



CLIMATE RESILIENCE HERITAGE SUMMIT

AGENDA

AGENDA

CLIMATE RESILIENCE HERITAGE SUMMIT		
OPENING REMARKS (30 mins) Chaired by Dr Ewan Hyslop (HES)		
Summit Overview	Ewan Hyslop (Head of Technical Research and Science, Historic Environment Scotland)	10:00 to 10:05 (5 mins)
Welcome Address	Jenny Gilruth MSP (Minister for Culture, Europe and International Development)	10:05 to 10:15 (10 mins)
Keynote	Kathryn Brown (Interim Director for Climate Action at the Wildlife Trusts, and Head of Adaptation at the UK Climate Change Committee)	10:15 to 10:25 (10 mins)
Slido Intro	David Harkin (Climate Change Scientist, Historic Environment Scotland)	10:25 to 10:35 (10 mins)
HAZARD SESSION (95 mins)		
Interactive Panel Discussion	<ul style="list-style-type: none"> • Fai Fung (Met Office) • Kate Crowley (University of Edinburgh) • Neil Macdonald (University of Liverpool) • Sarah Davies (Aberystwyth University) 	<p>Chair: Will Megarry (ICOMOS) feat. David Harkin</p> <p>What data is out there to help our sector understand climate hazards? We'll hear about cutting edge climate projections and their possible uses, digging into the ground and archives to track past climate change and what it might tell us about the future. We'll also hear about linking these data to disaster management and thinking about the implications for cultural heritage.</p>
Comfort Break (11:25 to 11:30) 5 mins		
Hazard Map Session	<ul style="list-style-type: none"> • Joshua Deru (3keel) • Imogen Sambrook & Matt Heard (National Trust) 	<p>Co-hosted by the National Trust and 3keel, this session will introduce the 'Hazard Map' – a tool pioneered by National Trust and now under further development with partners across the UK. The Hazard Map is a tool that can help organisations begin to understand their climate hazard exposure and how rapid change might be across the country; through understanding exposure, we can assess risk, vulnerability, impact and the need to develop adaptation strategies for our places.</p>
Lunch Break (12:10 to 13:00) 50 mins		

CLIMATE RESILIENCE HERITAGE SUMMIT

VULNERABILITY SESSION (80 mins)

Research Showcase	<ul style="list-style-type: none"> • Carolyn Hayles (Cardiff Metropolitan University) • Mark Cannata (Kassandra) • Rosalind Cornforth (The Walker Institute) 	Chair: Cathy Daly (Lincoln University) feat. Natalie O'Rourke and Anne Menary (Department for Communities) In this session a range of research projects will be showcased that each deal with understanding a component of what makes our heritage vulnerable to the impacts of climate change.	13:00 to 13:35 (35 mins)
CVI Session	<ul style="list-style-type: none"> • Scott Heron (James Cook University) 	The Climate Vulnerability Index (CVI) is a rapid assessment tool that has been specifically developed for application in World Heritage (WH) properties. We'll hear from its creators on how it works and see examples of where it has been successfully used.	13:35 to 14:00 (25 mins)
Interactive Q&A	Cathy Daly (Lincoln University) feat. Natalie O'Rourke & Anne Menary (Department for Communities)	Structured Q&A with interactive elements to engage with attendees	14:00 to 14:20 (20 mins)

Comfort Break (14:20 to 14:30) 10 mins

ADAPTATION SESSION (75 mins)

Interactive Panel Discussion	<ul style="list-style-type: none"> • Sara Crofts (ICON) • Jill Fairweather (Cadw) • David Thickett (English Heritage) • Tanya Venture (University of Exeter) 	Chair: Hannah Fluck feat. Kate Guest (Historic England) and Ruth Knight (English Heritage) How do we prepare the places we care about for the impacts of climate change? In this session we'll hear a range of views on the possible futures for our heritage. From creating plans to 'adapt' places to better withstand changes in climate through to the acceptance that not everything can be saved, and what to do then. During this session, attendees will be asked for their views as well, using Slido.	14:30 to 15:45 (75 mins)
-------------------------------------	--	---	-----------------------------

CLOSING REMARKS

Closing remarks	Ewan Hyslop (HES)	Reflections from the day	15:45 to 16:00 (15 mins)
------------------------	--------------------------	--------------------------	-----------------------------



