



Monday 3rd September

16:00 - 18:00	Early Registration and Welcome Reception BBQ, Eldon Building, Portsmouth University
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Tuesday 4th September

Session I: Archaeological and paleontological advances	
09:30 - 09:50	Welcome Address
09:50 - 10:50	Invited: Roy Wogelius University of Manchester, UK Tracking biochemical pathways through deep time
10:50 - 11:10	Investigation of an unusual Egyptian crocodile mummy from the musée des Confluences, by multiscale propagation phase-contrast synchrotron microtomography. Camille Berruyer, ESRF
11:10 - 11:40	Break
Session II: Technique advancements: Neutron	
11:40 - 12:40	Invited: Francesco Grazzi CNR, Italy Ancient metal artefacts production technologies revealed through neutron imaging and neutron diffraction
12:40 - 14:10	Lunch
14:10 - 14:30	Neutron facilities for the benefit of cultural heritage: the study of unconventional samples Daniela Di Martino, Dip. di Fisica "G. Occhialini", Università Milano-Bicocca
14:30 - 14:50	Neutron diffraction for archaeometry: results obtained on ancient Sardinian bronzes using the Italian Neutron Experimental Station INES Antonella Scherillo, ISIS Facility, STFC Rutherford Appleton Laboratory
14:50 - 15:10	Neutron Vibrational Spectroscopy for probing ancient skeletal human remains Maria Paula Marques, Unidade I&D Química-Física Molecular, Department of Chemistry, Univ. Coimbra
15:10 - 15:30	POSTER CLIP SESSION (10X 2 minutes)
15:30 - 16:00	Break
Session III: Materials, processes and chaînes opératoires	
16:00 - 16:20	Deciphering Rembrandt's impasto with multi-modal synchrotron x-ray diffraction

	Victor Gonzalez, Department of Materials and Engineering, Delf University of Technology
16:20 - 16:40	The first colour photograph: HAXPES and XAS study of Edmond Becquerels's photochromatic images Victor de Seauve, Centre de recherche sur la conservation, Muséum national d'histoire naturelle, CNRS
16:40 - 17:00	Plaster-making in Renaissance Florence : ancient practices studied through X-Ray Microtomography imagery of porosity. Florian Beaugnon, PSL Research University, Chimie ParisTech - CNRS
17:00 - 17:20	POSTER CLIP SESSION (10X 2 minutes)
17:30 - 19:00	Poster Session, with drinks

Wednesday 5th September

Session IV: Technique advancements: Synchrotron radiation

09:30 - 10:30	Invited: Serena Corr University of Glasgow, UK Imaging Tudor nanoparticles: Total scattering insights of Mary Rose timbers
10:30 - 10:50	Cultural Heritage at the ID21 beamline, ESRF: recent applications and on-going refurbishment Marine Cotte, ESRF
10:50 - 11:10	Soft X-ray synchrotron microscopy for cultural heritage materials: inspecting nanostructured protective and consolidants products interaction with natural stone substrate at Elettra TwinMic beamline Alessandra Gianoncelli, Elettra Sincrotrone Trieste
11:10 - 11:40	Break
11:40 - 12:00	Identifying degradation drivers in Mary Rose timbers through X-ray synchrotron analysis Esther Rani Aluri, University of Glasgow
12:00 - 12:20	A High-Resolution Non-Invasive XRD Technique for Cultural Heritage Graeme Hansford, University of Leicester
12:20 - 13:00	Lunch
13:00 - 19:00	Travel to Diamond and Tour (Diamond + ISIS Muon an Neutron Source)

Thursday 6th September

Session V: Multi-technique analytical processes and complimentary methods

09:30 -10:30	Invited: Dominique Derome EMPA, Switzerland How neutron imaging of moisture content in wood and canvas supports protecting artefacts
10:30 - 10:50	Using Negative Muons to Probe the Debasing on Roman Silver Coinage Adrian Hillier, ISIS Facility, STFC Rutherford Appleton Laboratory

10:50 - 11:10	Synchrotron deep-UV photoluminescence microscopy for the submicron analysis of degraded zinc white oil paint Selwin Hageraats, Rijksmuseum
11:10 - 11:40	Break
11:40 - 12:00	Investigating the origins of starch-based diet. SR-FTIR and SEM analysis of Palaeolithic Grinding Stones Giovanni Birarda, Elettra Sincrotrone Trieste
12:00 - 12:20	Virtual unfolding of folded Papyri* Tobias Arlt, TU Berlin
12:20 - 13:30	Lunch
	Session VI: Conservation, alteration and monitoring methods
13:30- 14:30	Invited: Victoria Beltran Ipanema, CNRS Centre national de le recherche scientifique, France Discrimination of materials and characterisation of heterogeneities in varnishes from stringed musical instruments by uSR-FTIR
14:30 - 14:50	A 10 year overview of the synchrotron based studies of Cl-containing corrosion products of iron archeological objects and their in situ dechlorination. Solenn Reguer, Synchrotron SOLEIL
14:50 - 15:10	Casting light on the Mary Rose iron cannonballs Hayley Simon, University College London (UCL)
15:10 - 15:40	Break
15:40 - 16:00	2D XANES-based approaches for speciation investigations of cultural heritage materials: a focus on pigments' alteration processes and carbonatation of Ca-based consolidants into limestone matrix Letizia Monico, SMAArt Centre and Department of Chemistry, Biology and Biotechnology, University of Perugia
16:00 - 16:20	Recovering past reflections: X-ray fluorescence imaging of 19th century daguerreotypes Madalena Kozachuk, The University of Western Ontario
16:20 - 16:40	The state of preservation of the parchment support of the medieval manuscript of Mary of Guelders assessed by synchrotron FT-IR measurements Ina Reiche, Rathgen-Forschungslabor, Staatliche Museen zu Berlin, Stiftung Preussischer Kulturbesitz
16:40 - 17:00	Exploiting terbium carboxylates photoluminescence to study the evolution and ageing of oil paint systems Anna Lluveras-Tenorio, Department of Chemistry and Industrial Chemistry, University of Pisa
17:00 - 17:20	Multifunctional magnetic nanoplatforms for the conservation of the Tudor flagship the Mary Rose. Enrique Sanchez, University of Glasgow
18:30 - 22:30	Conference Dinner, Mary Rose Museum

Friday 7th September

09:30 - 10:30	Invited: Daryl Howard Australian Synchrotron, Australia Historic pewter plates to paintings - Cultural heritage research at the Australian Synchrotron's X-ray Fluorescence Microscopy Beamline
	Session VII: The impact of analytical techniques: Non-Destructive Versus Destructive analysis, and radiation damage studies
10:30 - 10:50	Characterization of pigments through X-ray Spectroscopy – Implications for the monitoring and mitigation of radiation effects Samuel Webb, SLAC National Accelerator Laboratory
10:50 - 11:10	X-ray induced alteration of arsenic-containing pigments Apurva Mehta, SSRL\SLAC\Stanford University
11:10 - 11:40	Break
11:40 - 12:40	Round Table and closing session
12:40 - 13:40	Lunch