

**ACI International Forum  
ACI Virtual Convention – Fall 2020  
October 25<sup>th</sup>, 2020**

# **ACI Italy Chapter activities**

**Luigi Coppola**

**President of ACI Italy Chapter**

**Professor of "Construction Materials" and "Materials for Maintenance and Repair of Existing Concrete and Masonry Structures"**

Dept. of Engineering and Applied Sciences  
University of Bergamo - Italy



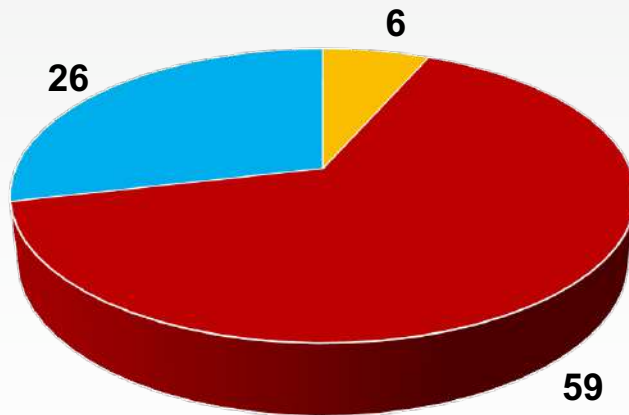
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# INTRODUCTION

The ACI Italy Chapter was founded in 2003 by **Prof. Antonio Nanni**.  
The first President, now Honorary President of the Chapter, was  
**Prof. Mario Alberto Chiorino**.

The Board of Directors includes seventeen eminent personalities  
from academic, industrial and professional institutions.

91 members



Sustaining members:  
Buzzi Unicem, Calcestruzzi SpA,  
General Admixture, Kerakoll,  
Mapei, MBCC-Group

- Sustaining members
- Individual members
- Young members



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# Officers 2020

**Luigi Coppola**, President, University of Bergamo

**Liberato Ferrara**, Vice President, Polytechnic of Milan

**Mario Alberto Chiorino**, Honorary President, Polytechnic of Turin

**Roberto Realfonzo**, Past President, University of Salerno

**Maria Antonietta Aiello**, University of Salento

**Marco Bressan**, General Admixtures

**Marco Francini**, Buzzi Unicem

**Pietro Gambarova**, Polytechnic of Milan

**Paolo Casadei**, Kerakoll SpA

**Mauro Eugenio Giuliani**, Redesco

**Ivana Torresan**, MBCC-Group Italy

**Gennaro Magliulo**, University of Naples

**Morandini Giulio**, Mapei SpA

**Paolo Riva**, University of Bergamo

**Emidio Nigro**, University of Naples

**Francesco Santonicola**, Italcementi SpA

**Massimiliano Pescosolido**, General Secretary ATECAP





ITALY  
**aci**  
CHAPTER

In collaborazione con  
**Federbeton**  
CONFINDUSTRIA

## IL CALCESTRUZZO? LA SOLUZIONE PER

**GIOVEDÌ 14 MARZO 2019 ORE 14**  
SALA SCORPIO FIERA RHO MILANO

Il calcestruzzo è la soluzione ideale per qualsiasi tipo di opera, grande o piccola che sia, per le sue potenzialità strutturali, estetiche, architettoniche e di sostenibilità, che ne fanno il materiale da costruzioni alla base della maggior parte delle opere costruite.

Se ben progettate le strutture in calcestruzzo hanno limitate esigenze di manutenzione, insieme ad altre proprietà come la capacità di resistere al fuoco, far risparmiare energia e, in ottica di economia circolare, accogliere materiali riciclati.

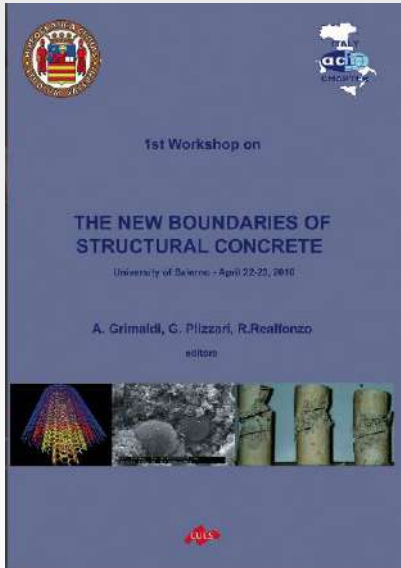
## Main Topics

“Concrete? The ideal solution” for:

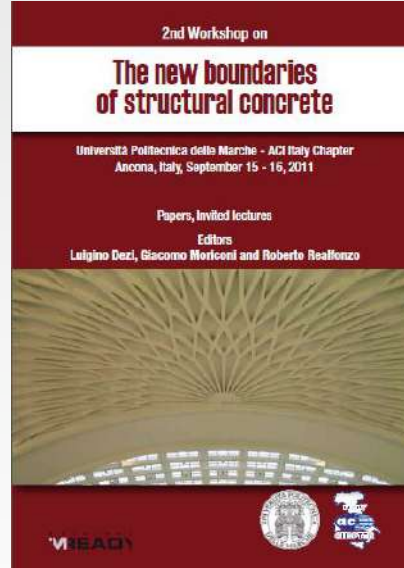
- Tall buildings
- Flooring & Tunneling
- Water purification plants
- Anti-seismic structures
- Infrastructures
- 3D Printing
- Concrete design

# CHAPTER ACTIVITIES – Workshop NBSC

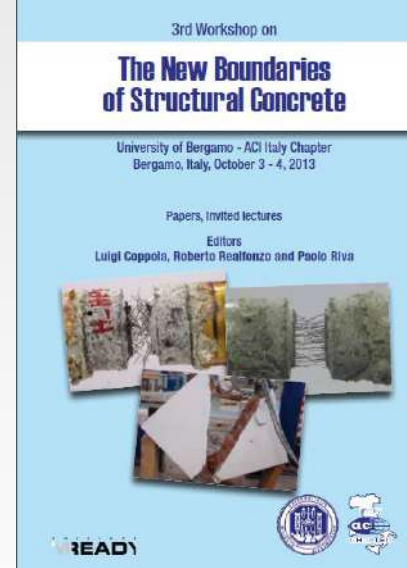
## ACI IC Workshop New Boundaries of Structural Concrete



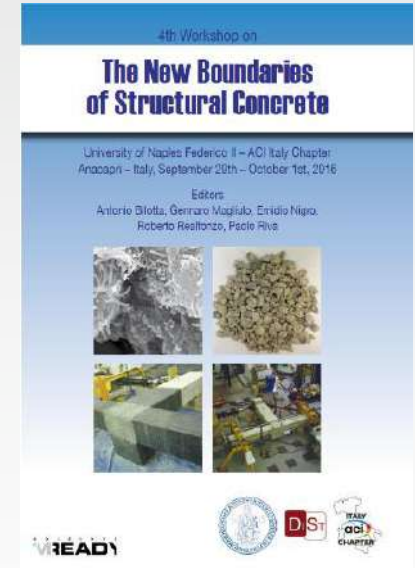
**First Edition  
Salerno,  
April 2010**



**Second Edition  
Ancona,  
September 2011**



**Third Edition  
Bergamo,  
October 2013**



**Fourth Edition  
Capri,  
September  
October 2016**





# CHAPTER ACTIVITIES – Workshop NBSC 2019



**POLITECNICO**  
MILANO 1863

## **5th edition of the Workshop New Boundaries of Structural Concrete**

organized by  
**ACI Italy Chapter**  
and

**Department of Civil and Environmental  
Engineering of Milan Polytechnic**  
**19 - 20 September 2019, Milan**

### **Organizing Committee**

**L. Coppola (ACI President)**  
**L. Ferrara (ACI IC Vice President )**  
**R. Realfonzo (ACI IC past President)**  
**P. Riva (ACI IC)**  
**P. Gambarova (Politecnico of Milano –  
ACI IC)**

