

European Research Infrastructure for Heritage Science (E-RIHS) Dissemination Day

The European Research Infrastructure for Heritage Science (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 groups of researchers to cross-disciplinary users and scientific communities 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. E-RIHS pursues the integration of European world-class facilities to create a cohesive entity, playing a connecting role in the global community of heritage science.

E-RIHS is currently in its preparatory phase with a projected implementation phase to commence in 2021. At present there are 100 heritage institutions and facilities involved spreading over 16 countries, while 24 partners take part in the UK hub (<https://e-rihs.ac.uk/>).

E-RIHS uses four platforms to categorise different types of research capability, or ‘facility’. The collection of these capabilities along with the unique expertise (technical and interdisciplinary research expertise), spread across the four integrated platforms (or ‘LABs’), make up the infrastructure which can include major research equipment (or sets of instruments), knowledge-based resources such as collections, archives and data, and e-infrastructures:

ARCHLAB

An ARCHLAB provides access to physical collections, such as objects, technical images, samples and reference materials, analytical data and conservation documentation, as stored in museums, galleries and research institutions.

DIGILAB

A DIGILAB provides online access to digital tools concerning heritage and data, with the aim of making it FAIR (Findable, Accessible, Interoperable and Re-usable). This includes and enables access to searchable registries of datasets, reference collections, thesauri, ontologies etc., and supports data interoperability through the creation of shared knowledge organization systems.

FIXLAB

FIXLAB describes large-scale and medium-scale fixed facilities – e.g. synchrotrons, neutron and laser sources and other essentially immovable research facilities including the associated unique expertise.

MOLAB

MOLAB is access to a comprehensive selection of advanced cutting-edge mobile analytical instrumentation for non-invasive measurements on objects, buildings, and sites, allowing the implementation of complex multi-technique diagnostic projects for in situ investigations. It describes the totality of the facility (i.e. it includes the mobile equipment, transport and fixed facility (lab) that supports the maintenance of the equipment, along with the unique expertise of the personnel) as one entity.

Wednesday 27 March
Old Chemistry Theatre, Arkwright building, CITY campus (NG1 4FQ)

10:30-11:00	Coffee/Registration
11:00-11:05	Welcome from the Deputy Vice Chancellor Nigel Wright
11:05-11:25	European Research Infrastructure for Heritage Science (E-RIHS) Luca Pezzati (CNR Italy)
11:25-11:45	Science and Heritage in the UK May Cassar (UCL)
11:45-12:15	ARCHLAB Experiences from the European ARCHLAB transnational access programme Marika Spring (National Galley) ARCHLAB in Operation Polydora Baker (Historic England)
12:15-13:15	Lunch
13:15-13:45	MOLAB NTU ISAAC Mobile Lab Haida Liang (NTU) UCL SEAHA Mobile Lab Josep Grau- Bove (UCL)
13:45-14:15	DIGILAB Archaeology Data Service Tim Evans (University of York) DIGILAB for museum science data Joseph Padfield (National Galley)
14:15-15:15	FIXLAB Diamond Light Source Giannantonio Cibin (Diamond Light Source) Oxford Radio Carbon Accelerator Unit Emma Henderson (University of Oxford) Stable Isotope Lab Hannah Koon (University of Bradford) Organic Geochemistry Unit molecular & isotope facilities Richard Evershed (University of Bristol)
15:15-15:35	Coffee
15:35-15:45	AHRC Collaborative Doctoral Partnership Phil Pollard (Historic England)
15:45-16:05	AHRC CDP heritage science PhD project pitch
16:05-16:15	AHRC Midlands4Cities (M4C) Doctoral Training Partnership Representative of AHRC M4C team
16:15-16:35	AHRC M3C heritage science PhD project pitch

16:35-17:35

Screening of 'Mysterious Discoveries in The Great Pyramid'

A documentary film by Florence Tran to complement the Nature paper on the discovery of a big void in Khufu's Pyramid by observation of cosmic-ray muons