

# INTERNATIONAL WORKSHOP

DIGITAL INTEGRATED  
STRATEGIES  
TO SAFEGUARD HERITAGE  
CONSTRUCTION  
TECHNOLOGIES

**September 30 - October 5, 2024**  
**Poggioreale, Trapani**

## INTERNATIONAL WORKSHOP

### DIGITAL INTEGRATED STRATEGIES TO SAFEGUARD HERITAGE CONSTRUCTION TECHNOLOGIES

# PROGRAM

**September 30 - October 5, 2024**

**Poggioreale, Trapani**

MUNICIPAL COUNCIL HALL

### SEP 30

**10:00 - 13:00**

Welcome Greetings,  
Theoretical Discourse  
and Lectures

**13:00 - 14:00**

Lunch break

**14:00 - 18:00**

Practical Field Activities  
in Ancient Poggioreale  
by E-RIHS.it - MOLAB  
facilities

### OCT 1

**10:00 - 13:00**

Theoretical Discourse  
and Lectures

**13:00 - 14:00**

Lunch break

**15:00 - 18:00**

Practical Field Activities  
in Ancient Poggioreale  
by E-RIHS.it - MOLAB  
facilities

### OCT 2

**10:00 - 13:00**

Theoretical Discourse  
and Lectures

**13:00 - 14:00**

Lunch break

**14:00 - 18:00**

Practical Field Activities  
in Ancient Poggioreale  
by E-RIHS.it - MOLAB  
facilities

### OCT 3

**10:00 - 13:00**

Theoretical Discourse  
and Lectures

**13:00 - 14:00**

Lunch break

**14:00 - 17:00**

Presentation session

**17:00 - 18:00**

Round table &  
Conclusion

### OCT 4

**09:30 - 16:30** 

GIORNATA  
INTERNAZIONALE DI  
STUDI INSEDIAMENTI  
STORICI  
ABBANDONATI

a cura di Caterina  
Carocci e Maria Rosaria  
Vitale

### OCT 5

**10:00 - 13:00**

Study tour of the Belice  
Valley historic villages

## SCIENTIFIC BOARD

**Georgios Artopoulos** | The Cyprus Institute

**Miguel Azenha** | University of Minho

**Imane Bennani** | School of Architecture of Rabat - UIR

**Francesco Cannizzaro** | University of Catania

**Filippo Calcerano** | CNR Institute of Heritage Science

**Michele Calvano** | Sapienza University of Rome

**Giovanni Cangi** | CNR Institute of Heritage Science

**Caterina Carocci** | University of Catania

**Luciano Cessari** | CNR Institute of Heritage Science

**Elena Gigliarelli** | CNR Institute of Heritage Science

**Costanza Miliani** | CNR Institute of Heritage Science

**Massimiliano Moscatelli** | CNR Institute of Environmental Geology and Geoengineering

**Cesare Tocci** | Politecnico di Torino

## ORGANISING SECRETARIAT

**Stefano Cursi** | CNR Institute of Heritage Science

**Elena Verticchio** | CNR Institute of Heritage Science

## INTERNATIONAL WORKSHOP

### DIGITAL INTEGRATED STRATEGIES TO SAFEGUARD HERITAGE CONSTRUCTION TECHNOLOGIES

Monday 30 September, 2024 | h 10:00 - 18:00

MUNICIPAL COUNCIL HALL

#### 10:00 | WELCOME GREETINGS

**Carmelo Palermo** | Mayor of Poggioreale  
**Girolama Fontana** | Superintendent for Cultural and Environmental Heritage of Trapani  
**Costanza Miliani** | CNR Institute of Heritage Science Interim Director and National Coordinator of E-RIHS Italian Node

#### 10:30 | THEORETICAL DISCOURSE AND LECTURES

##### Introduction to the Workshop and DARIAH Archetipo Working Group

**Elena Gigliarelli** | CNR Institute of Heritage Science, DARIAH VCC3 Head ARCHETIPO Chair  
**Georgios Artopoulos** | The Cyprus Institute, DARIAH VCC3 Head, ARCHETIPO co-Chair

##### Urban fabric and building types in Poggioreale: an introductory illustration

**Caterina Carocci** | University of Catania

##### BIM. Current development and challenges

**Miguel Azhena** | University of Minho

##### From architectural data integration to digital twinning

**Georgios Artopoulos** | The Cyprus Institute

##### Unified workflows: Leveraging HBIM for Building Performance Simulation

**Kristis Alexandrou** | The Cyprus Institute

##### Heritage City Information Modeling for the Preservation and Enhancement of Historic Oasis Contexts: A Case Study of the Oasis City of Figuig