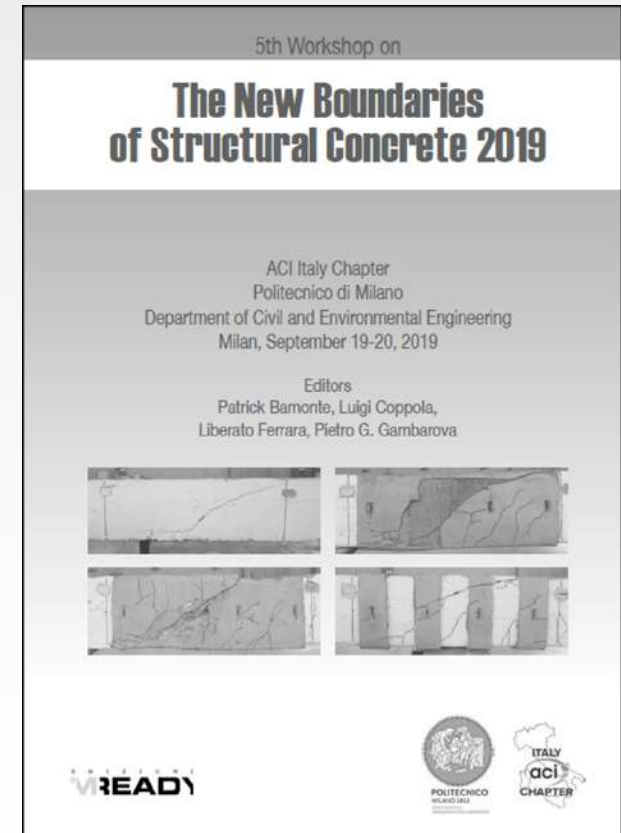


# CHAPTER ACTIVITIES – Workshop NBSC 2019

The Scientific Committee has received, reviewed and accepted **50 papers** from National and International authors. The **attendants were more than 100.**

## Main topics

- Innovative cementitious materials
- Corrosion and self-healing in RC structures
- Concrete and reinforced-concrete under extreme environmental conditions
- Recycling of concrete
- Short and long term behavior of RC structures
- Bond and connections in RC, PC and mixed structures
- Strengthening and repair of concrete structures
- Performance and life-cycle of new concrete structures



The **sixth edition** of the workshop **New Boundaries of Structural Concrete** will be organized by ACI IC in collaboration with the University of Salento





# **CHAPTER ACTIVITIES – Luca Bertolini Memorial Award 2019**

The award ceremony took place at the Milan Polytechnic, on the occasion of the fifth workshop "The New Boundaries Of Structural Concrete".



The award, named after the famous expert in concrete and corrosion who passed away in February 2017, was promoted by the American Concrete Institute Italy Chapter (ACI-IC) and by the Cementitious Materials and Durability Group (mCD) of Politecnico di Milano, to commemorate the scholar and his passion in research in the field of building materials and their durability.

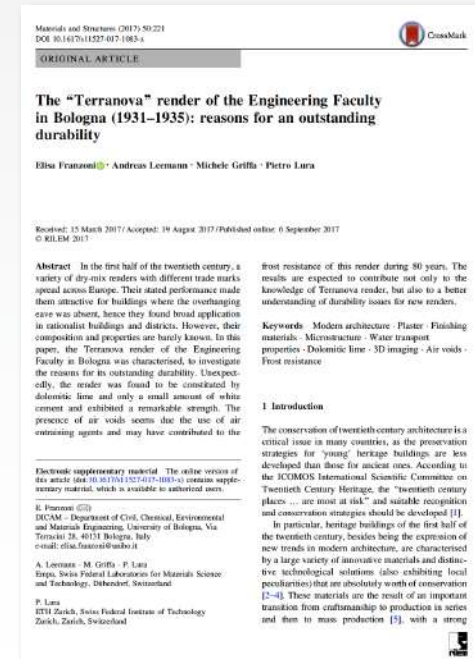


# CHAPTER ACTIVITIES – Luca Bertolini Memorial Award 2019

**Elisa Franzoni**, co-author of the scientific publication

***"The "Terranova" render of the Engineering Faculty in Bologna (1931-1935): reasons for an outstanding durability"***  
**Materials and Structure (2017),**

**won the first edition of the Luca Bertolini Memorial Award.**



# CHAPTER ACTIVITIES – Excellence in Concrete Award

ACI Italy Chapter served as **Supporting Chapter** for the application of Generali Tower (City Life, Milan 2014 - 2017) designed by Zaha Hadid at **Excellence in Concrete Construction Award 2019 – High rise buildings**

## Construction Team Members

Owner  
**Generali**

Architectural Firm  
**Zaha Hadid**

Engineering Firm  
**Mauro Eugenio Giuliani – Redesco**

General Contractor  
**C.M.B Carpi (MO)**



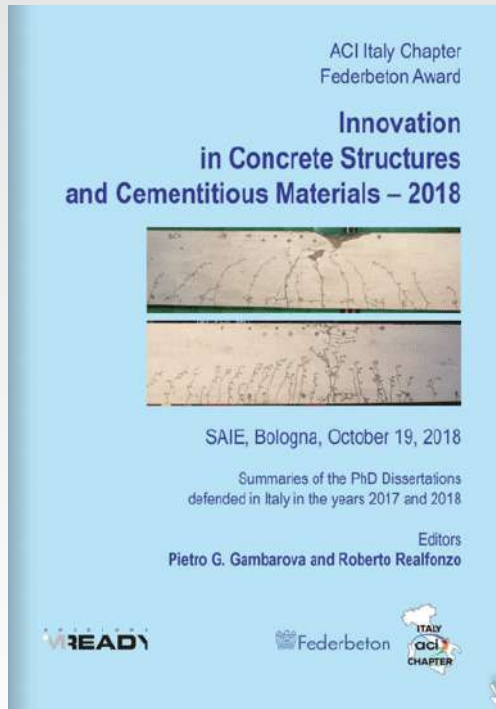
# CHAPTER ACTIVITIES – Excellence in Concrete Award

