degradation of pla green composites by nanometric zno covalently bound on natural fibres via ALD
16:45	**O1.19**	**E. Pellegrino** (Politecnico di Torino) Melt-processing of dialcohol cellulose fibres/starch blends: processing strategies, structure and properties	**O2.21**	**V. Spinoso** (Università di Firenze) Capacitive sensor based on porous liquid crystalline gel
17:00	**O1.20**	**V. Giglio** (IPCB-CNR) Beyond biodegradability: comparative lc-ms profiling of plastic additive release from fossil-based and biodegradable agricultural mulch films into soil	**O2.22**	**A. Pucci** (Università di Pisa) Pyrolysis-derived telechelic polypropylene as a mechanochromic probe for visualizing stress redistribution and cavitation in polyolefin-based materials
17:15	**O1.21**	**C. Invigorito** (Anton Paar) Multiscale polymer analysis: correlating chemical structure, thermal behavior, and rheological response through complementary analytical techniques		
17:30		*Assemblea dei Soci*		
18:00		*Sessione Poster*		
20:30		Cena di gala @OGR Officine Grandi Riparazioni, Corso Castelfidardo, 22		

MERCOLEDÌ 9 SETTEMBRE

	Polo Biotecnologico dell'Università di Torino (Via Nizza 52)	
	Sala Keplero	
	Chairperson: M. Zanetti	
9:00	**PL3**	**A. Figoli** (Istituto per la Tecnologia delle Membrane - CNR) Innovative polymerised tailored membranes for gas and liquid applications
9:50	**KN5**	**D. Martella** (Università di Firenze) 3D printing meets liquid crystal polymers: responsive materials across different scales and applications
10:20		*Coffee break*

SESSIONI PARALLELE

		Sala Keplero		**Sala Leonardo**
		Chairperson: M. Messori		*Chairperson: M. Castellano*
10:50	**O1.21**	**D.H. Lamparelli** (Università di Salerno) When molecular imperfection works: sustainable polyester copolymers with industrial potential	**O2.23**	**P. Rizzo** (Università di Salerno) From hydrophobic to high-performance water filled polymeric films: a new paradigm in water purification materials
11:05	**O1.22**	**P. Russo** (IPCB-CNR) Natural antioxidant effect of hazelnut shell powder in PBS biocomposites under accelerated UV aging	**O2.24**	**S. Scurti** (Università di Bologna) Missive bottle-brush copolymers for soft opto-electronic via orthogonal polymerization
11:20	**O1.23**	**C. Noè** (Politecnico di Torino) Bio-based and antifungal by design: UV-cured eso/essential oil composites for next-generation active packaging	**O2.25**	**A. Dorigato** (Università di Trento) eEvaluation of the self-healing behaviour of multifunctional thermoplastic composite laminates
11:35	**O1.24**	**C. Pellecchia** (Università di Salerno) Engineering circular polyesters through molecular architecture: from thermoplastic elastomers to dynamic covalent networks	**O2.26**	**G. Proietto Salanitri** (Università di Bologna) Functional polymer hybrid hydrogels for multi-adsorption of oppositely charged emergent pollutants
11:50	**O1.25**	**R. Sergi** (Università di Roma – La Sapienza) Eugenol-derived polymeric networks as eco-friendly and circular wet-strength agents for high-performance paper products	**O2.27**	**C. Parmeggiani** (Università di Firenze) Shape-changing polymeric microparticles based on liquid crystal emulsions
12:05	**O1.26**	**F. Cano** (Università di Torino) Mechanical recycling of multi coupled material body seals based on thermoplastic elastomers in the automotive industry	**O2.28**	**R. Simonutti** (Università di Milano Bicocca) Fabrication of porous microparticles by RAFT polymerization
12:20			**O2.29**	**A. Fusari** (Politecnico di Milano) Investigating bacteria-driven alginate hydrogel matrix degradation: a rheological framework to discriminate between crosslinker depletion and backbone cleavage
13.00		Lunch time		

MERCOLEDì 9 SETTEMBRE (cont)

	Sala Keplero	
	Chairperson: G. Filippone	
14:00	**KN6**	**M. Bertoldo** (Università di Ferrara) Polyesters in water: from dispersion strategies to functional applications
14:30	**KN7**	**D. Natali** (Ecole Polytechnique Fédérale de Lausanne) *Macrogiovani 2026 Winner* 4D-Printable shape morphing double network granular elastomers (DNGEs)
15:00		Conclusioni e saluti finali
15:30		Coffee break