#ClimateHeritage

OPENING SESSION

10:00 to 10:35

Session plan:

OPENING SESSION (30 mins) Chaired by Dr Ewan Hyslop		
Summit Overview	Ewan Hyslop (Head of Technical Research and Science, Historic Environment Scotland)	10:00 to 10:05 (5 mins)
Welcome Address	Jenny Gilruth MSP (Minister for Culture, Europe and International Development)	10:05 to 10:15 (10 mins)
Keynote	Kathryn Brown (Interim Director for Climate Action at the Wildlife Trusts)	10:15 to 10:25 (10 mins)
Slido Intro	David Harkin (Climate Change Scientist, Historic Environment Scotland)	10:25 to 10:35 (10 mins)

In this session:

Dr Ewan Hyslop, Head of Technical Research and Science, Historic Environment Scotland

Ewan is Head of Technical Research and Science at Historic Environment Scotland, where he manages technical programmes on historic buildings research, digital innovation, heritage science, and oversees the agency's climate change programme. Ewan is a co-chair of the international Climate Heritage Network and chair of the Climate Change Working Group under the Scottish Government's Strategy for the Historic Environment. In 2020 he was appointed Honorary Professor in the Faculty of Natural Sciences at the University of Stirling.

Ewan's top resources to share:

- 1) [A Guide to Climate Change Impacts \(historicenvironment.scot\)](#)
- 2) [A Climate Change Risk Assessment \(historicenvironment.scot\)](#)
- 3) [Climate Action Plan \(historicenvironment.scot\)](#)

Jenny Gilruth MSP, Minister for Culture, Europe and International Development

Jenny Gilruth MSP was appointed as the Minister for Culture, Europe and International Development in May 2021.

Brought up and educated in Fife, Jenny Gilruth is a graduate of Glasgow University, where she studied Politics and Sociology, and of Strathclyde University where she studied for her Postgraduate in Secondary Education (Modern Studies). Prior to being elected in 2016, Jenny worked for over a decade in education, most recently as a Head of Department in a Fife secondary school.

Prior to that, Jenny worked at Education Scotland as NQ lead for Modern Studies, supporting the development of the new qualifications and also as a Modern Studies teacher. Ms Gilruth was elected to represent the Mid Fife and Glenrothes Constituency at the 2016 election. She was previously the Minister for Europe and International Development.

Kathryn Brown, Acting Director, Wildlife Trusts

Kathryn has worked for the past 20 years in a range of policy and evidence roles on climate change. She is currently the acting Director for Climate Change at the Wildlife Trusts. Previously, Kathryn was Head of Adaptation at the Climate Change Committee (CCC) where she directed the production of the UK's Independent Assessment of Climate Risk (CCRA3) and the CCC's analysis of progress in adapting to climate change in England. Prior to 2012, she worked for ten years at Defra in a range of roles on mitigation and adaptation, including as a lead negotiator for the EU.

Kathryn's top resource to share:

- 1) [CCRA3 Summary of Risks to Cultural Heritage \(ukclimaterisk.org\)](http://ukclimaterisk.org)

David Harkin, Climate Change Scientist, Historic Environment Scotland

David is Historic Environment Scotland's in-house climate change scientist, with responsibility for understanding the risks and impacts associated with climate change, and what that means for the organisation and the properties in their care. David was one of the lead authors of HES' first Climate Change Risk Assessment (2018) of their Properties in Care and the Our Place in Time Guide to Climate Change Impacts on the Historic Environment (2019). More recently, David has been working to develop HES' first climate change adaptation plan – 'Climate Ready HES' – due to be published later in the year.

David's top resources to share:

- 1) [UK Climate Change Projections Summary for Scotland \(adaptationscotland.org\)](http://adaptationscotland.org)
- 2) [The Adaptation Capability Framework \(adaptationscotland.org\)](http://adaptationscotland.org)

#ClimateHeritage

HAZARD SESSION

10:35 to 12:10

Session plan:

