### National Heritage Science Forum

# TRENDS IN HERITAGE SCIENCE

A new conference series to explore how heritage science research and innovation delivers societal benefit.

#### Trends for 2025

- 1) The economic value of heritage science
- 2) Towards sustainable historic buildings
- 3) Digital innovation in heritage science

#### 10th July 2025

UCL Engineering Building Malet Place, London WC1E 7JE

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#### Welcome to the National Heritage Science Forum's conference Trends in Heritage Science.

The aim of this conference is to inspire and grow an active heritage science community. We've chosen the title Trends in Heritage Science because we want this conference to be the first in a series that showcases how heritage science research and innovation is addressing key societal challenges.

The programme for 2025 focuses on the economic value of heritage science, the role of heritage science in the sustainability of historic buildings, and how digital innovation is changing the practice and communication of heritage science research.

In addition, we have a wide-ranging poster session, three very different workshops, and displays from exhibitors who play a crucial role in enabling that research.

There are many people who have committed their time, energy and enthusiasm to delivering this exciting programme. I would particularly like to thank, in advance, our speakers and the conference organising committee, and our host UCL.

I hope that you enjoy the day, meet new people - at all stages in their career - and are inspired to think about the opportunities for heritage science research and practice to make a real difference to people's lives.

#### Prof Chris Gaffney,

Chair of the Board of Trustees

### PROGRAMME

**09:00-09:30 Registration and coffee** (Location A – Exhibition space)

**09:30-09:40 Welcome address** Professor Chris Gaffney, Chair of NHSF (Location A – Roberts 106, Lecture Theatre)

**09:40-11:10 Session 1: The economic value of heritage science** (Chair, Professor Josep Grau-Bove) (Location A – Roberts 106)

- Adala Leeson, Head of Socio-Economic Analysis and Evaluation, Historic England – Deeply valued; Difficult to value: Heritage and the economy
- Professor Matija Strlič, Professor of Analytical Chemistry, University of Ljubljana – Quantification of Loss as an Input into Economic Valuation
- Panel discussion session

11:10-11:40 Break, Exhibitor and Poster session (Location A –

Exhibition space)

**11:40-12:55 Session 2: Towards sustainable historic buildings** (Chair, Professor May Cassar) (Location A – Roberts 106)

- Dr Moses Jenkins, Project Manager, Historic Environment Scotland The continued importance of site based research in retrofit
- Professor David Glew, Director of the Leeds Sustainability Institute, Leeds Beckett University – Building Performance Evaluation of Fabric Retrofits in Heritage Buildings

12:55-14:00 Lunch, Exhibitor and Poster session (Location A –

Exhibition space)

Location A = UCL Engineering Front Building, Malet Place, WC1E 7JE Location B = UCL School of Slavonic and East European Studies, 14-16 Taviton Street, London WC1H 0BW

## PROGRAMME

#### 14:00-15:30 Workshops (Location B)

**Please note:** it is a 5-minute walk from the lunch area (Location A) to the workshop rooms (Location B) in the School of Slavonic and East European Studies.

Helpers will be on-hand to guide you to the workshop rooms within the School of Slavonic and East European Studies but **please make sure that you leave plenty of time (at least 10 minutes) to arrive**.

- Open access apps for preventive conservation: using damage functions in practice (Room 432)
- RICHeS: Empowering Conservation and Heritage Science through a Distributed Research Infrastructure (Room 347)
- Speed Mentoring for Emerging Professionals (Room 431)

**15:30-16:00 – return from workshops and last chance to visit our exhibitors and posters** in the exhibition space at Location A.

