

## SCIENTIFIC PROGRAMME

The conference presentations will consist of plenary lectures (PL), invited lectures (IL), oral presentations (OP) and posters (P)

**Wednesday, February 15th, 2017**

**08:30 Registration**

**09:20 Opening ceremony**

**Francesco Demartin**, University of Milan, Head of Chemistry Department

**Elisabetta Ranucci**, University of Milan, Conference Chair

*Chairperson: Paolo Ferruti, University of Milan, Italy*

09:40 PL **Julio San Roman**, CSIC, Madrid, Spain

*Playing with the composition of synthetic polymeric systems for the preparation of self-assembling systems and their application in drug delivery*

10:20 IL **Mario Malinconico**, IPCB-CNR, Pozzuoli, Italy

*Synthesis of functionalized amphiphilic copolymers for the realization of multi-targeted nanoparticles*

10:40 OP **Daniela Maggioni**, University of Milan, Italy

*Transition-metal complexes of purpose tailored biocompatible and biodegradable polymers for imaging and therapy*

**10:55 Coffee break**

*Chairperson: Julio San Román, CSIC, Madrid, Spain*

11:10 IL **Roberta Cavalli**, University of Turin, Italy

*Polymer-based core-shell nanoparticles*

11:30 IL **Minna Hakkarainen**, Royal Institute of Technology (KTH), Stockholm, Sweden

*Strategies for utilizing biobased and recycled resources for tailor-making polylactide properties*

11:50 IL **Francesco Cellesi**, Politecnico di Milano, Italy

*Design and synthesis of complex macromolecular architectures for applications in nanomedicine*

12:10 IL **Francesco Trotta**, University of Turin, Italy

*Cyclodextrin-based nanosponges: a versatile class of cross-linked polymers*

- 12:30 OP **Dario Puppi**, University of Pisa, Italy  
*Additive manufacturing of biomedical polymeric scaffolds with dual-scale porosity*
- 12:45 OP **Yves M Galante**, ICRM-CNR, Milano, Italy  
*Aerogels of enzymatically oxidized galactomannans from leguminous plants: versatile delivery systems of antimicrobial compounds and enzymes*

**13:00 Lunch**

*Chairperson: Jaime Grunlan, TEXAS A&M University College Station, USA*

- 14:00 PL **Brigitte Voit**, Leibniz Institute for Polymer Research, Dresden, Germany  
*Hyperbranched polymers in coating and blends*
- 14:40 IL **Apostolos Avgeropolous**, University of Ioánnina, Greece  
*Complex architecture copolymers and terpolymers: synthesis, characterization and self-assembly*
- 15:00 IL **Enrico Dalcanale**, University of Parma, Italy  
*Stimuli responsive polymers via molecular recognition*
- 15:20 IL **Chiara Gualandi**, University of Bologna, Italy  
*Electrofluidodynamic techniques to design functional polymeric materials for biomedical application*
- 15:40 OP **Nicolò Mauro**, University of Palermo, Italy  
*Graphene oxide surface functionalization of polymeric scaffolds for the recruitment and thermal ablation of tumor cells*

**15:55 Coffee break**

*Chairperson: Minna Hakkarainen, Royal Institute of Technology (KTH), Stockholm, Sweden*

- 16:10 IL **Serge Bourbigot**, University of Lille, France  
*Flame retarded polymers: how to fight against fire?*
- 16:30 IL **Jaime Grunlan**, Texas A&M University, USA  
*Super gas barrier nanocoatings for packaging film from water-based polyelectrolyte solutions*
- 16:50 IL **Federico Carosio**, Politecnico di Torino, Italy  
*Flame protection of polymers through green step-by-step surface modifications*
- 17:10 OP **Anna Rita De Corso**, University of Applied Science and Arts of Southern Switzerland, Switzerland

*A layer by layer assembled barrier to impart flame retardancy to polypropylene substrate*

- 17:25 OP **Lilian Medina**, Royal Institute of Technology (KTH), Stockholm, Sweden  
*Biobased nanocomposites combining strength, stiffness and fire-retardant properties*

**19:30 Social Dinner**

**Thursday, February 16th, 2017**

*Chairperson: Apostolos Avgeropoulos, University of Ioánnina, Greece*

- 09:00 PL **Peter Dubruel**, Ghent University, Belgium  
*3D printing of hydrogel building blocks: going biopolymers or synthetic?*
- 09:40 IL **Elisa Passaglia**, ICCOM-CNR, Pisa, Italy  
*Functional polymers through post-reactor modification reactions*
- 10:00 IL **Alessandro Pegoretti**, University of Trento, Italy  
*Fiber/matrix interphase engineering in polymer composites with graphene and graphene oxide*
- 10:20 OP **Andrea Dorigato**, University of Trento, Italy  
*Novel electrically conductive polymer nanocomposites for industrial applications*
- 10:35 OP **Daniele Rigotti**, University of Trento, Italy  
*Polyvinyl alcohol reinforced crystalline nanocellulose in 3D printing application*

**10:50 Coffee break**

*Chairperson: Vincenzo Busico, University of Naples, Italy*

- 11:05 IL **Oscar Chiantore**, University of Turin, Italy  
*Polymers for art conservation*
- 11:25 IL **Concetto Puglisi**, IPCB-CNR, Catania, Italy  
*Characterization of complex polymer systems by MALDI mass spectrometry*
- 11:45 OP **Massimo Mella**, University of Insubria, Italy  
*Killing bacteria via ion-complexing insoluble polymers*
- 12:00 OP **Lorella Izzo**, University of Salerno, Italy  
*pH-Sensitive nanoaggregates: controlling swelling via copolymer structure and chemical composition*

12:15 OP **Simona Losio**, ISMAC-CNR, Milano, Italy  
*Structure-properties relationship of commercial ethylene/1-octene copolymers from chain-shuttling polymerization*

12:30 OP **Alessandro Piovano**, University of Turin, Italy  
*How to exploit the synergy between  $Ti^{3+}$  and Lewis acidic  $Al^{3+}$  sites on  $Al_2O_3$ -supported Ziegler-Natta catalysts to produce branched polyethylene*

**12:45 Lunch**

*Chairperson: Elisa Passaglia, ICCOM-CNR Pisa, Italy*

13:45 PL **Vincenzo Busico**, University of Naples, Italy  
*Molecular olefin polymerization catalysts: fundamentals and industrial outlook*

14:25 IL **Piero Sozzani**, University of Milan Bicocca, Italy  
*In situ polymerization in 3D porous materials*

14:45 IL **Fabio Ganazzoli**, Politecnico di Milano, Italy  
*Effects of the macromolecular architecture on polymer conformations and dynamics*

15:05 OP **Nittaya Hansupo**, University of Lille, France  
*Characterization of intumescent chars by solid state NMR*

15:20 OP **Francesca Selmin**, University of Milan, Italy  
*Exploitation of PLGA conjugates in drug delivery*

15:40 OP **Stefania Zappia**, ISMAC-CNR, Milano, Italy  
*Water-based nanoparticles dispersions of amphiphilic low band gap block copolymers: an alternative eco-friendly approach*

**15:55 Coffee break**

*Chairperson: Fabio Ganazzoli, Politecnico di Milano, Italy*

16:10 OP **Marco Coletti**, TA Instruments, Milan, Italy  
*Investigation on the double melting peak of PLLA using modulated DSC*

16:25 OP **Günther Arnold**, Anton Paar Germany GmbH, Stuttgart, Germany  
*Advanced rheometric tools for polymer applications*

**16:40 Best poster awards**

**16:55 Closing remarks**