**Hamza Ennaki** | UIH LAB, International University of Rabat

#### 13:00 - 14:00 | LUNCH BREAK

#### 14:00 - 18:00 | FIELD ACTIVITIES IN ANCIENT POGGIOREALE BY E-RIHS.it - MOLAB FACILITIES

##### First Group | Survey Planning of Poggioreale - SLAM Survey

**Michele Calvano** | Sapienza University of Rome

**Stefano Cursi** | CNR Institute of Heritage Science

**Letizia Martinelli** | CNR Institute of Heritage Science

##### Second Group | Urban Analysis

**Elena Gigliarelli** | CNR Institute of Heritage Science

**Luciano Cessari** | CNR Institute of Heritage Science

**Caterina Carocci** | University of Catania

**Georgios Artopoulos** | The Cyprus Institute

**Kristis Alexandrou** | The Cyprus Institute

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## INTERNATIONAL WORKSHOP

### DIGITAL INTEGRATED STRATEGIES TO SAFEGUARD HERITAGE CONSTRUCTION TECHNOLOGIES

Tuesday 1 October, 2024 | h 10:00 - 18:00

MUNICIPAL COUNCIL HALL

#### 10:00 - 13:00 | THEORETICAL DISCOURSE AND LECTURES

##### Open for Restoration: Poggioreale as a Site of Knowledge

Caterina Carocci | University of Catania

##### Poggioreale, How Are You? Interpretation of Vulnerabilities and Mitigation Strategies

Francesco Cannizzaro | University of Catania

##### Local construction techniques as value of memory and practical suggestions for intervention

Cesare Tocci | Politecnico di Torino

##### Systematic approach to data acquisition for the preservation of heritage buildings

Luciano Cessari | CNR Institute of Heritage Science

##### Traditional construction techniques, from critical reading to surveying

Giovanni Cangi | CNR Institute of Heritage Science

##### Structural Analysis of Historic Buildings in the Digital Age: Proposing a Novel Open BIM Approach for finite element analysis

Maria Laura Leonardi | University of Minho

#### 13:00 - 14:00 | LUNCH BREAK

#### 14:00 - 15:00 | INSTRUMENTAL SURVEY TECHNIQUES (SFM, SLAM)

Michele Calvano | Sapienza University of Rome

Stefano Cursi | CNR Institute of Heritage Science

Letizia Martinelli | CNR Institute of Heritage Science

#### 15:00 - 18:00 | FIELD ACTIVITIES IN ANCIENT POGGIOREALE BY E-RIHS.it - MOLAB FACILITIES

##### First Group | Survey Planning of Poggioreale - SLAM Survey

Michele Calvano | Sapienza University of Rome

Letizia Martinelli | CNR Institute of Heritage Science

Stefano Cursi | CNR Institute of Heritage Science

##### Second Group | Urban Analysis

Elena Gigliarelli | CNR Institute of Heritage Science

Luciano Cessari | CNR Institute of Heritage Science

Caterina Carocci | University of Catania

Georgios Artopoulos | The Cyprus Institute

Kristis Alexandrou | The Cyprus Institute

##### Third Group | Field analysis of structural failures in relation to building types and construction techniques

Giovanni Cangi | CNR Institute of Heritage Science

Cesare Tocci | Politecnico di Torino

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### DIGITAL INTEGRATED STRATEGIES TO SAFEGUARD HERITAGE CONSTRUCTION TECHNOLOGIES

Wednesday 2 October, 2024 | h 10:00 - 18:00

MUNICIPAL COUNCIL HALL

#### 10:00 - 13:00 | THEORETICAL DISCOURS AND LECTURES

**From data to knowledge preservation in Heritage Science: toward the implementation of the E-RIHS new platform "DIGILAB"**

Alberto Bucciero | CNR Institute of Heritage Science

**Scan-to-BIM process for the representation of constructive systems in historical buildings**

Letizia Martinelli | CNR Institute of Heritage Science

**Semantic web approach for built heritage representation**

Stefano Cursi | CNR Institute of Heritage Science

**Energy and Environmental Analysis for Historical Buildings: Insights from MOLAB by E-RIHS**

Filippo Calcerano | CNR Institute of Heritage Science

**Parametric modelling for the quantitative study of microclimate of historical urban settings**

Elena Verticchio | CNR Institute of Heritage Science

**Creating something new from something old: the HBIM for the safety and conservation of urban settlements**

Margherita Giuffrè, Maria Sole Benigni | CNR Institute of Environmental Geology and Geoengineering

