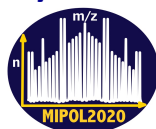


Milan Polymer Days 2020



PROGRAM

The congress presentations consist of keynote lectures (KN), invited lectures (IL) and oral communications (OC)

Wednesday, March 11th, 2020

11:00 REGISTRATION

13:00 OPENING CEREMONY

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

L. Prati, University of Milan (I), Head of the Chemistry Department

Chairperson: P. Ferruti, University of Milan (I)

13:20 KN **D. Díaz-Díaz**, University of Laguna (E). *Polymer adhesives and protective coatings via orthogonal "click" chemistry*

14:00 IL **M. Lavorgna**, Institute for Polymers, Composites and Biomaterials CNR, Lecco (I). *On the key role of carbonaceous filler distribution for advanced polymer-nanocomposites*

14:20 IL **C. Capacchione**, University of Salerno (I). *Synthesis of aliphatic polycarbonates from carbon dioxide and epoxides promoted by OSSO-type transition metal complexes*

14:40 IL **F. Auremma**, University of Naples "Federico II" (I). *Crystallization, polymorphism, morphology and properties of olefin based di- and multi-block copolymers*

15:00 IL **D. D'hooge**, University of Ghent (B). *The amazing world of network polymers and their applications*

15:20 OC **E. Passaglia**, Institute for the Chemistry of OrganoMetallic Compounds CNR, Pisa (I). *Incorporation of 2D black phosphorus (2D-bp) in polymer matrices for designing new materials with tuned morphological and spectroscopic features*

15:35 OC **S. Granados-Focil**, Clark University (USA). *Thermo-optically responsive solid-solid phase change materials as passive temperature controlling building enclosures*

15:50 COFFEE BREAK

Chairperson: D. Díaz-Díaz, University of Laguna (E)

16:10 KN **H. Iatrou**, University of Athens (GR). *Nanostructured materials for the controlled drug delivery of anticancer agents*

16:50 IL **P. Fabbri**, University of Bologna (I). *PHAs: myth busting or mythic materials? The current state of development and their real applications in different industrial sectors*

17:10 OC **M. Arioli**, University of Milan (I). *Highlights on the degradation of polyamidoamines in water and in soil*

17:25 OC **M. Haris**, TA Instruments (D). *Dynamic mechanical characterization of cured NR/BR compounds: including investigations into the effects of mastication time and different peptizers*

17:40 OC **N. Kasmi**, Aristotle University of Thessaloniki (GR). *Solvent-free synthesis of new fully biobased diol monomers through industrially viable approach: Toward new insights into the valorization of vanillic acid-based polyesters*

17:55 OC **D. Rigotti**, University of Trento (I). *Development of novel furan-based polyester blends*

18:10 OC **P. Salas-Ambrosio**, University of Bordeaux (F). *Biomimetic antimicrobial polypeptoids*

18:25 OC **M. Yerushalmi-Rosen**, Ben-Gurion University of the Negev (IL). *The role of conformational entropy in conjugated polymers carbon nanotubes assembly*

18:40 END of SESSION

Thursday, March 12th, 2020

08:00 REGISTRATION

Chairperson: H. Iatrou, University of Athens (GR)

09:00 KN **M. Chehimi**, Institut de chimie et des matériaux Paris-Est - CNRS (F). *Adhesion of polymers to diazonium-modified surfaces*

09:40 IL **J. Covas**, University of Minho, Guimaraes (P). *The cooling stage in extrusion-based 3D printing techniques*

10:00 IL **P. Chmielarz**, Rzeszow University of Technology (PL). *Chemistry innovations that will change the world – Reversible Deactivation Radical Polymerization*

10:20 OC **I. Zaborniak**, Rzeszow University of Technology (PL). *Ultrasonication - mediated atom transfer radical polymerization in miniemulsion for the preparation of precisely-defined complex polymer architectures*

10:35 COFFEE BREAK

Chairperson: M. Chehimi, Institut de chimie et des matériaux Paris-Est - CNR (F)

10:55 KN **A. Pegoretti**, University of Trento (I). *Thermal energy storage/release with polymer composites and rubbers*