HAZARD SESSION (95 mins)			
Interactive Panel Discussion	Fai Fung (Met Office)	Chair: Will Megarry (ICOMOS) feat. David Harkin What data is out there to help our sector understand climate hazards? We'll hear about cutting edge climate projections and their possible uses, digging into the ground and archives to track past climate change and what it might tell us about future. We'll also hear about linking these data to disaster management and thinking about the implications for cultural heritage.	10:35 to 11:25 (50 mins)
	Kate Crowley (University of Edinburgh)		
	Neil Macdonald (University of Liverpool)		
	Sarah Davies (Aberystwyth University)		
Comfort Break (11:25 to 11:30) 5 mins			
Hazard Map Session	Joshua Deru (3keel) Imogen Sambrook & Matt Heard (National Trust)	Co-hosted by the National Trust and 3keel, this session will introduce the 'Hazard Map' – a tool pioneered by National Trust and now under further development with partners across the UK. The Hazard Map is a tool that can help organisations begin to understand their climate hazard exposure and how rapid change might be across the country; through understanding exposure, we can assess risk, vulnerability, impact and the need to develop adaptation strategies for our places.	11:30 to 12:10 (40 mins)
Lunch Break (12:10 to 13:00) 50 mins			

In the panel discussion:

Will Megarry, ICOMOS Focal Point for Climate Change and Heritage and Senior Lecturer at Archaeology and Paleoecology in the School of Natural and Built Environment, Queen's University Belfast

Will is a landscape archaeologist, geographical information systems (GIS) and heritage management specialist with over 10 years commercial and academic experience. He has a particular interest in the application and transferability of geospatial technologies to archaeology and cultural heritage site management and protection, with a focus on the impacts of climate change. He is currently the ICOMOS Focal Point for Climate Change and Heritage. Will is also an active field archaeologist who has been working in Shetland for the last 10 years exploring stone tool production, settlement, and insularity on the edge of the European Neolithic.

Will's top resources to share:

- 1) [Heritage on the Edge \(artsandculture.google.com\)](https://artsandculture.google.com)
- 2) [CVI Africa – Climate Heritage Vulnerability at African Heritage Sites \(cvi-africa.org\)](https://cvi-africa.org)

Fai Fung, Science manager for UKCP Science into Services, Met Office and Science Research Fellow, University of Bristol

Fai has 18 years' experience in climate change adaptation and risk assessment with a focus on hydrological applications at the global and UK scale. He leads a team that provides the Defra-funded UKCP Climate Service which maintains and supports users of the UK Climate Projections. He and his team also carry out applied scientific research that endeavours to maximise the utility of climate model information to support adaptation decisions.

Fai's top resources to share:

- 1) [UK Climate Projections \(metoffice.gov.uk\)](https://metoffice.gov.uk)
- 2) [UK Climate Projections User Interface \(metoffice.gov.uk\)](https://metoffice.gov.uk)
- 3) [The UK Climate Resilience Programme \(ukclimateresilience.org\)](https://ukclimateresilience.org)
- 4) [Future weather forecast for the year 2050 \(metoffice.gov.uk\)](https://metoffice.gov.uk)

Dr Kate Crowley, Co-Director of the Edinburgh Climate Change Institute and Lecturer in Climate Risk and Resilience, University of Edinburgh

Kate is a Lecturer in Climate Risk and Resilience at the University of Edinburgh and joined the Edinburgh Climate Change Institute (ECCI) team in August 2020. She is Deputy Programme Director for the MSc in Carbon Management. As Co-Director, Kate aims to enable effective collaboration across the science-policy-practitioner interface for effective climate change adaptation and resilience.

Kate's top resources to share:

- 1) [Future of Our Pasts \(ICOMOS.org\)](https://icomos.org)
- 2) [Climate Change Adaptation and Cultural Heritage \(ed.ac.uk\)](https://ed.ac.uk)
- 3) [Cultural Heritage and Climate Change Adaptation \(pcancities.org.uk\)](https://pcancities.org.uk)

Professor Neil Macdonald, Professor, University of Liverpool

Neil is Professor of Geography at the University of Liverpool. His research focuses on developing a better understanding of how climatological, hydrological and geophysical extremes are recorded and have historically impacted societies. It explores how individuals and communities have historically adapted and responded to extreme weather, but also periods of mundane weather. The research spans several centuries using a range of information sources including archives, epigraphic markings, environmental reconstruction, and instrumental information.

