

<p>SEAHA IMAGING GROUP Title: Hyperspectral imaging and computer vision workshops Date/time: Tuesday 2 April, 11:00-12:15</p> <p>Summary The workshop will be split into two parts with the following rough format: <u>Part 1:</u> Hyperspectral imaging demonstration for heritage applications (30 mins) - Charlie Willard - UCL Hyperspectral imaging is a technique used across a broad range of research areas, more recently finding applications within heritage science. The technique will be demonstrated using a portable hyperspectral imaging system - we will work through the imaging pipeline from image acquisition through to data processing. <u>Part 2:</u> Introduction to computer vision for heritage science: the Seebibyte Project and its tools (30 mins) - Dr Giles Bergel - University of Oxford Computer vision has made rapid progress in recent years and is now being applied in heritage science and related disciplines for many tasks. This workshop will demonstrate several free and open-source software tools from the University of Oxford's Visual Geometry Group (VGG) that enable researchers to search, classify and annotate large collections of images by criteria of their own choice. Attendees are encouraged to bring their own devices (laptop or tablet) and will have the opportunity to book consultations with the presenter during the conference if they would like to discuss a use-case or a collaboration.</p>	<p>Room Venue TBC</p> <p>Room with projector 20-30 people capacity</p>
<p>SEAHA BUILT HERITAGE GROUP Title: From micro to macro, lab to site: an overview of built heritage research Date/time: Tuesday 2 April, 15:20-16:30</p> <p>Summary This session will be undertaken in University of Oxford's Geolab and will introduce a range of projects current SEAHA students are working on in relation to built heritage. There will be several stations which you will rotate round introducing everything from mortar experiments to mould to microscope work! You should also get a chance to try some of our equipment as well as see how we try to undertake built heritage research in the lab.</p>	<p>Room Geo Lab 1</p>

SEAHA LANDSCAPE STUDY GROUP**Title: An introduction to landscape heritage and perspectives on landscapes in the Anthropocene****Date/time: Wednesday 3 April, 11:00-12:15****Summary**

Join the newly founded SEAHA Landscape Study Group for an introduction to what landscapes are, why they're important and how we use heritage science to describe, explain and manage them.

Landscapes are fundamentally important from a heritage perspective, being the interplay between the natural world and human activities. They present significant economic, cultural, natural and historical value. However, as humanity becomes an ever more dominant force, we pose an unprecedented threat to the stability of our heritage landscapes. These are pressing questions for heritage science in the 21st century.

Participants will take part in a 'Landscape Speed Dating' session in which members of the group will have short periods of time to showcase their exciting research techniques relevant to landscape heritage. These rapid-fire sessions will highlight the cutting-edge science being done by SEAHA students in a landscape context.

We will end the session with an interactive discussion about what the future holds for landscapes, particularly within the context of the Anthropocene. How will the pressures on landscapes change? What new questions will heritage scientists have to answer for our natural and managed landscapes over the course of the 21st century?

Room

Venue TBC

Room with projector 20-30 people capacity

SEAHA COLLECTIONS GROUP

Title: What are you wearing? From cotton to rayon, a look at natural and synthetic fibres from a scientific perspective.

Date/time: Wednesday 3 April, 13:45-15:00

Summary

This is an interactive workshop on woven fabrics (from clothes to painting canvas), their materials and the development of new treatments for their conservation.

This session aims to be a platform to discuss the current knowledge in textile materials analysis and their conservation.

Part of the workshop will be devoted to:

- Identification natural to synthetic fibres
- Learning about physical, chemical and mechanical properties of textiles materials and the potential and limitations of some techniques to measure them.
- Discussions around the main challenges faced in conservation of these woven fabrics, from textiles to painting canvas, from natural to synthetic fibres.
- Discussion about the use of nanoparticles for de-acidification and consolidation purposes.

Room

Venue TBC

Room with projector 20-30 people capacity