

Workshop

“Archaeology & Technology”

Pompeii, 25th NOVEMBER 2025

Auditorium, entrance piazza Esedra

Agenda

09.00 | 09.30 **Registration of participants at the Auditorium**

09.30 | 10.10 **Welcome session**

Gabriel Zuchtriegel, *Archaeological Park of Pompeii*

Andrea Prota, *Ordine degli Ingegneri Napoli*

Lorenzo Capobianco, *Ordine degli architetti, pianificatori, paesaggisti, conservatori, Napoli*

Luigi Oliva, *Istituto Centrale per il Restauro*

Marcello Pelillo, *Università di Venezia Ca' Foscari & RePAIR Project coordinator*

10.10 | 10.45 **1st Technical session: Presentation of RePAIR research results**

10.45 | 11.00 *Coffee break*

11.00 | 11.15 **Award Ceremony for Professional Update Certificates for Engineers**

11.15 | 11.45 **2nd Technical session: Presentation of RePAIR research results**

11.45 | 12.30 Visit to the RePAIR Lab “Casina Rustica” where is located the robotic system

12.30 | 13.30 *Light lunch in Casina dell'Aquila*

13.40 | 14.30 **European research projects**

Chairs: Arianna Spinosa, Alessandra Zambrano

DIGITALIA - Digital solutions for sustainable and disaster resilient heritage management

Giovanni Issini, Cecilia Gobbi, *Soprintendenza Archeologia, Belle Arti e Paesaggio per le Province di Ascoli Piceno, Fermo e Macerata*

NERITES Systematic autonomous remote surveying of underwater cultural heritage monuments and artifacts using non-destructive, cost-effective and transportable digital solutions

Carlotta Sacco Perasso, *Soprintendenza Nazionale per il Patrimonio Subacqueo*

14.30 | 15.30 **Research projects on going at the archeological Park of Pompeii**

Monitoring the archaeological Park of Pompeii

Chairs: Vincenzo Calvanese, Alessandra Zambrano

Innovative Approaches for Monitoring the Pompeii Site: Methodologies and Results

Luigi Petti, *Università di Salerno*

Robotics for Monitoring: RINGHIO

Agustina Scaro, *Istituto Italiano di Tecnologia*

Reconstructing the Past Artificial Intelligence and Robotics Meet Cultural Heritage

15.30 | 16.30 *Seismic Protection: Geotechnical Engineering, Structures, Structures for museum exhibitions*
Chairs: Vincenzo Calvanese, Alessandra Zambrano

Vulnerability assessment and seismic risk mitigation of cultural heritage
Marco Di Ludovico, *Università di Napoli Federico II*

Out-of-plane vulnerability of archaeological walls in Pompeii
Francesca Ceroni, *Università di Napoli Parthenope*

Seismic Protection of statues in Oplontis: the use of SMA
Alessandra Aprile, *Università di Ferrara*.

16.30 | 16.45 *Coffee break*

16.45 | 17.15 *Monitoring –Conservation: non-structural elements- The Female Forum Bath*
Chairs: Anna Onesti, Raffaele Martinelli, Alessandra Zambrano

Geometric-structural survey and dynamic analysis of Female bath-building
Dora Foti, *Politecnico di Bari*

Plantoids in Pompeii: Conservation of detached frescoes of the Caledarium of Pompeii using self-growing robot intervention
Barbara Mazzolai, *Istituto Italiano di Tecnologia*, Federica Trotta, *Politecnico di Milano*

17.15 | 18.00 *Decorative elements*
Chairs: Giuseppe Scarpati, Alessandra Zambrano

Technologies for the Inscriptions of the House of Tiaso
Francesco Colace, *Università di Salerno*

Seeing the invisible: microorganisms on frescoes under the hyperspectral eye
Andrea Campostrini, *Istituto Italiano di Tecnologia*

Sub-terahertz radar imaging of molds and cracks in ancient wall paintings in Pompeii.
Fulvia Gennari, *Istituto Italiano di Tecnologia*

The workshop will be conducted in English, and professional credits will be awarded. The workshop will be available on the youtube channel of the Archaeological Park of Pompeii at the following link <https://www.youtube.com/@PompeiiSites79dc/streams>
To register your participation in presence for the workshop at the Pompeii Auditorium, kindly submit an email to pompei.ricerca@cultura.gov.it