

Science & Heritage Interdisciplinary Research Training Workshop

The Imaging and Sensing for Archaeology, Art history and Conservation (ISAAC) Lab invites you to a two-day interdisciplinary workshop organised in the framework of European Research Infrastructure for Heritage Science (E-RIHS). E-RIHS is an initiative that supports research on heritage interpretation, conservation, documentation and management (<https://e-rihs.eu/>). Cutting-edge tools and services will be provided by cross-disciplinary researchers to users working to advance knowledge about heritage and to devise innovative strategies for its conservation. E-RIHS connects researchers in the humanities and natural sciences and fosters a trans-disciplinary culture of exchange and cooperation.

The aim of this workshop is to bring together those engaged in the study of heritage from different backgrounds (e.g. historians, curators, archaeologists, conservators and heritage scientist) to illustrate how science can address a wide range of research questions related to a variety of heritage objects and to foster interdisciplinary collaboration between the participants.

Each day of the workshop will consist of short presentations in the morning consisting of case studies that illustrate the benefits of the application of heritage science on various types of objects followed by hands-on workshop using facilities in ISAAC Lab in the afternoon. The instruments used for the hands-on workshop are all part of the ISAAC Mobile Lab (<https://www.ntu.ac.uk/research/groups-and-centres/groups/isaac>), most of which are used in the case studies shown in the talks.

The objectives of the workshop are

- To present a 'dialogue' between the Art & Humanities' research questions and the response using scientific analysis;
- To present how a range of analytical methods can assist the investigation of materials composition to inform art history/history, provenance, conservation strategy and storage needs of archaeological, archival and museum objects;
- To offer the opportunity to see **in practise** how the scientific analysis of various types of artworks is performed;
- To provide a deeper understanding of both the principles of operation and the benefits of the use of a series of analytical techniques that a mobile lab, like the ISAAC Mobile Lab, can offer through the examination of various types of cultural heritage objects;
- To provide an opportunity to experience interdisciplinary collaborative research;
- To inform the future training strategy for users and providers of E-RIHS facilities.

Participation is free. If you intend to participate in the hands-on workshop, you will have to fill a short form below to help us with organisation. The workshop will be held 28th-29th March at the Clifton campus of Nottingham Trent University.

Prior to the workshop, there will be a one-day event (E-RIHS Day) on the 27th March disseminating E-RIHS at the city campus of Nottingham Trent University.

Science & Heritage Interdisciplinary Research Training Workshop

Thursday 28 March

New Hall Block Tiered Lecture Theatre 7, CLIFTON campus (NG11 8NS)

09:30-10:00

Coffee/Registration

10:00-10:15

Welcome

Haida Liang (ISAAC, NTU)

10:15-10:45

Heritage Science – a historic perspective

Marika Spring (National Galley)

10:45-11:05

Examination of the Canterbury Roll

Natasha Hodgson (History, NTU)

Sotiria Kogou (ISAAC, NTU)

11:05-11:25

Remote sensing analysis of architectural interiors – a study of St. Barnabas Cathedral

Ana Souto (Architecture, NTU)

Yu Li (ISAAC, NTU)

11:25-11:40

Ancient Egyptian Faience – materials & techniques

Margaret Read (ISAAC NTU/British Museum)

11:40-12:00

In-situ scientific analysis of rock art

Don O'Meara (Historic England)

Haida Liang (ISAAC, NTU)

12:00-12:15

Optical Coherence Tomography (OCT) for Conservation of Easel Paintings

Marika Spring (National Galley)

12:15-13:15

Lunch

13:15-16:00

Hands-on workshop in the Imaging & Sensing for Archaeology, Art History & Conservation (ISAAC) lab

Interdisciplinary Science and Technology Centre (ISTeC) building --ISTEC-003

Friday 29 March

John Clare Tiered Lecture Theatre 005, CLIFTON campus (NG11 8NS)

10:30-11:00

Coffee

11:00-11:15

Glass degradation

David Thickett (English Heritage)

11:15-11:30

Preventive conservation using Microfade

Capucine Korenberg (British Museum)

11:30-11:50

Authentication of South East Asian Quranic Manuscripts

Annabel Gallop (British Library)

Luke Butler (ISAAC, NTU)

11:50-12:05

3D Scanning in Cultural Heritage

Paul Bryan (Historic England)

12:05-12:20

Nottingham Alabaster Sculpture - from Research to Exhibition

Chris Pickup (Heritage Management/ISAAC, NTU)

12:20-13:20

Lunch

13:20-16:00

Hands-on workshop in the Imaging & Sensing for Archaeology, Art History & Conservation (ISAAC) lab

Interdisciplinary Science and Technology Centre (ISTeC) building -IST003