**16:00-17:15 Session 3: Digital Innovation in heritage science** (Chair, Nancy Bell) (Location A - Roberts 106)

- Dr Sterling MacKinnon, Project Manager, University of Oxford Heritage Innovations Laboratory Oxford: Digital Twins for Heritage at Blenheim Palace
- Keith Challis, Remote Sensing Coordinator, National Trust Digital Survey, Digital Content, Digital Visits. Some Thoughts on innovation at National Trust
- Dr Vania Virgili, European Research Infrastructure for Heritage Science (E-RIHS) - E-RIHS: From Phsical to Digital Services - Evolving Access Pathways

#### 17:15-17:30 Wrap-up, Award of Poster Prize, Close

Location A = UCL Engineering Front Building, Malet Place, WC1E 7JE Location B = UCL School of Slavonic and East European Studies, 14-16 Taviton Street, 5 London WC1H 0BW

### WORKSHOPS

RICHeS

RESEARCH INFRASTRUCTURE FOR CONSERVATION AND HERITAGE SCIENCE

### 1) RICHeS: Empowering Conservation and Heritage Science through a Distributed Research Infrastructure

Location B, UCL School of Slavonic and East European Studies, Room 347

This interactive workshop will provide updates on the Research Infrastructure for Conservation and Heritage Science (RICHeS) and explore its transformative impact on the conservation and heritage science community. Through case studies and collaborative discussions, attendees will gain valuable insights into how RICHeS is shaping the future of conservation and heritage science across the UK.

The session will highlight RICHeS' role in expanding access to innovative facilities, equipment, collections, expertise and digital resources. An interactive segment will showcase case studies from the 31 Tranche 1 RICHeS-funded projects, demonstrating real-world applications of RICHeS support within the conservation and heritage science sector. This includes an introduction to the Heritage Science Data Service (HSDS), RICHeS' digital repository, which aims to enhance data accessibility and the use of heritage science data across the sector.

Attendees will also learn how to engage with the programme, leverage cutting-edge infrastructure and collaborate with RICHeS-supported projects to advance their conservation and research initiatives.

### WORKSHOPS



#### 2) Speed Mentoring for Emerging Professionals

Location B, UCL School of Slavonic and East European Studies, Room 431

Led by the Icon Heritage Science Group.

This interactive session offers emerging professionals the chance to connect with experienced and recognised professionals in the heritage science field. Through one-to-one short sessions with experts from the UK and with international experience, participants will engage in meaningful dialogue designed to provide guidance, support and insight for their individual career development.

Organised as a series of timed rounds, each mentee may by randomly assigned up to three one-to-one conversations (subject to availability) with mentors with different areas of expertise within the cultural heritage sector, ranging from museum practice to academic research. At the end of your sessions, you will meet the other mentees or ask questions to the organisers from Icon and NHSF.

Meet the mentors on the NHSF website.

## WORKSHOPS

### 3) Open access apps for preventive conservation: using damage functions in practice

Location B, UCL School of Slavonic and East European Studies, Room 432

#### Speakers

- Matija Strlič, Professor of Analytical Chemistry, University of Ljubljana
- Josep Grau-Bove, UCL
- David Thickett, English Heritage Trust

#### Summary

This workshop will explore the modelling of different types of damage processes, using open-access online apps.

- Paper degradation, using the Collections Demography app for paper based collections: <u>https://hsll.shinyapps.io/COL\_DEM\_3/</u>
- Mechanical damage, using HERIe
- Corrosion

Workshop participants will be invited to reflect on the strengths and limitations of these models, and provide feedback on the underlying concepts and utility of such tools for teaching or decision making. Delegates will gain familiarisation with collections demography terminology, understanding of key concepts in quantitative risk assessment, practical use of open access apps.

Delegates are invited to use the apps in advance of the workshop and/or bring own laptops/smartphones to use during the session.

## **EXHIBITORS**

Meet our exhibitors in the Exhibition space at Location A (UCL Engineering Front Building, Malet Place, WC1E 7JE).

## bev art

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### **EXHIBITORS**



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#### Heritage Science Data Service

The <u>Heritage Science Data Service</u> provides core digital research services as part of the <u>RICHeS programme</u>, the UK's Research Infrastructure for Conservation and Heritage Science. The HSDS will unlock potential for innovation in heritage science and conservation research and its capacity to advance understanding, preservation, and management of UK heritage. <u>https://hsds.ac.uk/</u>



The conference Trends in Heritage Science is kindly hosted by UCL



We are grateful to the RICHeS programme for its support of this conference, helping to advance collaboration and innovation in conservation and heritage science.

