

Challenges in the preservation of the architectural heritage of the 20th century: themes and experiences

Online mode
22.02.21 - 01.03.21

Excellence course of the Doctoral School of Politecnico di Torino

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COURSE AIM The course aims to present and discuss experiences and current challenges related to the conservation of 20th-century architectural heritage. This legacy is constantly threatened not only by natural hazards but also by abandonment and poor maintenance, and needs to be brought back to life while respecting the spirit of its original characters and maintaining an adequate level of structural and seismic performance. Moreover, the materials and construction techniques employed present serious durability issues. In fact, concrete was extensively used during the 20th-century, together with other experimental or new construction materials that, in most cases, did not age well. The definition of protocols about condition assessment, repair and conservation of 20th-century structures and buildings is in progress and periodically updated, also based on the first-hand experience by researchers, practitioners, and institutions. However, many challenges and issues are still open. The comparison between different views and interdisciplinary collaborations will enrich the framework of possible research and communication scenarios.

LECTURES

Susan Macdonald
The Getty Conservation Institute,
Los Angeles, USA

Preservation of 20th century architecture and the experience in developing and building proper managements plans and policies around the World. The Conserving Modern Architecture Initiative (CMAI). Concrete: case studies in conservation practice.

Paulo Lourenço, Elisiário Miranda, & Javier Ortega
University of Minho, Braga, Portugal

Conservation of Heritage Structures: Concepts, challenges and applications to concrete. Modern Movement in Mozambique: survey, condition assessment and conservation of the Beira Central Station.

Fabio Grementieri
Universidad Torcuato Di Tella, Buenos Aires

The culture of reinforced concrete in South America, history and appraisal. Conservation challenges of Brutalism Heritage in Argentina. The Escuela Manuel Belgrano Conservation Project.

Francesco Romeo
Università degli Studi di Roma La Sapienza
Claudio Chesi
Politecnico di Milano
Mario A. Chiorino
Politecnico di Torino

Conservation, condition assessment and reuse of iconic 20th century concrete structures. Italian experiences: The Stadio Flaminio in Rome by Pier Luigi and Antonio Nervi: an interdisciplinary conservation plan; Giancarlo De Carlo "Collegi" in Urbino: seismic assessment and structural solutions.

Antoine Wilmering
The Getty Foundation,
Los Angeles, USA

Preservation of 20th century architecture and the experience in developing and building proper managements plans and policies around the World. The Keeping It Modern (KIM) program.

Rosario Ceravolo, Erica Lenticchia, Giulia Sammartano, Antonia Spanò, & Francesco Tondolo
Politecnico di Torino
Cristiana Chiorino
Pier Luigi Nervi Project Association

Conservation, condition assessment and reuse of iconic 20th century concrete structures: the case of Pier Luigi Nervi's halls in Torino Esposizioni. Preservation issues, documentation and survey, structural and seismic assessment, experimental tests and structural health monitoring, durability of ferrocement.

Paolo Faccio
Università luav di Venezia
Antonio Nanni
University of Miami (USA)

The course will be held on line. Interested participants that are not enrolled in the Ph.D. program of Politecnico di Torino should send an email to receive the links to the lectures

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Scientific secretary: Erica Lenticchia, Politecnico di Torino



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