#### 13:00 - 14:00 | LUNCH BREAK

#### 14:00 - 18:00 | FIELD ACTIVITIES IN ANCIENT POGGIOREALE

##### **First Group | Survey Planning of Poggioreale - SLAM Survey**

Michele Calvano | Sapienza University of Rome

Filippo Calcerano | CNR Institute of Heritage Science

##### **Second Group | Urban Analysis**

Elena Gigliarelli | CNR Institute of Heritage Science

Luciano Cessari | CNR Institute of Heritage Science

Caterina Carocci | University of Catania

Georgios Artopoulos | The Cyprus Institute

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##### **Third Group | Field analysis of structural failures in relation to building types and construction techniques**

Giovanni Cangi | CNR Institute of Heritage Science

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### DIGITAL INTEGRATED STRATEGIES TO SAFEGUARD HERITAGE CONSTRUCTION TECHNOLOGIES

Thursday 3 October, 2024 | h 10:00 - 18:00

10:00 - 13:00 | SCAN TO BIM PROCESS: MODEL PROCESSING IN THE CLASSROOM

**Filippo Calcerano** | CNR Institute of Heritage Science  
**Michele Calvano** | Sapienza University of Rome  
**Stefano Cursi** | CNR Institute of Heritage Science  
**Letizia Martinelli** | CNR Institute of Heritage Science  
**Maria Laura Leonardi** | University of Minho

13:00 - 14:00 | LUNCH BREAK

14:00 - 17:00 | SCAN TO BIM PROCESS: MODEL PROCESSING IN THE CLASSROOM

**Filippo Calcerano** | CNR Institute of Heritage Science  
**Michele Calvano** | Sapienza University of Rome  
**Stefano Cursi** | CNR Institute of Heritage Science  
**Letizia Martinelli** | CNR Institute of Heritage Science  
**Maria Laura Leonardi** | University of Minho

17:00 - 18:00 | ROUND TABLE AND CONCLUSION

**PROGRAM**

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## GIORNATA INTERNAZIONALE DI STUDI Insediamenti storici abbandonati

Ricostruzioni, restauri e strategie di mitigazione dei rischi naturali e antropici  
a cura di Caterina Carocci e Maria Rosaria Vitale

Venerdì 4 ottobre 2024 | h 09:30 - 16:30

MUNICIPIO, SALA DEL CONSIGLIO

### 09:20 | SALUTI ISTITUZIONALI

Carmelo Palermo | Sindaco di Poggioreale

Girolama Fontana | Soprintendente per I Beni Culturali e ambientali della Provincia di Trapani

### 10:00 | RISULTATI DELLO STUDIO SU POGGIOREALE

**Perché e come la Protezione Civile promuove la messa in sicurezza di un insediamento abbandonato per gli effetti del terremoto**

Salvatore Cocina | Dipartimento Regionale di Protezione Civile

**Poggioreale come paradigma per il riconoscimento dei valori degli insediamenti abbandonati**

Caterina Carocci | Università di Catania

**Ricostruzione post-sisma degli insediamenti storici. Il terremoto del Belice e il caso di Poggioreale**

Valentina Macca | Università di Catania

**Conservazione degli insediamenti storici abbandonati. Il caso di Poggioreale**

Renata Finocchiaro | Politecnico di Torino

**Prima del terremoto: fonti e studi su Poggioreale per una storia da ricostruire**

Emanuele Gallotta | Università di Catania

### 11:30 | CONFRONTI

**La scala territoriale nel restauro. Il paesaggio del Camino de Santiago a Ruesta**

Sergio Sebastian Franco | Università di Zaragoza, Spagna

**Il recupero del nucleo abitato di Jánovas (Huesca): il potere della memoria**

Pablo de la Cal | Università di Zaragoza, Spagna

**Che fare di Galatàs dopo il terremoto del 2021?**

Nikos Skoutelis | Università Tecnica di Creta, Grecia

### 13:30 - 14:30 | PRANZO

### 15:00 | IN SICILIA

**Il quartiere Granfonte a Leonforte tra abbandono e prospettive di riqualificazione dello spazio urbano**

Chiara Circo e Deborah Sanzaro | Università di Catania

**Il quartiere Matrice e Sant'Agostino a Caltagirone: progetto e opere di rigenerazione urbana**

Bruno Messina e Vito Martelliano | Università di Catania

**La rigenerazione urbana dei centri minori di Sicilia. Strategie di intervento del Piano Territoriale Regionale**

Luca Barbarossa | Università di Catania

Conclusioni di Maria Rosaria Vitale | Università di Catania

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**YOUR NOTES**

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