### hscis Heritage Science Data Service



### Unlocking Potential for Innovation in Heritage Science and Conservation Research

General enquiries Email: <u>help@hsds.ac.uk</u>

Information on depositing data: Email: <u>collections@hsds.ac.uk</u>



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RESEARCH INFRASTRUCTURE FOR CONSERVATION AND HERITAGE SCIENCE

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Meet us at **NHSF Conference 2025** UCL 10th July 2025

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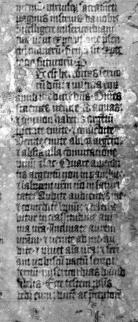
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### POSTERS

#### Location A - Exhibition space

These posters showcase cutting-edge work and emerging topics that will shape the future of heritage science. Poster authors will be present to discuss their work. <u>npj heritage science</u> has generously sponsored the poster prizes which will be awarded for the best overall poster, the best student poster, and the runner-up student poster. The author of the best overall poster will be invited to publish their work in *npj Heritage Science*.

### npj | heritage science

Number	Author	Poster Title
1	Francesca Azolini	Measurement of volatile organic compound emissions from cellulose acetate by thin-film solid-phase microextraction coupled with gas chromatography mass spectrometry.
2	Donatella Banti	Francsiszka Themerson's White Paintings: A case study for understanding surface phenomena in modern paintings.
3	Donglin Chen	The first comprehensive conservation-focused study of the pigmented stucco mural on the Wharton Esherick Museum Silo in Malvern, Pennsylvania.
4	Nicholas Crabb	Portable Hyperspectral Imaging (pHI) for the enhanced recording of archaeological features and deposits.
5	Anna Edmonds	Sonic Bleed: Harnessing site-specific soundscapes for enhanced heritage engagement.
6	Nilsu Erkul	From tangible ruins to digital memoryscapes: Rethinking contested heritage through digital ethnography.



Number	Author	Poster Title
7	Anna Fenlon	The Cold Truth: What happens to specimens after freezing?
8	Molly Fort	One Cube to Rule Them All: Source-fused HSI-XRF data cube production for enhanced pigment identification in heritage science.
9	Arthur Graf	HarwellXPS/Cardiff University.
10	Muskan Kheria	Biopolitical marginalisation and the decline of Tiretta Bazaar, Kolkata's earliest Chinatown.
11	Tanya Klowden	Interconnected identities: Computational methods to identify evidence of artistic collaboration in small-scale 16 <sup>th</sup> century paintings on canvas.
12	Myo Thiri Kyaw	Evaluating transparent coatings for metal surfaces using optical coherence tomography (OCT) in heritage conservation.
13	Yun-Wen Liao	Imaging mechanical stability in historical paper: An approach for monitoring environmental effects and preservation strategies.
14	Jasmin Mackenzie	Mechnical degradation of recycled plastics in museum collections: An introduction to research.
15	Sam Matthews	The Dumbarton cross pendant – Early medieval or modern?



Number	Author	Poster Title
16	Beatrice Menegaldo	Evaluating greener alternatives for polyvinyl butyral (PVB) removal in wall painting conservation.
17	Marianne Odlyha	Paint dosimeters as tools to monitor museum environments.
18	Roselyn (Yidong) Sun	Forward-thinking or long-term thinking? A story of Hill House.
19	Corinne Suraci	Linalool-based nanostructured fluid: A sustainable approach for the removal of graffiti paint from outdoor cultural heritage.
20	Amelia Suzuki	Ground-based long-range multimodal imaging and spectroscopy for built heritage, and a novel workflow from data collection to analysis and organisation.
21	Xilan Wu	Appearance, perception, and chemistry: Assessing the dust effects on heritage materials.
22	Shixin Zhao	The application of attribution science to heritage risk assessment.

