

Maria Laura Santarelli

Current Positions

- Associate Professor in Dept. of Chemical Material and Environmental Engineering, University of Rome Sapienza
- Responsible for Nanotechnology Area in Distretto Tecnologico dei Beni Culturali del Lazio
- Director of the Centre CISTeC – Research Centre in Science and Technology for the Conservation of the Historical-Architectural Heritage, University of Rome Sapienza (2013-2019)
- Director of Raman and IR Spectroscopy Laboratory and of Polymers and Innovative Energies, Dept. of Chemical Material and Environmental Engineering, University of Rome Sapienza

Background

- Master Degree (Laurea 5 years) in Chemistry, University of Rome Sapienza
- Ph.D. in Materials, Raw Materials and Metallurgy Engineering, University of Rome Sapienza

Research Areas and Teaching Activities

Research

Polymer science, nanomaterials, building materials, petroleum derivatives.

Teaching in University of Rome Sapienza

- Polymerization Processes, Master degree in Chemical Engineering
- Decay and Conservation of Non-metallic Materials, Master degree in Science and Technology of the Conservation of the Cultural Heritage
- Materials Science, in advanced course Polymeric Processes and Polymeric Materials, MOPLen School, in collaboration with LyondellBasell (Ferrara, Italy)

Seminars in ETH Zurich

Collaborations and Consultancies

Collaborations

Various national (e.g. CNR, University of Perugia, University of Urbino, University of Lecce) and international institutions (e.g. ETH Zurich, Switzerland; Fraunhofer Institute, Germany; Northwestern University, USA).

Consultancies

- Materials science consultant for Basell Poliolefine Italia, Advanced Materials srl, Bruker Italia, Arakne srl, and for ENI and in the EU Project FP6-2003-SSP3-513718 “Graffitiage”.
- Conservation science consultant for Italian Governmental Institutions, including Soprintendenza Speciale per i Beni Archeologici di Roma, Sovrintendenza Capitolina di Roma, Soprintendenza per i Beni Archeologici del Lazio and a broad spectrum of companies involved in construction and restoration, and in research regarding “Evaluation of decay as factor of seismic risk in the conservation of the Cultural Heritage” for the Italian Ministry for Cultural and Environmental Heritage.

Partecipation in Project EU F6-Policies GRAFFITAGE (513718) (2005-2008)

Partecipazione in Progetto POR FESR Competitività regionale e occupazione 2007-13 “ARCADIA 3.0 - ATTIVITA' E RISORSE CULTURALI ASSISTITE DA DISPOSITIVI AVANZATI”

Responsible researcher in the Project PON Sicilia PON03PE_00214 TECLA (CUP B62F14000560005) (2007-2013)

Responsible for the Sapienza unit in the project Regione Lazio - Distretto Tecnologico dei Beni Culturali (DTC) "SISMI" (2018-2019)

Responsible for the Sapienza unit in the project Regione Lazio - Distretto Tecnologico dei Beni Culturali (DTC) "ADAMO" (2018-2019)

Responsible of the Sapienza unit in the Project ESA “POMERIUM IAP-5G for L’ART Demonstration Project” (2021-in progress)

Responsible of the Sapienza unit in the project ESA “BLUE: Brillouin – backscatter - fluorescence LIDAR research for Underwater Exploration of marine litter” (2021-in progress)

PI in the project FISR 2020 COVID – Prima fase- "ICARO" (2021 - in progress)

Partecipazione in the project Regione Lazio - Distretto Tecnologico dei Beni Culturali (DTC) " CIABOT" (2021 in progress)

Responsible in the project PNRR PE5 CHANGES – spoke 7