Neil's top resources to share:

- 1) [The CLANDAGE Project \(liverpool.ac.uk\)](https://liverpool.ac.uk)
- 2) [The TEMPEST Database \(nottingham.ac.uk\)](https://nottingham.ac.uk)
- 3) [Chronology of British Hydrological Events \(cbhe.hydrology.org.uk\)](https://cbhe.hydrology.org.uk)

Professor Sarah Davies, Head of Department, Geography and Earth Sciences, Aberystwyth University

Sarah is Professor and Head of the Department of Geography and Earth Sciences at Aberystwyth University. Sarah's research focuses on human-environment interactions and climate variability over a range of timescales, from the recent historical past to millennia. She leads the Aberystwyth University contribution to the EU Ireland-Wales programme funded CHERISH project, which brings together geographers, archaeologists and geoscientists to investigate the impacts of climate change on coastal heritage around Ireland and Wales.

In the hazard map session:

Josh Deru, Climate Change Consultant, 3Keel LLP

Josh works as part of the Climate Change team at 3Keel, specialising in technical research and analysis, communication of complex data, and strategic climate guidance. His work focuses on accelerating climate action and sparking genuine, systemic change across public, private and NGO sectors. Josh has worked extensively with the heritage sector to develop strategies for mitigation of and adaptation to the climate crisis and led the development of the hazard maps and risk framework.

Josh's top resources to share:

- 1) [A game changer' – 3Keel and National Trust map climate risks to historic UK sites \(3keel.com\)](#)
- 2) [A Climate Change Risk Assessment \(historicenvironment.scot\)](#)
- 3) [3Keel Twitter / Josh's Twitter](#)

Imogen Sambrook, MSc MCIfA IHBC, National Heritage & Climate Consultant, National Trust

Imogen is a heritage consultant with background in archaeology, environmental science and master-planning. Her previous work areas include heritage at risk, heritage in the farmed environment, environmental management and technology, master-planning for large estates and heritage significance and impact assessments. Now working on the adaptation approach for the National Trust's assets and activity in order to build climate resilience across our places.

Imogen's top resources to share:

- 1) [Tackling Climate Change Together \(nationaltrust.org.uk\)](#)
- 2) [Climate Change Adaptation Manual \(naturalengland.org\)](#)
- 3) [Managing Change in the Historic Environment: Windows \(historicenvironment.scot\)](#)

Professor Matt Heard, National Specialist Land Use & Ecosystem Services, National Trust

Matt is a terrestrial ecologist whose research covers fundamental and applied areas. He has led UK and international collaborative research projects focused on environmental change impacts on populations, community interactions, ecosystem function and resilience. He currently is working on strategic approaches for management of the National Trust's land assets and activity in order to deliver nature recovery and climate resilience.

#ClimateHeritage

VULNERABILITY SESSION

13:00 to 14:20

Session plan:

VULNERABILITY SESSION (80 mins)			
Research Showcase	<p>Carolyn Hayles (Cardiff Metropolitan University)</p> <p>Mark Cannata (Kassandra)</p> <p>Rosalind Cornforth (The Walker Institute)</p>	<p>Chair: Cathy Daly (Lincoln University) feat. Natalie O'Rourke and Anne Menary (Department for Communities)</p> <p>In this session a range of research projects will be showcased that each deal with understanding a component of what makes our heritage vulnerable to the impacts of climate change.</p>	13:00 to 13:35 (35 mins)
CVI Session	<p>Scott Heron (James Cook University)</p>	<p>The Climate Vulnerability Index (CVI) is a rapid assessment tool that has been specifically developed for application in World Heritage (WH) properties. We'll hear from its creators on how it works and see examples of where it has been successfully used.</p>	13:30 to 14:00 (25 mins)
Interactive Q&A	<p>Cathy Daly feat. feat. Natalie O'Rourke & Anne Menary (Department for Communities)</p>	<p>Structured Q&A with interactive elements to engage with attendees</p>	14:00 to 14:20 (20 mins)

In the research showcase:

Dr Cathy Daly, Senior Lecturer in Conservation, University of Lincoln and Research Consultant, Carrig Conservation Ltd.

Cathy divides her time between being a senior lecturer in conservation at the University of Lincoln and a research consultant with Carrig Conservation International. Cathy's doctoral research focussed on assessing the vulnerability of Ireland's World Heritage sites to climate change. She was lead author of the government of Ireland's Climate Change Adaptation Strategy for Built and Archaeological Heritage in 2019, is a bureau member of the ICOMOS International working group on CC and co-leads the WG4 HiCLIP project for the Climate Heritage Network.