## **SPEAKER BIOGRAPHIES**

#### Adala Leeson, Head of Socio-Economic Analysis and Evaluation, Historic England

Adala Leeson leads a small team of analysts undertaking and commissioning social, economic and environmental research at Historic England. Adala and her team produce the <u>Heritage Counts</u> publication series, which is a compendium of evidence considering the connections between heritage, the economy, society and the environment. Adala has worked closely with the Department for Culture, Media and Sport (DCMS) to develop the <u>Culture and Heritage Capital (CHC) programme</u>. She is the Principal Investigator for a AHRC/DCMS-funded project developing a taxonomy for arts, culture and heritage. She is also a co-investigator on the AHRC/DCMS-funded Caveat project developing economic techniques for culture and heritage valuation. Prior to joining Historic England, Adala worked as an Associate Economic Consultant for 10 years, advising public and private clients on economic development and regeneration programmes. She previously worked in academia as a researcher at the London School of Economics.

#### Matija Strlič, Professor of Analytical Chemistry at University of Ljubljana and Honorary Professor of Heritage Science at University College London

Matija Strlič's main research interest is modelling of heritage materials, environments, values and decision making. He has published more than 190 peer-reviewed papers and is Editorial Board Member of Heritage Science, Polymer Degradation and Stability and Studies in Conservation. He is a member of the European Academy of Sciences and Arts, Fellow of the Royal Society of Chemistry and of the International Institute for Conservation. His track record includes more than 60 projects with total funding of more that €100M for heritage science. In 2015, he received the Ambassador of Science of the Republic of Slovenia Award for these outstanding achievements in science and international collaboration.

## **SPEAKER BIOGRAPHIES**

#### Dr Moses Jenkins, Historic Environment Scotland

Dr Moses Jenkins is a Project Manager at Historic Environment Scotland (HES), and he is the author of a number of technical advice documents including the HES Guide to Energy Retrofit and the book *Survey and Assessment of Traditionally Constructed Brickwork*. A conservation-accredited member of the Chartered Institute of Building, he has worked for HES in various roles for 20 years.

#### Professor David Glew, Director of the Leeds Sustainability Institute, Leeds Beckett University

David is the Director of the Leeds Sustainability Institute at Leeds Beckett University. David has led major Building Performance Evaluation (BPE) research projects for the UK Government to investigate performance gaps and unintended consequences of new low carbon buildings and retrofits.

David's teamare specialists in BPE field testing of products and processes, and his team also explore the potential of behaviour change techniques to encourage healthier or more sustainable choices and understand occupant experiences in homes.

David is an established expert in retrofit evaluation and holds various positions at academic, industry and policy organisations. He is on the Board of the Good Homes Alliance, a Pioneer member of the Building Performance Network, he sits on OFGEM's Technical Advisory Panel for Innovation, and he is Associate Editor for the journal *Buildings and Cities*. David makes appearances on TV, radio and podcasts to discuss his research and topical issues affecting the energy efficiency of homes in the UK.

