



HSAcademy

1st Doctoral
Summer
School

13-16 July 2021

final programme



EXCELLENCE IN HERITAGE SCIENCE FOR CONSERVATION AND COLLECTION CARE RESEARCH AND ACCESS

Day 1: 13/7 Tuesday

9:15-9:30 Welcome address by the HS Academy - DSS Coordinator

Rocco Mazzeo, University of Bologna (IT)

9:30-10:00 What IPERION HS is

Jana Striova, National Research Council, INO (IT)

10:00-11:00 Modelling of decisions in preventive conservation

Matija Strlič, University of Lubljana (SI)

11:00-12:00 Translating conditions into numbers - On the way to the green museum

Stefan Simon, Rathgen-Forschungslabor (DE)

12:00-13:00 Analysis of environmental data in museums with free software and hardware

Josep Grau-Bove, University College London (UK)

13:00-14:00 Lunch break

14:00-15:00 The analytical techniques of palaeontology

María Isabel Sarro Moreno, Centro Nacional de Investigación sobre la Evolución Humana (ES)

15:00-16:00 The study of ancient DNA

Magnus Lundgren, SciLifeLab (SE) & Mariaelena Fedi, National Institute for Nuclear Physics (IT)

16:00-17:00 NIR hyperspectral imaging (HIS) applied to the identification and spatial location of collagen in archaeological bones

Rocco Mazzeo, University of Bologna (IT)



Day 2: 14/7 Wednesday

10:00-11:00 What can proteins tell us about Heritage

Caroline Tokarski, University of Bordeaux (FR)

11:00-12:00 Integrated studies of the use and circulation of prehistoric materials such as colouring matter and ivory

Ina Reiche, National Scientific Research Centre (FR)

12:00-13:00 Possibilities and limitations of provenance determination of archaeological metal objects

Ernst Pernicka, Curt Engelhorn Center for Archaeometry (DE)

13:00-14:00 Lunch break

14:00-15:00 In-situ electrochemical impedance spectroscopy for the study of metallic cultural heritage

Emilio Cano, Superior Council for Scientific Research (ES)

15:00-16:00 Investigating heritage with ions and neutrons: fundamentals and hands-on applications

Thomas Calligaro, Centre for Research and Restoration of the Museums of France (FR) & Zsolt Kasztovszky, Budapest Neutron Center (HU)

16:00-17:00 Optical Coherence Tomography for planning and monitoring of conservation of paintings

Piotr Targowski & Magdalena Iwanicka, University of Toruń (PL)



Day 3: 15/7 Thursday

9:00-10:00 Non-invasive and portable X-rays methods for Arts and Archaeology

Paolo Romano, National Research Council, ISPC (IT)

10:00-11:00 Advanced spectroscopies and data processing methods for the investigation of paintings

Silvia Prati & Giorgia Sciutto, University of Bologna (IT)

11:00-12:00 Spectral imaging and machine learning aided data processing for history and conservation research

Haida Liang, Nottingham Trent University (UK)

12:00-13:00 Unveiling the composition of historical plastics through non-invasive reflection FT-IR spectroscopy in the extended near- and mid-Infrared spectral range

Francesca Rosi, National Research Council, SCITEC (IT)

12:00-13:00 Lunch Break

14:00-16:00 Virtual tour (Opificio delle Pietre Dure, Florence, Italy) - tbc



Day 3: 16/7 Friday

10:00-11:00 Photodegradation of heritage objects

Tomasz Lojewski, AGH University of Science and Technology (PL)

11:00-12:00 **Multidisciplinary analysis of artefacts recovered from the Rooswijk shipwreck**

Angela Middleton, Sarah Paynter, Francesca Gherardi; Historic England (UK)

12:00-12:30 **Conclusive remarks by the HS Academy -DSS Coordinator**

Rocco Mazzeo, University of Bologna (IT)





HS Academy

<http://www.iperionhs.eu/academy-events/>

