

Virtual Milan Polymer Days 2021

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Tuesday, July 6th, 2021

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

PROGRAM of the POSTER SESSION

The poster communications will be presented in oral form via MS-TEAM platform.

09:30 AM OPENING CEREMONY

E. Ranucci, University of Milan (I), Congress Chair

MS TEAMS PLATFORM: MIPOL ROOM 1

1st Session - Chairperson: **N. Tirelli**, Istituto Italiano di Tecnologia IIT, Genoa (I)

09:45 AM **L. Rubino**, Polytechnic University of Milan (I). **Cyclic carbamates from (R)-(+)-limonene as monomers for isocyanate-free polyurethanes**

10:00 AM **M. A. Utzeri**, University of Palermo (I). **Hyaluronic acid coating of hydrophobic carbon nanodots as NIR-responsive hybrid nanosystems for image guided chemo-photothermal therapy of cancer**

10:15 AM **M. Cabibbo**, University of Palermo (I). **Production of lipid-polymer hybrid nanoparticles (LPHNPs) for targeted delivery of Roflumilast to lung macrophages**

10:30 AM **E. Giuliano**, University of Catanzaro "Magna Græcia" (I). **Poloxamine 908-based injectable hydrogels as potential delivery systems for hydrophilic molecules and proteins**

10:45 AM **S. Ansari**, University of Turin (I). **Metal chelator polymeric nanocarriers: a new therapeutic approach in neurological disorder associated with trace metal imbalance**

11:00 AM Break time

2nd Session - Chairperson: **S. Guillaume**, CNRS - University of Rennes 1 (F)

11:10 AM **F. Ferruti**, University of Milan-Bicocca (I). **Stimuli-responsive lignin nanoparticles: synthesis, enzymatic reinforcement, and characterization**

11:25 AM **I. Ansari**, University of Turin (I). **Developing albumin nanoparticle-thermoresponsive hydrogel composite for the ocular delivery of dexamethasone**

11:40 AM **S. Voci**, University of Catanzaro "Magna Græcia" (I). **Brij O₂-stabilized gliadin-based nanoparticles: physico-chemical properties and in vitro cytotoxicity**

11:55 AM **R. Januszewski**, Adam Mickiewicz University, Poznan (PL). **Synthesis of novel functional polyolefins**

12:10 PM **Z. Munir**, University of Turin (I). **Green and sustainable antibacterial chitosan/curcumin nanoformulations for food preservation**

12:25 PM Break time

3rd Session - Chairperson: **P. Chmielarz**, Rzeszow University of Technology (PL)

12:35 PM **C. Scanferla**, University of Insubria (I). **Synthesis and characterization of nanosystems based on magnetic nanoparticles and thermo/pH sensitive copolymers by ARGET-ATRP for application in drug delivery**

12:50 PM **E. Falletta**, University of Milan (I). **Polyanilines/TiO₂ composites as versatile materials for NO_x abatement**

01:05 PM **C. Marchesi**, University of Brescia (I). **Handled NIR spectrometer and multivariate modelling for microplastic quantification**

01:20 PM **C. Cionti**, University of Milan (I). **Polyaniline-oxide nanocomposites for environmental remediation: the role of the nature of the photocatalyst**