## **SPEAKER BIOGRAPHIES**

#### Dr Sterling MacKinnon, University of Oxford

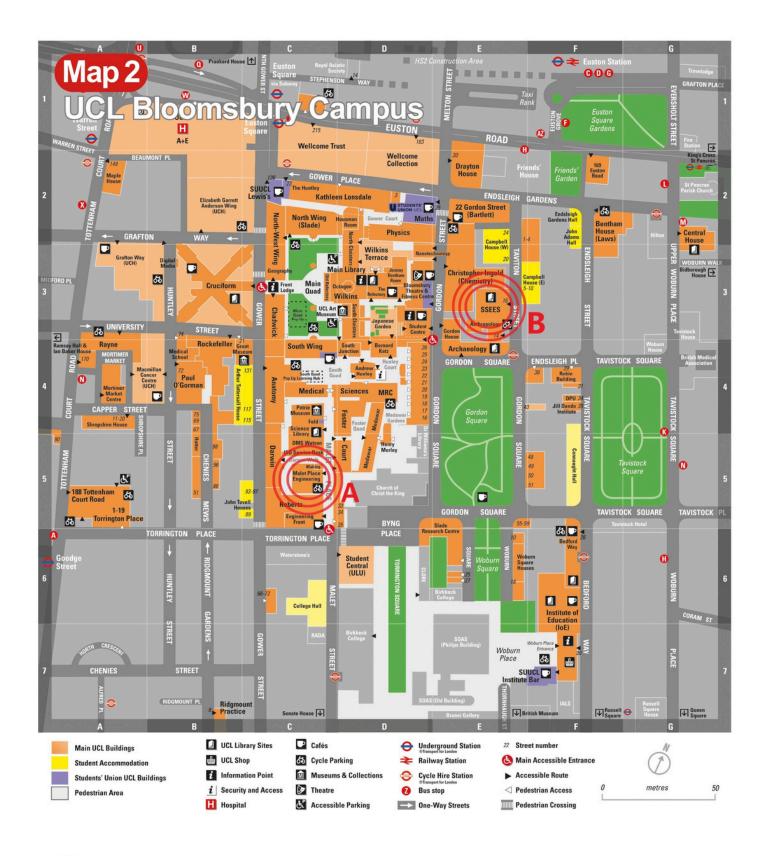
Dr Sterling Mackinnon is the project manager for Heritage Innovations Laboratory Oxford (HILO), an interdisciplinary unit of researchers whose mission is to explore and trial new ways of working between the academy and heritage sector. Sterling completed his doctorate at the Oxford School of Geography and the Environment where his research continues to concern the heritage sciences, digital culture, and the ontologies of data. In addition to project managing HILO, Sterling is a member of the Oxford Resilient Buildings and Landscapes Laboratory. He is also a facilitator of the <u>Oxford University Heritage Network</u>.

#### Keith Challis, National Trust

Keith Challis is the National Trust's national Remote Sensing Coordinator. He's worked widely in the heritage sector as a commercial and academic archaeologist and has held various positions for the past 13 years at the National Trust.

#### Dr Vania Virgili, E-RIHS

Dr Vania Virgili is the Interim Director General of E-RIHS (European Research Infrastructure for Heritage Science).





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Exhibition space, UCL Engineering Front Building, Torrington Place, WC1E 7JE. Location of Poster presentations and refreshments. Also provides access to Roberts 106 where sessions are located.

UCL School of Slavonic and East European Studies, 16 Taviton St, London WC1H 0BW. Workshops will take place in rooms 431, 432, 347.

Miriam Andrews	UCL
Francesca Azolini	UCL
Alex Ball	The Natural History Museum
Amy Baker	Historic England Archive
Donatella Banti	Courtauld Institute of Art
Irene Bargagli	Historic England
Nancy Bell	NHSF trustee
Cecilia Bembibre	UCL Institute for Sustainable Heritage
Lisa Brown	HES
Philip Carlisle	Historic England
Mathieu Ceuterick	Inspect BV
Keith Challis	National Trust
Nicholas Crabb	Bournemouth University
Carl Daniels	Central Scanning Ltd
Alison Dwyer	Conservation & Museums Advisory Service, Wiltshire Council
Anna Edmonds	University of Brighton
Nilsu Erkul	Welsh School of Architecture, Cardiff University
Majdi Faleh	Nottingham Trent University
Anna Fenlon	The Natural History Museum
Molly Fort	UCL
Adam Frost	UCL & Historic Environment Scotland
Claire Fry	Spencer & Fry
Chris Gaffney	University of Bradford
Adam Gibson	UCL

John Gilchrist	ClydeHSI
Mar Gomez	The Courtauld
Arthur Graf	Cardiff University
Josep Grau-Bove	University College London
Isobel Griffin	National Galleries of Scotland
Michael Gutland	UCL - Institute for Sustainable Heritage
Kerren Harris	Historic Royal Palaces
Carl Heron	The British Museum
Mike Heyworth	Getty Conservation Institute
Richard Higham	UCL
Niyan Ibrahim	UCL
Simran Kaur	University of Exeter
Muskan Kheria	Cardiff University
Christine Kimbriel	University of Cambridge
Tanya Klowden	Courtauld Institute
Myo Thiri Kyaw	University of Applied Science Georg Agricola
Adala Leeson	Historic England
Yun-Wen Liao	University College London
Jasmin Mackenzie	Imperial/V&A
Samuel Matthews	Historic Environment Scotland
Pedro Maximo Rocha	The National Archives
Sarah Mayfield	National Trust
Beatrice Menegaldo	The Courtauld Institute of Art
Georgia Millsom	Imperial College London and Tate