Cathy's top resources to share:

- 1) [Preliminary results from a legacy indicator tool for measuring climate change related impacts on built heritage | Heritage Science \(springeropen.com\)](#)
- 2) [A Framework for Assessing the Vulnerability of Cultural Heritage Sites to Climate Change available from IP Store \(lincoln.ac.uk\)](#)
- 3) [Climate Change Adaptation Sectoral Plan for Built and Archaeological Heritage \(Department of Culture Heritage and the Gaeltacht\)](#)

Carolyn Hayles, Professor of Environmental and Sustainable Design for the Built Environment, Cardiff School of Art and Design, Cardiff Metropolitan University

Carolyn completed her PhD on the weathering and conservation of historic building stone, a project funded by the Getty Foundation, at the University of Glasgow between 1992-5. She subsequently spent eight years at BRE Scotland, specialising in Built Heritage research. Since 2004, Carolyn has been employed in academia, working internationally as well as in the UK. She has a particular research interest in education for sustainability and the development and delivery of sustainable decision-making approaches and frameworks. Carolyn is currently a Professor at Cardiff Metropolitan University and a Welsh Government Research Fellow, investigating how resilient buildings in the UK and Wales are to the challenges associated with a changing climate.

Mark Cannata, CEO and co-founder, Kassandra Srls

Mark established Kassandra with Antonio Stornello in 2019. Mark is an architect and has over twenty years' experience in practice. He founded his architectural practice, Zero Zero, in 2013 in New Zealand and opened the Italian office in 2015. Mark has been responsible for the delivery of projects that often involve careful interventions in historic contexts, such as London's King's Cross Station. Mark is currently a member of the Twentieth Century Society, the Society for Protection of Ancient Buildings and a committee member for the UK of Europa Nostra, the pan-European Federation for Cultural Heritage Organizations. His focus is combining Sustainability and Heritage: he has been for many years an Architect accredited in building Conservation and is also a LEED AP® BD+C.

Mark's top resources to share:

- 1) [The Kassandra Project \(kassandraproject.org\)](http://kassandraproject.org)
- 2) [The Kassandra Project Twitter \(twitter.com\)](https://twitter.com/kassandraproject)
- 3) [The Kassandra Project Linked In \(linkedin.com\)](https://www.linkedin.com/company/kassandraproject/)
- 4) [The Kassandra Project Facebook \(facebook.com\)](https://www.facebook.com/kassandraproject/)

Professor Rosalind Cornforth, Director, Walker Institute at the University of Reading

Rosalind is the Director of the Walker Institute which carries out global interdisciplinary research and innovative capacity building to advance knowledge and deliver a better understanding of future climate and its impacts. The Institute bridges the gap between primary science and its applications in public and private sector policy, by developing tools that allow non-experts to engage with evidence-based scenarios, evaluate risk and plan accordingly. Rosalind has proven leadership expertise working on the ground in developing countries, designing early warning systems and implementing large-scale interdisciplinary projects around managing for climate resilience.

Rosalind's top resources to share:

- 1) [Gather Town for the UKRI COP26 Resilience Programme \(gather.town\)](http://gather.town)
- 2) [Storylines for decision-making: climate and food security in Namibia \(tandfonline.com\)](https://www.tandfonline.com)
- 3) [Learning To Co-Produce \(walker.ac.uk\)](http://walker.ac.uk)

In the CVI session:

Scott Heron, Associate Professor in Physics, College of Science and Engineering, James Cook University

Scott Heron is an environmental physicist who researches coastal oceanography and its linkages with ecology and society. His on-going work investigates effects of climate change on marine ecosystems, and on natural and cultural heritage, particularly through co-developing and applying the Climate Vulnerability Index (CVI).

Jon Day, Adjunct Senior Research Fellow, ARC Centre of Excellence for Coral Reef Studies, James Cook University

Jon Day was an Australian protected area planner and manager for 39 years; the last 28 years were in the Great Barrier Reef Marine Park. Following his retirement in 2014, Jon completed a PhD at James Cook University and co-developed the Climate Vulnerability Index (CVI), a rapid assessment tool applicable to all types of World Heritage properties.