01:35 PM Lunch time

MS TEAMS PLATFORM: MIPOL ROOM2	
4th Session - Chairperson: F. Cellesi , Polytechnic University of Milan (I)	
02:20 PM	L. Maddalena , Polytechnic University of Turin (I). Fundamental aspects and gas-barrier applications of polyelectrolyte-assisted dispersion of reduced graphite oxide nanoplates
02:35 PM	S. S. Mathew , Mahatma Gandhi University (India). A facile and frugal method of starch-gum based edible coating on fresh produce
02:50 PM	A. Kidangayil Sali , Mahatma Gandhi University (India). Aloe vera incorporated chitosan /nano cellulose hybrid nanocomposites as potential edible coating material
03:05 PM	M. Lam , Université Paris 13 (F). Bioactive polymer grafting impacts on silicone breast implants' mechanical properties and cell responses
03:20 PM	Break time
5th Session - Chairperson: A. Dorigato , University of Trento (I)	
03:30 PM	F. Xiao , University of Lille (F). Intumescent polybutylene succinate: synergism between ethylenediamine phosphate and synergists
03:45 PM	M.-O. Augé , University of Lille (F). Flame retardation of PLA via reactive extrusion
04:00 PM	A. Beduini , University of Milan (I). Polyamidoamines derived from natural amino acids as effective, surface-confined flame retardants of cotton
04:15 PM	T. Nazè , University of Lille (F). Reaction to fire of additive manufacturing: is design impacting?
04:30 PM	G. Sanchez-Olivares , CIATEC (MEX). Leather industrial waste as synergistic fire retardant in EVA composites
04:45 PM	Break time
6th Session - Chairperson: N. Mauro , University of Palermo (I)	
05:00 PM	F. Niknam , University of Salerno (I). Copolymerization of CO₂ with epoxides by [OSSO]-type Cr(III) catalysts
05:15 PM	M. Arioli , Universitat Politècnica de Catalunya (E). Synthesis and characterization of novel even-odd and odd-even polyamides
05:30 PM	A. Krishna , Mahatma Gandhi University (India). Synthesis and characterization of functionalized tween polymer
05:45 PM	F. Moncalvo , Polytechnic University of Milan (I). An ATRP "grafting from" approach to control the molecular architecture of protein-polymer conjugates
MS TEAMS PLATFORM: MIPOL ROOM 3	
7th Session - Chairperson: C. Capacchione , University of Salerno (I)	
02:20 PM	A. Macior , Rzeszow University of Technology (PL). Wood-polymer composites with hydrophobic properties
02:35 PM	F. Galvagnini , University of Trento (I). Thermal-mechanical investigation of Epoxy/HGM syntactic foams incorporating encapsulated phase change materials
02:50 PM	A. Sam , Mahatma Gandhi University (India). Nanoscale hybrid filler reinforced polymer composites
03:05 PM	D. Rigotti , University of Trento (I). Development of a closed loop recycling process of rubber for automotive components
03:20 PM	H. Mahmood , University of Trento (I). Evaluation of the role of end-of-life polyvinyl chloride foams on the thermomechanical properties of ethylene-propylene diene monomers rubber
03:35 PM	Break time
8th Session - Chairperson: D. D'Hooge , University of Ghent (B)	
03:45 PM	M. Marcioni , Polytechnic University of Turin (I). Multilayer coating of cellulose fibers for biopolymer composites
04:00 PM	A. T. Arakkal Thankachan , Mahatma Gandhi University (India). Polymers in high efficiency solar cells
04:15 PM	J. Zarupski , University of Turin (I). Correlating active site properties and kinetics in SiO₂-supported metallocene catalysts for ethylene polymerization
04:30 PM	F. Valentini , University of Trento (I). Production and characterization of EPDM foams with paraffin for thermal management applications
04:45 PM	F. Conte , University of Milan (I). Kinetic modelling of the biodegradation of polymeric materials
05:00 PM	Break time
9th Session - Chairperson: A. M. Bossi , University of Verona (I)	

05:10 PM	A. La Gala , University of Ghent (B). Extrusion-based additive manufacturing of ABS: from theory to experimental validation
05:25 PM	F. J. Arraez Hernandez , University of Ghent (B). Novel mechanistic insights for surface-initiated reversible deactivation radical polymerization
05:40 PM	E. Zeinali , University of Ghent (B). Prediction of partitioning and compartmentalization effects in SG1-mediated miniemulsion polymerization of n-butyl acrylate
05:55 PM	S. Josè , Mahatma Gandhi University (India). Assimilating of carbon particles from vehicle discharge using coarse wool
06:10 PM	END of SESSION and CLOSING REMARKS