



ENGINEERING THE PAST TO BUILD A RESILIENT FUTURE

8.30 - 9.00 AM: Registration and Refreshments

9.00 - 9.05 AM: Welcome/Induction

9.05 - 9.15 AM: Opening Remarks by Prof Richard Thomas9.15 - 10.00 AM: Introductory Keynote: Prof Ian Haynes

Engineering and the future of the past: Perspectives from Rome Transformed

10.00 - 10.20 AM: Coffee Break

10.20 - 11.40 AM: Computational modelling to engineer the past

Dr Iza Romanowska

Introduction to agent-based modelling for studying the past

Dr Andreas Angourakis

Crop dynamics in the Indus village model

Mr Joe Hirst

An Agent-based model of pre-Columbian land-use in the monumental mound region of Amazonian Bolivia

11.40 - 12.00 PM: Coffee Break

12.00 - 1.20 PM: Conservation and preservation in the context of changing climate (VIRTUAL)

Dr Alice Kelley

Working to preserve indigenous cultural heritage on the Maine (USA) coast in a changing climate

Dr Patrick Roberts

Exploring the tropical past and its relevance to contemporary land management and urban planning

Dr Andre Colonese

Bridging archaeology and marine conservation in the neotropics

1.20 - 2.10 PM: LUNCH

2.10 - 3.30 PM: Machine Learning, AI, and Archaeology

Dr Mike Buckley

Machine learning for species identification of faunal remains for ancient-to-modern biodiversity baselines

Dr Iris Kramer

Archaeology at a revolutionary scale: National mapping of ancient landscapes with artificial intelligence, earth observation and historic mapping

Dr Daniel van Helden

Arch-I-Scan: using machine learning to better understand Roman foodways

3.30 – 3.50 PM: Coffee Break

3.50 - 4.35 PM: Concluding Keynote: Prof Dolores Piperno

The Past (and Future?) of our Crop Plants & Their Wild Ancestors in Changing Global Environments

4.35 - 4.50 PM: Concluding Remarks / Awards

5.00 PM: End



