

## **SILVIA VICINI**

Silvia Vicini is graduated in Chemistry at the Department of Chemistry and Industrial Chemistry of University of Genoa. She received her Ph.D. in Chemistry in 2002. Actually she is Associate Professor of Industrial Chemistry at the University of Genoa. The main topics of her research are the science and technology of polymeric materials and chemistry for the conservation and protection of different substrates, including items belonging to the Cultural Heritage, as stone, mortars and paper.

In these fields, she got Beamtime at the ISIS Center of Rutherford Appleton Laboratory in Oxford (UK) to apply the Neutron Scattering (SANS) technique and at the ESRF in Grenoble (France) to apply the micro-infrared to the evaluation of protecting treatments on porous materials (stone and paper).

She had a Post-Graduated training project of 1 year in Atofina Chemical Inc., Research & Development Center, Performance Polymer Division, King of Prussia, Pennsylvania, USA, regarding fluoropolymers and acrylics for paint and varnish. She got experience in the field of coatings, formulation science, characterization and application of protective agents to porous substrates, with particular regards to stone, concrete and wood.

In the framework of NATO Science Program, Collaborative Linkage Grant she spent 1 month in the Division of General Chemistry, Faculty of Chemistry, Nicolaus Copernicus University of Torun, Poland, in order to study the miscibility between natural and synthetic polymers (chitosan and PVP). On 2013 and 2014 she spent 6 months, as Visitor Professor, in the Universidade Federal de Minas Gerais (UFMG); Departamento de Química, Belo Horizonte, Brazil, working on hydrogels based on polyacrylamide and on analysis of the degradation of the soapstone Prophets in Congonhas, MG.

She published 115 papers, among them 80 on international journals (Scopus: h-Index 24).

She is co-inventor of 4 patents (one of them is an US Patent).

She has participated to 69 national and international conferences, having talks and showing posters, and to 17 schools and courses. She contributed to the organization of schools, conferences and workshop.

She has participated in six research projects financed by Italian Ministry of Research and University and in six projects financed by Regional Institution.

She has also participated to a European Project in the 6th Framework Programme for Research, Technological Development and Demonstration (title: Innovative materials and technologies for the conservation of paper of historical, artistic and archaeological value). She has got research contracts with Italian industries. She wrote chapters in 5 books.

She has been supervisor of students during their Master degree thesis.

Recently she has been Tutor of Ph. D. Students:

AA 2013-2016: "Synthesis and characterization of Ca-Alginate Hydrogel for technological applications".

AA 2016-2019: "New naval fillers for industrial applications (Yachting)".

Silvia Vicini is teaching courses regarding the Laboratory of Industrial Chemistry, Chemistry for Cultural Heritage and Pollution with Environmental Impact at University of Genoa.