SEMINAR CS4

Monitoring, conservation and recovery of structures and infrastructures

16 June 2025
9.30 - 13.00
Castigliano Room – bld. 5
POLITECNICO DI MILANO
Piazza Leonardo da Vinci, 32
Milano

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GUEST SPEAKERS:

Antonella Frigerio
Ricerca sul Sistema Energetico (RSE S.p.A.)

Carlo Blasi
University of Parma

MODERATED BY :

Massimiliano Cremonesi
Chiara Corbari
Paola Gattinoni

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Monitoring, conservation and recovery of structures and infrastructures

9.30 - 9.40 **Introduction from Attilio Frangi**
Director, Department of Civil and Environmental Engineering, Politecnico di Milano

9.40 - 10.20 **Antonella Frigerio**
Deputy Director of the Department of Sustainable Development and Energy Sources,
Ricerca sul Sistema Energetico - RSE S.p.A.
Surveillance of hydroelectric infrastructure

10.30 - 10.40 **Manuel Bertulessi**
Smart Monitoring of Water Infrastructures: a Novel Approach Based on Fiber Optic Sensors
and Data Fusion

10.40 - 10.50 **Danila Aita**
Limit analysis of masonry arches and domes: interdisciplinary challenges involving
material's uncertainties, accurate surveys and conservation issues

10.50 - 11.00 **Jiayue Lin**
Advancing Seismic Risk Assessment in Large Urban Areas by Means of Regional-Scale 3D
Physics-Based Ground Motion Simulations

11.00 - 11.30 **COFFEE BREAK**

11.30 - 11.40 **Giulio Zani**
Structural assessment and monitoring-based modelling of a mid-20th-century RC bridge
under anthropogenic loads

11.40 - 11.50 **Lorenzo Rossi**
Geomatic Methods for Inspection and Monitoring of Infrastructures

11.50 - 12.00 **Marco Rampini**
An Integrated Strengthening and Monitoring Approach for RC Structures: Use of FRCM
Composites and DFOS Technology

12.00 - 12.10 **Mattia Anghileri**
Bayesian Updating of the Residual Structural Performance of PC Bridge Deck Beams Based
on Experimental Tests

12.10 - 12.20 **Davide Chiarelli**
Marcita Meadows: Reviving a Historic Irrigation System for Sustainable Water Management

12.20 - 13.00 **Carlo Blasi**
Full Professor of Restoration, University of Parma
Monitoring of historic buildings: Santa Maria del Fiore and others (in italian)

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