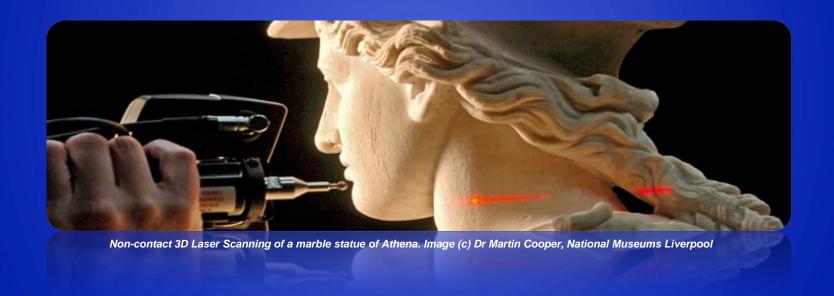


## The UK's Science and Heritage Strategic Research Programme:



#### **Building Capacity, Creating Impact**



#### **Professor May Cassar**

Centre for Sustainable Heritage, University College London



















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### Managing Material Change Symposium

Institute of Education,
London
December 2007





Science and Heritage Programme





Looking Through the Prism:
Perspectives on Research in the
Arts and Humanities and Heritage
Science

Tate, London June 2008



**Art of Hard Science**Joint Science and Heritage

Programme/STFC event
Daresbury Laboratory
February 2008



**Speed Dating for Research** 

Joint Science and Heritage
Programme/Institute of Conservation event
University College London
October 2007



















Shaping the Heritage Science Community: Research Clusters Symposium

Aston University and Soho House, Birmingham June 2009



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### Collaborative Research Studentship Symposium

September 2010

Above – Science and Heritage Programme PhD students and supervisors. Right – Post Doctoral Fellows and members of the Programme's Advisory Panel



All images (c) Science and Heritage Programme



Science and Heritage Programme





#### **NUMBER OF APPLICANTS TO THE PROGRAMME**

(FUNDED left AND TOTAL INC. UNFUNDED right)

	PhDs	Networks	Post-Doctoral Fellowships	Interdisciplinary Projects
Individuals engaged in applications for each call	<b>17/</b> 45	<b>31/</b> 104	9/37	<b>32</b> /82
Individuals applying to a call more than once (or to more than 1 call)	<b>0</b> /3	4/7	1/1	5/17
New individuals engaging with Programme calls	<b>17</b> /45	<b>27</b> /97	<b>8</b> /36	27/65
Cumulative total of individuals engaging with Programme calls	<b>17/</b> 45	<b>44</b> /142	<b>52/178</b>	79/243







#### NUMBER OF INSTITUTIONS APPLYING TO THE PROGRAMME

(FUNDED left AND TOTAL INC. UNFUNDED right)

	PhDs	Networks	Post-Doctoral Fellowships	Interdisciplinary Projects
Institutions with applicants to the Programme	<b>15</b> /36	19/51	<b>8</b> /28	20/35
Institutions with individuals applying to a call more than once (or applying to a previous call)	5/10	<b>4</b> /29	5/6	8/19
New institutions with applicants engaging with the Programme	<b>15</b> /36	14/37	3/6	7/12
Cumulative total of institutions with researchers engaging in the Programme	<b>15/</b> 36	<b>29/</b> 73	<b>32/</b> 79	44/86







Interdisciplinary Research Projects					
PROJECT TITLE	CO INVESTIGATOR INSTITUTIONS	PROJECT PARTNERS (HERITAGE)	PROJECT PARTNERS (INDUSTRY)	OTHER COLLABORATORS & STAKEHOLDERS	
The Detection of Archaeological residues using Remote Sensing Techniques (DART) (PI: University of Leeds)	University of Winchester University of Bradford University of Birmingham University of Nottingham	Historic Scotland Institute of Field Archaeologists RCAHMS RCAHMW Perth and Kinross Heritage Trust	Utsi Electronics Ltd Scott Wilson Ltd Ingegneria dei Sistemi UK Ltd Air Photo Services	Royal Agricultural College, University of Glasgow, British Geological Survey, Rutherford Appleton, University of Exeter, Council for British Archaeology, Ludwig Boltzmann Institute, Porton Down Defence Science and Technology Laboratory, Nottingham Trent University, University of Hull	
Collections Demography On Dynamic Evolution of Populations of Objects  (PI: University College London)	University College London, University of East Anglia, The National Archives	English Heritage, Library of Congress (USA) Nationaal Archief (Netherlands)		University of Leicester Manchester Museum	
Evidence-based Condition-Monitoring Strategy for Preservation of Heritage Iron  (PI: Cardiff University)	University of Manchester	English Heritage, Mary Rose Trust, SS Great Britain Trust	Dorothea Restorations Eura Conservation Ltd	Museum of London Centre for Business Relationships, Accountability, Sustainability and Society (BRASS)	
PARNASSUS: Ensuring integrity, preserving significance: value based flood resilience for protection of cultural heritage from climate change impact (PI: University of Bath)	University of Bath University of Bristol University of Southampton	The National Trust National Trust for Scotland ICOMOS-ISCARSAH ICOMOS-ISCEAH Historic Scotland	Ecclesiastical Insurance Gifford Eatec Ltd ARC Chartered Architects	BRE Watford UNESCO	
Heritage Smells! (PI: University of Strathclyde)	The British Museum UCL The British Library	National Museums Scotland English Heritage National Archives of Scotland	Owlstone Ltd		
The Next Generation of Optical Coherence Tomography (OCT) for Art Conservation - in situ non-invasive imaging of subsurface microstructure of objects (PI: Nottingham Trent University)	The National Gallery University of Southampton	English Heritage	Gooch & Housegow Plc		
Representing Re-Formation: Reconstructing Renaissance Monuments (PI: University of Leicester)	University of Leicester, University of Oxford	Yale University Center for British Art English Heritage			





