

Modelling Collections and Their Environments

Yun Liu¹, Robert J. Koestler², Nancy Bell³, Dirk Andreas Lichtblau⁴, John Mitchell⁵, Matija Strlič¹

1 UCL Institute for Sustainable Heritage, University College London, UK

2 Museum Conservation Institute, Smithsonian Institution, United States

3 The National Archives, UK

4 Lichtblau e.K. Dresden, Germany

5 Department of Electronic and Electrical Engineering, UCL, London, UK

Corresponding author: vun.liu.14@ucl.ac.uk

Introduction

Significant recent advances in environmental and material modelling have accompanied the publication of a recent environmental guideline (PAS 198) [1] that recommends institutions to develop individual environmental policies tailored to their collections, which avoid fixed environmental set points and optimise preservation outcomes. In collaboration with the Smithsonian's Museum Conservation Institute (US), the National Archives (UK) and the company Lichtblau e.K. (Germany), this research is working towards modelling collection change and building an integrated software platform to serve as a tool for data upload and interpretation, scenario evaluation as well as for development of environmental strategies for management of diverse collections. We are currently collecting views on inputs and outputs of the platform.

Please arrange the tags and tweet a photograph with the resulting arrangement to CollectionsModelling @CollModel to prioritise the development of models. Your participation is greatly appreciated and comments are welcome at any time.



Acknowledgements

Help us prioritise: (i) Select one sticker per category

References [1] PAS 198, 2012. Specification for Environmental Conditions for Cultural Collections. British Standards Institute, London

This project is supported by the EPSRC Centre for Doctoral Training in Science and eering in Arts, Heritage and Archaeology at University College London, in collab with the Smithsonian's Museum Conservation Institute, The National Archives and Lichtblau







[2] Strik, M., meace, S., Bayos, M., Sasa, M., 2023. Damage function in refrage Section: Address in Concentration and Section 2010 (2017).
[3] Strik, M., Grossi, C.M., Dillon, C., Bell, N., Fouseki, K., Brimblecombe, P., Menart, E., Ntanos, K., Lindsay, W., Thickett, D., France, F., de Bruin, G., 2015. Damage function for historic paper. Part III: Isochrones and demography of collections. Heritage Science 3, #40.

[2] Strlič, M., Thickett, D., Taylor, L., Cassar, M., 2013. Damage Functions in Heritage Science. Studies in Conservation 58, 80–87