

# EeTAC

CONSERVAZIONE  
QUALITÀ  
INNOVAZIONE  
DELL'INVOLUCRO

Ph. Paolo Mazzo

# RESTORATION AND ENERGY EFFICIENCY IMPROVEMENT OF VILLA ROSSI

**Enrico Giacopelli**  
Partner of GStudio

April 23, 2026

2:30-3:30 pm - Open Lecture

3:30-6:30 pm - Co-creation Activity  
(for PoC students only)

Room 1B DAD | UniGe  
Teams ID meeting: 375 942 222 296 98  
Passcode: Rs29Pm7Q

## EeTAC SEMINAR CYCLE

+ CO-CREATION ACTIVITIES

Curated by Federica Pompejano  
and Marta Casanova

### PoC - PRINCIPLES OF CONSERVATION

Academic Year 2025-2026

Prof. Federica Pompejano

### MArch in Architectural Composition

Department of Architecture and Design

Polytechnic School

University of Genoa

The lecture explores the energy retrofit of Villa Rossi, a modern heritage building in Ivrea (TO), Italy, aiming to improve energy performance while preserving its architectural and cultural value. Interventions focused on enhancing the building envelope's thermal insulation and thermal inertia. Strategies included improved low-E glazing, insulation with conventional and super-insulating materials, mitigation of thermal bridges, a ventilated cool roof system, and increased thermal inertia through macro-encapsulated Phase Change Materials (PCMs). These technologies balance heritage preservation with current Italian energy performance requirements. The study includes infrared thermography and monitoring of envelope U-values before and after intervention. Results show reduced energy demand and improved indoor thermal comfort.



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EeTAC

Energy Efficiency and Conservation of Contemporary Architecture

The project is supported by *Sustainable Architectures for Contemporary Restoration*, promoted by the Directorate-General for Contemporary Creativity of the Italian Ministry of Culture.

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## SEMINAR #3