POSTER

Polimeri da fonti rinnovabili e degradabili, riciclo	
P1.1	**B. Cavallo** (Università di Torino) Development of cellulose fibers recovery strategy from siliconized papers
P1.2	**M. Ceraulo (Università di Palermo)** PBAT/grape pomace biocomposite for film blowing applications
P1.3	**S. Coiai (ICCOM-CNR)** Antioxidant and UVv-blocking poly(butylene succinate) films via nitroxide radical coupling functionalization
P1.4	**E. Di Francesco (Università di Genova)** Thermal method to recover glass fibers from epoxy resin composites
P1.5	**M. Di Maro (STEMS-CNR)** Influence of fast pyrolysis bio-oil-derived phenolic-rich fraction on PLLA UV stability
P1.6	**G. Fredi (Università di Trento)** Polyethylene glycol-assisted film stacking of polylactide/bacterial cellulose nanocomposites for sustainable food packaging
P1.7	**L. Gianoglio (Università di Torino)** Biopol4Soil- Bioderived polymeric granules and non-woven fabrics for sustainable agriculture:biodegradability and phytotoxicity evaluation
P1.8	**C. Meo (**Università di Ferrara**)** Characterization of hydrolyzed polyesters from agro-waste: effect of extraction conditions on composition
P1.9	**M.C. Mistretta (Università di Palermo)** Influence of glochids and xompatibilizer on the rheological, mechanical and biodegradation behaviour of PBAT and PLA biocomposites
P1.10	**P. Scarfato** (Università di Salerno) Circular valorization of post-consumer polyurethane foams through mechanical recycling and sustainable composite design
P1.11	**R. Simonutti** (Università di Milano Bicocca) Itaconic Acid: a sustainable platform alternative to acrylic acid in radical polymerization
P1.12	**S: Zeynalova** (Politecnico di Torino) Biobased vitrimers using eutectic hardener systems

Materiali polimerici ibridi e (nano)compositi: sintesi, caratterizzazione e applicazioni	
P2.1	**E. Caianiello** (IPCB-CNR) Graphene oxide functionalization of bacterial cellulose: effects on the structure and adsorption performance
P2.2	**F. Cicogna** (ICCOM-CNR) Residual antioxidant activity of winery by-product biofillers in LDPE and HDPE composites
P2.3	**L. Conzatti** (SCITEC-CNR) Upcycling hazelnut by-Products into functional elastomeric composites for sustainable sports surfaces
P2.4	**R. D'Auria** (IPCB-CNR) Development of lignin-containing biodegradable polymer blends for fishing net applications
P2.5	**D. Errico** (Università di Ferrara) Preparation and characterization of thermoresponsive films obtained from hybrid PNIPAM/silk fibroin systems
P2.6	**T. Landovsaky** (Institute of Physics of the Czech Academy of Sciences) Stabilization of magnetic nanoparticles in liquid crystalline polymers via tailor-made ligands
P2.7	**V. Fiore** (Università di Palermo) Development of PBSA-based biocomposites reinforced with ceiba speciosa natural fibres
P2.8	**G. Malucelli** (Politecnico di Torino) Physics-informed machine learning for predicting optical transmittance and haze in transparent wood
P2.9	**G. Malucelli** (Politecnico di Torino) Preparation and characterization of UV-LED curable bio-based coatings containing polymeric carbon dots
P2.10	**G. Malucelli** (Politecnico di Torino) Sustainable transparent wood based on bio-based isobornyl acrylate/methacrylate matrices
P2.11	**M. Morreale** (Università di Enna "Kore") Microplastics release from pp-based blends and nanocomposites
P2.12	**P. Stagnaro** (SCITEC-CNR) Sustainable routes to lead-free flexible piezoelectric polymer-ceramic films for energy harvesting

Processabilitá e stampa 3D di materiali polimerici	
P3.1	**R. Arrigo** (Politecnico di Torino) Processing as a design tool for tailoring microstructure and properties in complex polymer systems

Chimica e fisica dei polimeri	
P4.1	**A. Bandini** (Università di Pisa) Fluorine-free proton exchange membranes: synthesis and characterization of sulfonated PPO-PBI networks for pemwes
P4.2	**A. Frache** (Politecnico di Torino) Towards circular flame-retarded polypropylene: fire performance after recycling and aging
P4.3	**S. Pragliola** (Università di Salerno) Design of carbazole-functionalized poly(triphenylamine)s for VISIBLE-driven water remediation