Ellie Mitchell	Historic England
Filip Moens	
Panagiotis Morfis	The Open University
Sky-Lyn Munoz	The Courtauld Institute of Art (ICON Member)
Grzegorz Nesterowicz	Wawel Royal Castle
Elizabeth Neville	West Dean College
Eric Nordgren	Cardiff University
Morana Novak	Tate
Daniel O'Flynn	The British Museum
Marianne Odlyha	Birkbeck, University of London
Scott Orr	UCL Institute for Sustainable Heritage
Arianne Panton	The Leather Conservation Centre
Benedikt Pongs	Technische Hochschule Georg Agricola Bochum
Fabiana Portoni	The Natural History Museum
Boris Pretzel	Bev/Art
Robbie Ramsay	NERC Field Spectroscopy Facility
Lauren Rees	Amgueddfa Cymru - National Museum Wales
Daniela Reggio	University College London
Julian Richards	Heritage Science Data Service
Benjamin Rous	Netherlands Institute for Conservation+Art+Science+
David Saunders	British Museum
Katherine Sephton	Imperial College London & The National Gallery
Lisa-Marie Shillito	Durham University
Magdalena Sobon	Wawel Royal Castle

Rebecca Stacey	The British Museum
Michelle Stoddart	The Science Museum Group
Roselyn Sun	University College London
Corinne Suraci	Sapienza University of Rome - University of Florence
Maria Amelia Suzuki	Nottingham Trent University
Meranda Tang	UCL
Guglielmo Tarallo	UCL
Dave Thickett	English Heritage Trust
Tong Tong	University College London
Lore Troalen	National Museums Scotland
Aurélie Turmel	Historic Environment Scotland
Sarah VanSnick	Library of Trinity College Dublin
Jess Vining	University of Chester
Constantina Vlachou-Mogire	Historic Royal Palaces
Hannah Walpole	JEOL (UK) LTD
Janie Whitehall	Historic Environment Scotland
Jim Williams	Historic England
Helen Wilson	The National Archives
Xilan Wu	UCL
Amber Xavier-Rowe	English Heritage
Caterina Zaggia	UCL ISH
Jiayu Zhang	University College London-BSEER-ISH
Shixin Zhao	UCL Institute for Sustainable Heritage

## **JOIN NHSF**

### Advancing collaboration in Heritage Science

Join a community of like-minded institutions dedicated to advancing the field and maximising its impact on society.

The National Heritage Science Forum (NHSF) serves as a nexus for heritage science in the UK, bringing together organisations from different communities of practice.

Our mission is to enhance collaboration, drive change, and amplify the collective voice of the heritage science community.

#### Join NHSF to play a crucial role in:



Developing interdisciplinary approaches to complex heritage challenges.



Supporting the next generation of heritage scientists.



Enhancing the visibility of heritage science nationally and internationally.



Addressing bglobal issues like climate change adaptation for culltural heritage.

#### **Key Benefits of NHSF Membership**

- Strategic influence
- Enhanced collaboration
- Amplified impact

- Policy engagement
- Professional development
- Knowledge exchange

### COLLABORATE WITH NHSF

### Work with us to deliver the Strategic Framework for Heritage Science in the UK



The Strategic Framework for Heritage Science, 2024-27 provides a coordinated approach to enhancing the UK's heritage through science and technology for society's benefit. It focuses on three key outcomes: excellent research, an inclusive community, and measurable public value.

### Share your contributions to these three outcomes by adding information to our online noticeboards:

www.heritagescienceforum.org.uk



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## ACKNOWLEDGEMENTS

Many people have worked together to deliver this conference. In addition to our speakers, session chairs and delegates, the National Heritage Science Forum would like to take this opportunity to thank:

> The NHSF Conference Committee Poster Abstract Reviewers Poster Prize Assessors Exhibitors Bursary Sponsors Poster Prize Sponsor Workshop Partners including Speed Mentors Conference Helpers Colleagues at our host, UCL