



CONSIGLIO NAZIONALE
DEGLI INGEGNERI



In collaboration with:

CONCRETO
ACADEMY



Co-funded by
the European Union

ON LINE CONFERENCE IN ENGLISH | MONDAY, JUNE 16th 16.00 - 18.00

Advanced Practices in Concrete Rehabilitation & Restoration

The iconic case of Frank Lloyd Wright's Fallingwater

SHORT ABSTRACT

This lecture presents the structural assessment and rehabilitation strategy developed for *Fallingwater*, Frank Lloyd Wright's iconic example of early reinforced concrete in residential architecture. In keeping with the experimental nature of Wright's original design, the intervention employed equally unconventional and innovative methods tailored to the structure's unique challenges.

The project began with a comprehensive review of the original construction drawings, followed by an in-depth diagnostic investigation using a range of non-destructive techniques. This multi-faceted approach informed a targeted strengthening strategy that combined steel, stainless steel, and carbon fiber reinforcement. A key element of the intervention was the application of high-strength steel post-tensioning, designed to restore structural integrity while preserving the architectural character and material authenticity of this modern masterpiece.

THE ONLINE CONFERENCE

This event marks the launch of a series of online lectures organized in collaboration with CONCRETO Academy, an Erasmus+ training initiative promoted by the Pier Luigi Nervi Foundation. Professionals operating in technical areas interested in the topics of restoration and rehabilitation of concrete structures are encouraged to take part in the online conference. Engineers regularly registered in the Italian register of **Engineers** will be awarded **2 cfp**.

PROGRAMME

Topics Highlighted in the lecture:

- Diagnostic and Assessment Techniques for reinforced concrete structures
- Retrofitting Techniques including strengthening, Post-Tensioning and Concrete Repair

INTRODUCTION

Arch. Irene Matteini Scientific Director CONCRETO Academy

Eng. Luca Scappini Consiglio Nazionale degli Ingegneri, Italia

SPEAKER

Eng. John Matteo Matteo Farran Structural Engineers, Alexandria, Virginia

On line registration/Link iscrizioni: <https://www.formazionecni.it/eventi/25c84342>

The online conference is organized pursuant to art. 4.5.5. of the TU Guidelines for updating the professional competence of the CNI, with accumulation of vocational training certificates valid for a maximum of 9 vocational training courses/year. Engineers regularly registered in the Italian professional register who participate for the entire duration of the event will be awarded **2 CFP**.

Il Convegno on line è stato organizzato ai sensi dell'art 4.5.5. del TU Linee di indirizzo per l'aggiornamento della competenza professionale del CNI, con accumulo di cfp validi per un massimo di 9 cfp/anno. Agli ingegneri regolarmente iscritti all'Albo professionale che parteciperanno all'intera durata dell'evento verranno riconosciuti 2 cfp.

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