Scott and Jon's top resources to share:

- 1) [CVI Update Newsletters \(cvi-heritage.org\)](http://cvi-heritage.org)
- 2) [CVI for Our World Heritage: Sustainability \(youtube.com\)](https://www.youtube.com/watch?v=...)
- 3) [Climate Risk Assessment for the Heart of Neolithic Orkney World Heritage Site \(historicenvironment.scot\)](http://historicenvironment.scot)

#ClimateHeritage

ADAPTATION SESSION

14:30 to 15:45

Session Plan:

ADAPTATION SESSION (80 mins)			
Interactive Panel Discussion	Sara Crofts (ICON)	Chair: Hannah Fluck (Historic England) feat. Kate Guest (Historic England) and Ruth Knight (English Heritage) How do we prepare the places we care about for the impacts of climate change? In this session we'll hear a range of views on the possible futures for our heritage. From creating plans to 'adapt' places to better withstand changes in climate through to the acceptance that not everything can be saved, and what to do then. During this session, attendees will be asked for their views as well, using slide.	14:30 to 15:45 (70 mins)
	Jill Fairweather (Cadw)		
	David Thickett (English Heritage)		
	Tanya Venture (University of Exeter)		
Closing Remarks	Ewan Hyslop (Head of Technical Research and Science, Historic Environment Scotland)		15:45 to 16:00

In the Interactive Panel Discussion:

Dr Hannah Fluck, Head of Environmental Strategy, Historic England

Hannah oversees Historic England's strategic work on climate change and is author of Historic England's first Climate Change Adaptation report. She is a contributing author to the third UK Climate Change Risk Assessment, a reviewer of the IPCC special report on Climate Change and Land and is a selected participant of the ICOMOS/IPCC/UNESCO Co-Sponsored Meeting on Culture, Heritage and Climate Change. She is also a founding steering committee member of the Climate Heritage Network.

Hannah's top resources to share:

- 1) [Climate Change Adaptation Report \(historicengland.org.uk\)](https://www.historicengland.org.uk)
- 2) [Independent Assessment of UK Climate Risk \(CCRA3\) \(ukclimaterisk.org\)](https://www.ukclimaterisk.org)
- 3) [When Loss is More: From Managed Decline to Adaptive Release \(tandfonline.com\)](https://www.tandfonline.com)

Sara Crofts, Chief Executive, Icon (the Institute of Conservation)

Sara trained as an architect and specialised in historic building conservation. After gaining experience in the repair of historic buildings she moved into the voluntary sector taking on roles at the SPAB and the Heritage Lottery Fund. She is now Chief Executive of Icon, chair of Europa Nostra UK and a member of the Climate Heritage Network Steering Committee.

Sara's top resources to share:

- 1) [Conservation and Sustainability \(icon.org.uk\)](https://www.icon.org.uk)
- 2) [Sustainable Museum Lighting Q&A \(icon.org.uk\)](https://www.icon.org.uk)
- 3) [Icon Environmental Sustainability Network: Green Solvents Webinar](https://www.icon.org.uk)

Jill Fairweather, Historic Environment Skills Manager, Cadw

Jill worked for Powys County Council for 13 years as a Planning Officer and Built Heritage Conservation Officer. She joined Cadw in 2006, first as an Inspector of Historic Buildings and more recently as the Historic Environment Skills Manager. She has a particular interest in sustainability and much of her current work is focussed on climate change adaptation and the skills needed for mitigation. She is a member of the Core Internal Adaptation Group that developed the Welsh Government's adaptation plan, Prosperity for all: A climate conscious Wales, which was published in 2019. She is also a longstanding member of the Wales Historic Environment Group's Climate Change Subgroup, which published the Historic Environment and Climate Change in Wales Sector Adaptation Plan in 2020.

Jill's top resources to share:

- 1) [Adapting to Climate Change | Cadw \(gov.wales\)](#)
[Addasu I Newid Hinsawdd | Cadw \(llyw.cymru\)](#)
- 2) [Flooding & Historic Buildings in Wales | Cadw \(gov.wales\)](#)
[Llifogydd ac Adeiladau Hanesyddol yng Nghymru | Cadw \(llyw.cymru\)](#)
- 3) [BS8631:2021 Adaptation to climate change – Using adaptation pathways for decision making – Guide, BSI, 2021](#)

David Thickett, Senior Conservation Scientist, English Heritage

David has a degree in natural sciences, PhD in archaeological conservation and chemistry and worked for two years in industrial ceramics research. He joined the British Museum in 1990, specialising in preventive conservation and inorganic materials conservation research. David joined English Heritage in 2003 as senior conservation scientist, mainly researching preventive conservation.