11:35	IL	C. Bonduelle , University of Bordeaux (F). <i>Synthetic polypeptide polymers: secondary structures and self-assembly</i>
11:55	OC	G. Raffaini , Polytechnic of Milan (I). <i>Self-structuring of main-chain and pH-dependent conformation of L-glutamine-based polyamidoamino acid: a molecular dynamics study</i>
12:10	OC	F. Ferruti , University of Milan-Bicocca (I). <i>Controlled synthesis of linear polyamidoamino acids and preliminary investigation on their cytocompatibility and application in photodynamic therapy</i>
12:25	OC	M. Mella , University of Insubria (I). <i>Weakly polyelectrolytic surfaces: are there important interactions between ionized and neutral tethered monomers?</i>
12:40	LUNCH and POSTER SESSION	
Chairperson: A. Pegoretti , University of Trento (I)		
14:00	KN	T. Vermond , University of Utrecht (NL). <i>Balancing hydrophobic and electrostatic interactions in thermosensitive polyplexes for nucleic acid delivery</i>
14:40	IL	N. S. Kehr , University of Münster (D). <i>Injectable nanocomposite hydrogels for controlled cell migration and local drug delivery applications</i>
15:00	IL	R. Cavalli , University of Turin (I). <i>Polymer shelled nanobubbles</i>
15:20	IL	N. Tirelli , Istituto Italiano di Tecnologia, Genoa (I). <i>Fibrin as a cell matrix. Cell-mediated contraction and other phenomena</i>
15:50	OC	M. Geven , Istituto Italiano di Tecnologia, Genoa (I). <i>Disulfide restructuring on nanomanufactured polymer particles</i>
16:05	COFFEE BREAK	
Chairperson: N. Tirelli , Istituto Italiano di Tecnologia, Genoa (I)		
16:25	KN	S. Guillaume , Université de Rennes 1 (F). <i>Poly(hydroxyalcanoates): stereoregular (co)polymers & biomedical applications</i>
17:05	OC	T. Yoshida , Nippon Gohsei (D). <i>Innovative & sustainable high barrier solutions for circular economy</i>
17:20	OC	L. Izzo , University of Insubria (I). <i>Is a molecular "traffic warden" the solution to control drug delivery from polymer-based nanocarriers?</i>
17:35	OC	P. Petrov , Bulgarian Academy of Sciences (BG). <i>Novel block copolymer nanocarriers for enhanced solubilization and sustained release of caffeic acid phenethyl ester</i>
17:50	OC	A. M. Bossi , University of Verona (I). <i>Deformable molecularly imprinted nanogels</i>
18:05	OC	R. Pignatelli , University of Milan-Bicocca (I). <i>Functionalized natural polymers for "click" chemistry reactions: from drug delivery to tissue engineering applications</i>
18:20	OC	A. Gagliardi , University of Catanzaro "Magna Græcia" (I). <i>Zein: a versatile and promising natural polymer for drug delivery applications</i>
18:35	END of SESSION	
20:00	SOCIAL DINNER	
Friday, March 13th, 2020		
Chairperson: S. Guillaume , Université de Rennes 1 (F)		
09:15	IL	M. Malinconico , Institute for Polymers, Composites and Biomaterials CNR, Pozzuoli (I). <i>Single use plastics directive: EU policies push plastic industry towards a responsible future</i>
09:30	KN	A. Gomiero , Norwegian Research Center (N). <i>Micro- and nanoplastics in the environment: current knowledge and future trends</i>
10:10	IL	V. Castelvetro , University of Pisa (I). <i>Microplastics in the environment: an underestimated or overemphasized problem?</i>
10:30	IL	E. Davoli , Istituto di Ricerche Mario Negri IRCCS, Milan (I). <i>Microplastics in deep water: a combined GC-MS and FT-IR approach</i>
10:50	IL	A. Binelli , University of Milan (I). <i>Ecotoxicologic aspects of micro- and nanoplastics as new environmental contaminants</i>
11:10	COFFEE BREAK	
Chairperson: D. d'Hooge , University of Ghent (B)		
11:30	OC	V. Pasini , Thermo Fisher Scientific (I). <i>The fate of micro plastic in Earth environments. A proposed workflow for pollutant detection using Raman and Infrared micro-spectroscopy</i>
11:45	IL	L. Fambri , University of Trento (I). <i>Plastics and polymers in Italian aquatic environments. Survey, monitoring, laboratory analysis and educational aspects</i>
12:05	IL	M. Cocca , Institute for Polymers, Composites and Biomaterials CNR, Pozzuoli (I). <i>Microplastic pollution from synthetic textiles: quantitative evaluation and mitigation strategies</i>
12:25	IL	M. Paturzo , Institute of Applied Sciences and Intelligent Systems CNR, Pozzuoli (I). <i>Microplastics identification via holographic imaging and machine learning</i>
12:45	IL	S. Federici , University of Brescia (I). <i>Mimicking microplastic pollution through more realistic reference materials</i>
13:05	LUNCH	
Chairperson: F. Cellesi , Polytechnic of Milan (I)		
14:05	OC	W. Celentano , Polytechnic of Milan (I). <i>Complex polyester-PEG nanoparticles as drug nanocarriers for targeting malignant brain tumors</i>
14:20	IL	L. Mullen , Publisher Elsevier (UK). <i>Materials Today: journals and outreach connecting the materials community</i>

14:40	IL	F. Carosio , Polytechnic of Turin (I). <i>High performing flame retardant materials from surface nanostructuring of biobased components</i>
15:00	OC	A. Beduini , University of Milan (I). <i>Homo- and copolymeric polyamidoamines as flame retardants for cotton fabrics</i>
15:15	OC	O. Savard , Hitachi High-Tech Analytical Science Ltd (UK). <i>See what is really happening within your furnaces</i>
15:30	OC	A. L. Davesne , University of Lille (F). <i>Radiative heat barriers for the fire protection of polyamide 6</i>
15:45	COFFEE BREAK	
Chairperson: F. Carosio , Polytechnic of Turin (I)		
16:05	OC	M. Malavolti , Vinavil S.p.A. (I). <i>Miniemulsion techniques to include hydrophobic monomers in water based acrylic polymer dispersions</i>
16:20	OC	M. Borzenkov , University of Milan-Bicocca (I). <i>Photo-thermally active polymeric nanocomposites capable to ablate bacteria and biofilms</i>
16:35	OC	C. I. Nuwzor , Nnamdi Azikiwe University (WAN). <i>Production, characterization and performance evaluation of cardanol acetate in alkyd paints</i>
16:50	OC	D. Meroni , University of Milan (I). <i>UV-induced synthesis of polyaniline (PANI)-TiO₂ composites: mechanistic insight and application as sorbent for wastewater remediation</i>
17:05	OC	M. Marcioni , University of Milan (I). <i>Hydrophobic polyamidoamines: a new class of technological material?</i>
17:20	END of CONGRESS, CLOSING REMARKS and AWARDS	