

CV of ROBERTA MARIA BONGIOVANNI

Currently Full Professor of Chemistry at the Department of Applied Science and Technology, Politecnico di Torino, Italy, she earned her Laurea Degree in Chemistry (with Honours), at the University of Torino, Italy in 1986, an M.Sc. in Colloids and Surface Science and a Ph.D. in Physical Chemistry at the University of Bristol in 1998.

She was Visiting Scientist at Rensselaer Polytechnic Troy, New York, USA (Summer 2006) and Visiting Professor at Institut National Polytechnique Grenoble, France (Summer 2012).

She has been teaching Freshmen Chemistry for several years; currently she is offering the following courses: Organic Chemistry for Chemical Engineering, Textile Chemistry; Macromolecular Chemistry. She regularly teaches at the French University J.Fourier in Grenoble for the Master Course Matériaux Polymères pour Technologies Avancées.

She has supervised 41 final year projects and 9 PhD projects; she is currently supervising 3 Ph.D students. She is coauthor of 161 publications on international journals, 8 book chapters, 2 PCT patent and 5 Italian patents.

She is a member of ACS, Polymer Division and of the Italian Association of Macromolecules on behalf of which she leads the Italian School Mario Farina on Polymeric Materials. She is a potential reviewer for many journals, namely Polymer Chemistry, Langmuir, Polymer, Polymer International, J.Colloids Interface Science, J.Fluorine Chemistry.

Research activities

As a junior researcher at the ENI Group and during her post-doc at the University of Torino, she worked in the field of colloidal dispersions, with a special interest towards clay-organic media systems. Since she joined the Politecnico di Torino in 1992, her main scientific interests have been focussed on

- a) the synthesis of polymeric networks in the form of films via photoinduced processes and their characterization (thermal, mechanical and surface properties)
- b) the selective modification of the surface of polymers both by cophotopolymerization and photografting of monomers
- c) the preparation of nanocomposites and hybrid materials via photoprocesses (including modification of both the inorganic fillers and the polymeric matrices).

She has been leading projects sponsored by Italian or foreign SMEs and industries.

Main projects from the last 5 years are:

- two Regional Projects 2005-2009 sponsored by the Regione Piemonte: 'New Li cells with nanostructured electrodes and polymeric electrolyte' and 'Antibacterial coatings obtained by fast and ecofriendly processes'
- national project by the Italian Ministry of University and Research (MIUR) 'New photopolymers for microfluidic devices' (2010-2012)
- Italian-German Vigoni Project (2010-2012) 'Synthesis and characterisation of polymeric membranes as electrolytes for Lithium batterie' in cooperation with Munster University
- Italy China Cooperlink Project (2011-2013) 'New polymeric materials for microfluidic devices' in cooperation with Beijing University of Chemical Technology.