David's top resources to share:

- 1) [Tools for Educated Sustainable Choices \(stich.culturalheritage.org\)](#)

Tanya Venture, PhD Student, University of Exeter and Historic England

Tanya is a collaborative doctoral partnership PhD student looking at how innovative and creative methodologies can be used to open dialogues between heritage professionals and the wider public around the inevitable loss of heritage assets on the coast.

Tanya's top resources to share:

- 1) [Articulating Loss: A Thematic Framework for Understanding Coastal Heritage Transformations | The Historic Environment: Policy & Practice \(tandfonline.com\)](#)
- 2) [Green Thinking: Climate Change and Heritage podcast \(bbc.co.uk\)](#)
- 3) Curated Decay by Caitlin DeSilvey

#ClimateHeritage

STEERING GROUP

Anne Menary, Assistant Director, Department for Communities' Historic Environment Division (NI)

Anne is currently an Assistant Director working for the Department for Communities. She has over 20 years' experience working as an architect. For the past 12 years, she has worked in Historic Environment Division on a number of conservation projects including repairs to historic buildings, planning application consultations and the designation of buildings of special architectural or historic interest. Part of her focus in recent years has been on climate change hazards and how these may affect heritage assets in Northern Ireland.

David Harkin, Climate Change Scientist, Historic Environment Scotland

David is Historic Environment Scotland's in-house climate change scientist, with responsibility for understanding the risks and impacts associated with climate change, and what that means for the organisation and the properties in their care. David was one of the lead authors of HES' first Climate Change Risk Assessment (2018) of their Properties in Care and the Our Place in Time Guide to Climate Change Impacts on the Historic Environment (2019). More recently, David has been working to develop HES' first climate change adaptation plan – 'Climate Ready HES' – due to be published later in the year.

David's top resources to share:

- 1) [UK Climate Change Projections Summary for Scotland \(adaptationscotland.org\)](https://adaptationscotland.org)
- 2) [The Adaptation Capability Framework \(adaptationscotland.org\)](https://adaptationscotland.org)

Imogen Sambrook MSc MCIfA IHBC, National Heritage & Climate Consultant, National Trust

Imogen is a heritage consultant with background in archaeology, environmental science and master-planning. Her previous work areas include heritage at risk, heritage in the farmed environment, environmental management and technology, master-planning for large estates and heritage significance and impact assessments. Imogen is now working on the adaptation approach for the National Trust's assets and activity in order to build climate resilience across our places.

Imogen's top resources to share:

- 1) [Tackling Climate Change Together \(nationaltrust.org.uk\)](https://nationaltrust.org.uk)
- 2) [Climate Change Adaptation Manual \(naturallengland.org\)](https://naturallengland.org)
- 3) [Managing Change in the Historic Environment: Windows \(historicenvironment.scot\)](https://historicenvironment.scot)

Janine Ballantyne, Policy Officer, National Trust for Scotland

Janine is leading on issues for the Trust concerning climate change, environmental issues, landscape, nature and accessibility.

Jill Fairweather, Historic Environment Skills Manager, Cadw

Jill worked for Powys County Council for 13 years as a Planning Officer and Built Heritage Conservation Officer. She joined Cadw in 2006, first as an Inspector of Historic Buildings and more recently as the Historic Environment Skills Manager. She has a particular interest in sustainability and much of her current work is focussed on climate change adaptation and the skills needed for mitigation. She is a member of the Core Internal Adaptation Group that developed the Welsh Government's adaptation plan, Prosperity for all: A climate conscious Wales, which was published in 2019. She is also a

longstanding member of the Wales Historic Environment Group's Climate Change Subgroup, which published the Historic Environment and Climate Change in Wales Sector Adaptation Plan in 2020.

Jill's top resources to share:

- 1) [Adapting to Climate Change | Cadw \(gov.wales\)](#)
[Addasu I Newid Hinsawdd | Cadw \(llyw.cymru\)](#)
- 2) [Flooding & Historic Buildings in Wales | Cadw \(gov.wales\)](#)
[Llifogydd ac Adeiladau Hanesyddol yng Nghymru | Cadw \(llyw.cymru\)](#)
- 3) [BS8631:2021 Adaptation to climate change – Using adaptation pathways for decision making – Guide, BSI, 2021](#)

Kate Guest, Senior Policy Adviser, Historic England

Kate Guest is a Senior Policy Adviser in the Strategy and Listing Department at Historic England. She has worked at Historic England for ten years and her current role focuses on threats to the historic environment. She holds an MA in Latin and Ancient History and an MLitt in Ancient History from the University of St Andrews, and an MSc in Museum Theory and Practice from the University of Glasgow.