Generali Tower – Milano, Italy, has won **first place in the High-Rise Buildings** (over 15 stories) Category of the 2019 Excellence in Concrete Construction Awards Program





# CHAPTER ACTIVITIES - PhD Student Award 2018



## Third Edition

### Innovation in Concrete Structures and Cementitious Materials

SAIE Bologna - Italy, October 19th 2018

The Competition was organized by  
**ACI Italy Chapter and Federbeton**

Editors:

**Pietro G. Gambarova, ACI IC**  
**Roberto Realfonzo, ACI IC Past President**

The **Fourth Edition will be held on March 17-20 2021**  
at MADE Expo 2021, Milan.

The selection will start from 1<sup>st</sup> November 2020



# CHAPTER ACTIVITIES - PhD Student Award 2018



The Committee has received **22 long summaries of PhD dissertations** defended in the period **2016-2018**, coming from 16 Italian Universities.

The Scientific Committee conferred **three awards**, with a prize of 1000 euro for each winner.



# CHAPTER ACTIVITIES - SAIE Bologna 2020



 **ACI Italy Chapter** 

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**PRESIDENT**  
Prof. Luigi Coppola  
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**SECRETARY**  
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DIST Dipartimento delle Strutture per l'Ingegneria e l'Architettura -  
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Napoli, 30 settembre 2020

Mercoledì 14 ottobre dalle ore 10.00 alle 12.30

Innovazione nella Tecnologia del Calcestruzzo

Realizzato in collaborazione con ACI IC – American Concrete Institute - Italy Chapter

**Moderatori**  
Luigi Coppola – Presidente ACI - IC  
Liberato Ferrara – Vice Presidente ACI - IC

## Seminar on “Concrete Innovations” Main Topics:

- The construction of San Giorgio bridge in Genoa
- Concrete for tall buildings: the PWC tower in Milan
- The self-healing UHPFRC
- Alternative binders to Portland cement
- Concretes for slabs on ground
- The strengthening of concrete structures



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# CHAPTER ACTIVITIES - SAIE Bologna 2020



Discussion on  
“Sustainability and  
digitalization of concrete  
industry”

Organized by ATECAP,  
Italian organization of  
premixed concrete  
producers

ACI IC president Luigi  
Coppola will be present  
as invited speaker



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# CHAPTER ACTIVITIES – GDS Pedefferri

**Second edition**

**Workshop «Pietro Pedefferri»  
on durability of reinforced concrete  
structures.**

**Milan, November 27, 2020.**

**ACI IC is a **sponsor** of the event.**

**ACI IC vice-president Liberato Ferrara** will present a focus on the ReSHEALience Project and **young ACI IC member Denny Coffetti** will discuss the topic of the durability of concretes manufactured with alternative binders to Portland cement in natural and industrial environments



The poster for the "Giornata di studio 'Pietro Pedefferri'" event. It features the logos of Politecnico Milano 1863, Dipartimento di Chimica, Materiali e Ingegneria Chimica Giulio Natta, PoliLaPP, and mCD. The date is 27 novembre 2020. The title is "Giornata di studio 'Pietro Pedefferri' Seconda edizione" and the subtitle is "La durabilità delle opere in calcestruzzo armato". The central image shows a colorful, abstract pattern of overlapping brushstrokes in shades of blue, yellow, and pink. Below the image, it says "Con il patrocinio di:" followed by logos for APCE, AIMAT, ASSOCIAZIONE ITALIANA DI METALLURGIA, CENTRO INOX, and NACE MILANO ITALIA SECTION.

