



Collegio dei Tecnici della Industrializzazione Edilizia

Organizes

CACRCS DAYS 2020 Capacity Assessment of Corroded Reinforced Concrete Structures

1-4 December 2020

Venue: ON LINE

with the support of



Fédération International du Béton



fib Italy Young Member



Associazione Italiana Calcestruzzo
Armato Precompresso

TOPIC

The capacity assessment of corroding reinforced concrete and prestressed structures has become a most relevant engineering task with significant social and economic impact. The need to develop codes for use in the practice spurs the research community to establish and share methods to determine material deterioration and mechanical properties, member resistance and structural capacity.



ORGANIZING COMMITTEE

Coordinator: **Beatrice Belletti, Dario Coronelli**

Anna Magri, CTE

David Fernández-Ordóñez, *Secretary General*

Luc Taerwe, *Editor-in-Chief Structural Concrete Journal*

Marta del Zoppo, Francesca Vecchi, Isabella Giorgia

Colombo, *fib Italia Young Member*

SCIENTIFIC COMMITTEE

Carmen Andrade, Fabio Biondini, Fabio Bolzoni, Robby Caspeele, Hugo Corres, Edoardo Cosenza, Marco di Prisco, Pawan Gupta, Mehdi Kashani, Karin Lundgren, Stuart Matthews, Camillo Nuti, Giovanni Plizzari, Zila Rinaldi, Jesús Rodríguez, Francesco Tondolo, Joost Walraven

CALL FOR ABSTRACT

The CACRCS DAY welcome all the contributions related to the behaviour of reinforced concrete structures damaged by corrosion both with numerical and experimental approaches.

PAPER SUBMISSION

Authors willing to present their work at the CACRCS DAYS 2020 are kindly invited to submit an abstract in accordance with the sessions of the workshop. The abstract should not exceed 750 characters. Accepted papers will be included in the Proceedings of the Workshop that will be send to Scopus-Database. The template for abstract and paper is available on the CTE website (www.cte-it.org).

AWARDS

The most excellent paper presented by a fib young member will be awarded and the most excellent paper presented in the workshop will be awarded.

IMPORTANT DATES

abstract submission	18.08.2020
abstract acceptance notification	30.08.2020
full paper submission	12.10.2020
full paper acceptance notification	31.10.2020
final paper submission	15.11.2020
author's registration	15.11.2020
presentation submission	22.11.2020

REGISTRATION FEES

are VAT exempted include participation to the virtual workshop, proceedings in electronic format. The membership to CTE or fib or aicap is required to participate.

Cte fib aicap Member

Registration fee **€50,00**

If you are not a member CTE or fib or aicap, please contact the secretary CTE info@cte-it.org

The registration form will be available on CTE website.

SPECIAL SESSIONS

Special sessions are organised during the workshop. Authors are kindly invited to select the session where they will present their papers.

At the beginning of each session, chairpersons prepare two education presentations: the first one illustrates the fundamental, while the second one the research challenges of the topic treated in the session. Therefore, the virtual workshop offers a didactic material for engineers, practitioners and a forum for scientists, concrete technologists, researchers, academics to improve knowledge about corrosion of reinforced concrete structures.

Introductory Key note on Model Code 2020

Key-note Speakers: **Stuart Matthews**

A1) *Corrosion Induced Damage in Materials*

Key-note Speakers: **Carmen Andrade, Fabio Bolzoni**

A2) *In Situ Inspections in the Case of Corrosion*

Key-note Speakers: **Giovanni Plizzari, Pawan Gupta**

A3) *Mechanical Properties of Concrete and Steel, Bond - Slip Relation in the Case of Corrosion*

Key-note Speakers: **Karin Lundgren, Francesco Tondolo**

B1) *Experimental Tests on Corroded RC and PC Structures*

Key-note Speakers: **Zila Rinaldi, Jesús Rodríguez**

B2) *Implementation of the Effect of Reinforcement Corrosion in Models for the Determination of Aspects of the Bearing Capacity*

Key-note Speakers: **Marco di Prisco, Joost Walraven**

C1) *Case Study of Existing Structures and Infrastructures*

Key-note Speakers: **Hugo Corres, Edoardo Cosenza**

C2) *Performance of Corroded Reinforcement Concrete Structures in Seismic Situations*

Key-note Speakers: **Mehdi Kashani, Camillo Nuti**

C3) *Robustness and Resilience Issues of Corroded RC and PC Structures. Predictive Estimation of the Residual Life and Effects of Repairing Actions*

Key-note Speakers: **Fabio Biondini, Robby Caspeele**

CONTACTS

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For any information about the event, please visit the internet website

www.cte-it.org