Kate's top resource to share:

- 1) [Climate Change and Cultural Heritage Webinar Series \(historicengland.org.uk\)](#)

Natalie O'Rourke RIBA ARB, Senior Conservation Architect, Heritage Buildings Designation Branch of the Historic Environment Division within the Department for Communities (NI)

Qualified as an Architect for nearly 20 years and having previously been an Associate in a private architectural practice, Natalie has worked as a Conservation Architect for the Historic Environment Division for the past 12 years. This experience spans across many disciplines including development planning casework, grant and funding works and repairs to historic buildings, designation of buildings and now a focus on climate change strategies for the protection of heritage from climate change impacts in NI. Natalie has also worked extensively in the promotion of built heritage, having been National Co-ordinator for Northern Ireland's European Heritage Open days in 2013 and 2014 on behalf of the Department.

Natalie's top resources to share:

- 1) [climatenorthernireland.org.uk](#)
- 2) [Heritage and Climate Change \(communities-ni.gov.uk\)](#)
- 3) [Sectoral Adaptation Planning from Department of the Environment, Climate and Communications \(gov.ie\)](#)

Dr Mairi Davies, Climate Change Policy Manager, Historic Environment Scotland

Mairi is the Climate Change Policy Manager at Historic Environment Scotland, supporting the organisation in its leadership on climate change. An archaeologist, she is a graduate of Edinburgh and Durham Universities with a particular interest in the relationship between human activity and environmental change. Mairi is on the Steering Groups for Dynamic Coast: Scotland's National Coastal Change Assessment and Climate Vulnerability Index (CVI) Old and New Towns of Edinburgh World Heritage Site and CVI Africa. She is one of the principal authors of a major report published in 2018 on climate change risk assessment on the Historic Environment Scotland Estate. She is a co-author of the 2019 scientific review for the Marine Climate Change Impacts Partnership of the impacts of climate change on cultural heritage in the UK marine and coastal zone.

Mairi's top resources to share:

- 1) [Dynamic Coast \(dynamiccoast.com\)](http://dynamiccoast.com)
- 2) [Guide to Building Maintenance in a Changing Climate \(adaptationscotland.org.uk\)](http://adaptationscotland.org.uk)

Dr Hannah Fluck, Head of Environmental Strategy, Historic England

Hannah oversees Historic England's strategic work on climate change and is author of Historic England's first Climate Change Adaptation report. She is a contributing author to the third UK Climate Change Risk Assessment, a reviewer of the IPCC special report on Climate Change and Land and is a selected participant of the ICOMOS/IPCC/UNESCO Co-Sponsored Meeting on Culture, Heritage and Climate Change. She is also a founding steering committee member of the Climate Heritage Network.

Hannah's top resources to share:

- 1) [Climate Change Adaptation Report \(historicengland.org.uk\)](http://historicengland.org.uk)
- 2) [Independent Assessment of UK Climate Risk \(CCRA3\) \(ukclimaterisk.org\)](http://ukclimaterisk.org)
- 3) [When Loss is More: From Managed Decline to Adaptive Release \(tandfonline.com\)](http://tandfonline.com)

Ruth Knight, Head of Climate & Sustainability, English Heritage

Ruth trained in architecture before doing a Masters in Historic Conservation. After a period working in urban design, conservation and community engagement she developed and led the Church of England Environment Programme before working on climate adaptation and green infrastructure at the Greater London Authority. She recently joined English Heritage as the new Head of Climate and Sustainability.

Ruth's top resources to share:

- 1) [Sustainability - English Heritage \(english-heritage.org.uk\)](http://english-heritage.org.uk)
- 2) [Heritage Responds – Taking positive action on climate change \(historicenvironmentforum.org.uk\)](http://historicenvironmentforum.org.uk)
- 3) [The Climate Question podcast \(bbc.co.uk\)](http://bbc.co.uk)
- 4) [Mothers of Invention podcast \(mothersofinvention.online\)](http://mothersofinvention.online)