Policy statement

Name, Surname

Simona Raneri

Title and laboratory

Dr., Institute of Chemistry of Organometallic Compounds of the Italian National Research Council (ICCOM-CNR)

I would like to stand for election in order to represent the following community:
- Cultural heritage, archaeology, environment, geosciences

Describe in few lines your scientific activity related to synchrotron radiation.

My interest in advanced methods applied to geoscience and archaeology started since my PhD studies, in 2013. Neutron and synchrotron sources served several of my research projects in the field of natural stones conservation, ancient ceramic characterization for technological and provenance studies, pictorial traces and pigment layers analysis. In fact, the use of advanced non-destructive and non-invasive techniques for ancient materials characterization is one of my main research topics. During my young academic carrier, I mainly experienced SR-X-ray methods for ancient material characterization, including micro-XRD, micro-XRF and XRF mapping (using both microscopes and microprobes) along with XANES experiments, both on ancient ceramics and paintings. I had the pleasure to be the first user at PUMA of Soleil, enjoying the first experiments at the new beamline optimised for CH studies. I'm Professor of Archaeometry at the University of Pisa (Italy) and responsible for archaeometric analysis for several Italian excavation programmes.

Also a few words on your intended future action in the representative committee.

I wish to support the interests of the heritage, archaeology, environment and geosciences community, and of all SOLEIL users. As part of this mandate, I commit to:
- promote the SOLEIL synchrotron Users Committee (ORGUES) among users for the better knowledge of its mission and opportunities offered to the community
- promote the use of synchrotron radiation-based methods among scientists in cultural heritage (CH) field encouraging to explore the challenges offered by different SR applications and Soleil beamlines, some of which especially optimised for CH studies
- support users interested in SR-based applications in evaluating the best lines to select for their experiments, also through tailored panel discussions at the beginning of new application runs
- support and promote the discussion between users and scientific managers for the better development of tools and set-up configurations responding to the different users' needs
- promote the cooperation between users and beamline scientist for the analysis of data and the development of software open source and user-friendly tailored for the post-processing of SR data, to ameliorate the users' experience behind the beamtime stay