ersity College London			
English Heritage			
Government of the Republic of Benin			
UNESCO World Heritage Centre, Paris			
lational Archives			
University of Cardiff			
ersity of Warwick			
Universiteit Gent (Belgium)			
Rose Trust			
Daresbury Laboratory			
ersity College London			
sh Heritage			
ersity of Bradford			
ersity of Manchester			
Museums and Art Gallery			
Horniman Museum			
Ken Hawley Collection Trust, University of Sheffield			
Archaeological Trust			
tauld Institute of Art			
sh Heritage			
angarh Museum Trust, Jodphur (India)			
rial College London			
The National Gallery			
h Museum			
ersity of Reading			
Institut Lumière Extrême (France)			
e de Recherche et de Restauration des Musées de France			
ersity of Manchester			
Getty Conservation Institute			







# Creating Impact





#### **Creating Impact**

**Research Clusters** 



**EGOR: Environmental Guidelines: Opportunities and Risks** 

The National Archives
Award holder – Nancy Bell



All images (c) Dr Matija Strlic, Centre for Sustainable Heritage, UCL.





#### **Creating Impact**

#### Collaborative Research Studentships (PhDs)



#### The Lifetime of Colour Photographs in Mixed Archival Collections

Centre for Sustainable Heritage, UCL/ The National Archives

Award holder - Dr Matija Strlic; Student - Ann Fenech



Above: CRS student Ann Fenech discusses her project with EU Commissioner Marie Gaughan-Quinn during the Commissioner's recent visit to UCL. Centre (top): Samples prepared for accelerated degradation. Centre (bottom): Rapid non-destructive characterisation of colour photographs using Near Infrared Spectroscopy (NIR). Far right: Ann Fenech (left) and Ana Martins (right; Museum of Modern Art, New York) working on a non-destructive method for dating photographic materials using Near infrared Spectroscopy. Images: Centre for Sustainable Heritage, UCL; Ann Fenech; Dr Matija Strlic, UCL











#### **Creating Impact**





University of East Anglia/English Heritage





Top: English Heritage-owned Brodsworth Hall, South Yorkshire. Image © P. Lankester. Right: The library at Brodsworth Hall, where future damage has been predicted. Image © English Heritage. Left: The Cartoon Gallery at Knole, a National Trust property in Kent. Image © The National Trust.







## Creating Impact Post Doctoral Fellowships



#### **ACCESSIBLE HERITAGE - Remote trans-continental heritage support system**

Centre for Sustainable Heritage, UCL. Award holder - Dr Henoc Agbota



Cotonou, the economical capital of Benin, West Africa. No study has been conducted so far to provide quantitative evidence of the impact of pollution on heritage assets. Right: deployment site; Palace of King Glele (top) one of the twelve palaces of the World Heritage site of Abomey and Apsley House, London (bottom) constantly exposed to traffic-generated pollution. Credits: H. Agbota; J. Baxter; M. Strlic









Tewkesbury summer 2007 floods

#### **Creating Impact**



#### Interdisciplinary Research Projects

PARNASSUS: Ensuring integrity, preserving significance: value based flood resilience for protection of cultural heritage from climate change impact

University of Bath. Award holder - Dr Dina D'Ayala



LISFLOOD-FP model using
LIDAR data at 2m resolution.
Image © Paul Bates, University
of Bristol.