**POLITECNICO  
MILANO 1863**  
DIPARTIMENTO DI CHIMICA,  
MATERIALI E INGEGNERIA CHIMICA  
GIULIO NATTA

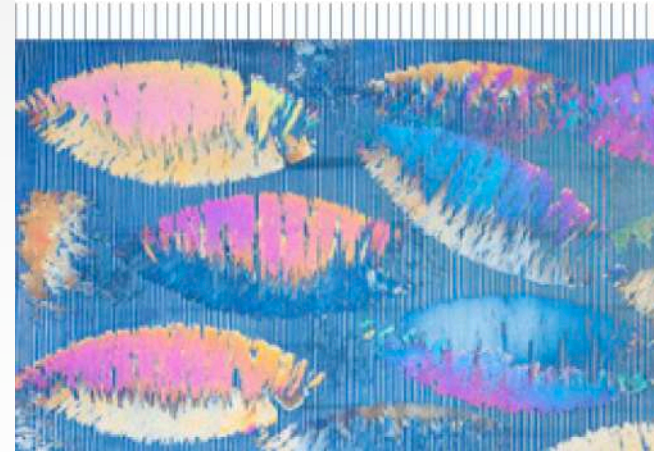
**PoliLaPP**

**mCD**  
concrete  
durability

27 novembre 2020

*Giornata di studio "Pietro Pedefferri"*  
Seconda edizione

*La durabilità delle opere in calcestruzzo armato*



Con il patrocinio di:

**APCE**  
ASSOCIAZIONE PER LA PROTEZIONE  
DALLE CORROSIONI ELETTOLITICHE

**AIMAT**  
ASSOCIAZIONE ITALIANA INGEGNERIA DEI MATERIALI

**ASSOCIAZIONE  
ITALIANA  
DI METALLURGIA**

**CENTRO INOX**

**ITALY  
aci  
CHAPTER**

**ATE**  
ASSOCIAZIONE TECNOLOGI PER L'EDILIZIA

**NACE MILANO ITALIA  
INTERNATIONAL SECTION**

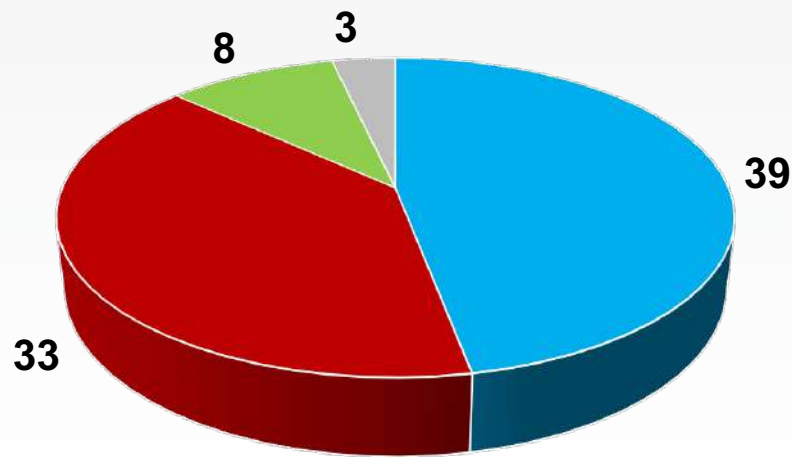
# CHAPTER ACTIVITIES – International Conference

Thirteenth Edition

**Superplasticizers and other Chemical Admixtures in Concrete  
(SOCAC 2021)**

**Milan – Italy, 1-3 November 2021**

The Workshop will be organized by **ACI Italy Chapter** together with the Department of Engineering and Applied Science of the **University of Bergamo**



83 abstracts submitted



UNIVERSITÀ  
DEGLI STUDI  
DI BERGAMO

■ Europe ■ Asia ■ North America ■ Africa



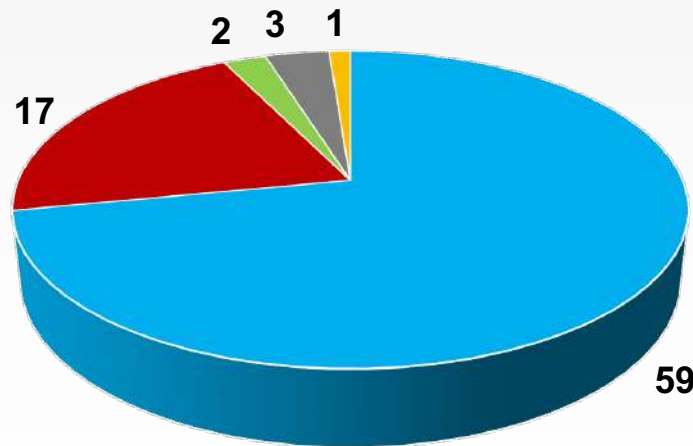
# CHAPTER ACTIVITIES – International Conference

Fifteenth Edition

**Recent Advances in Concrete Technology and Sustainability  
Issues (RACTSI 2021)**

**Milan – Italy, 3 - 5 November 2021**

The Workshop will be organized by **ACI Italy Chapter** together with the Department of Engineering and Applied Science of the **University of Bergamo**



82 abstracts submitted



UNIVERSITÀ  
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DI BERGAMO

■ Europe ■ Asia ■ North America ■ Africa ■ Australia



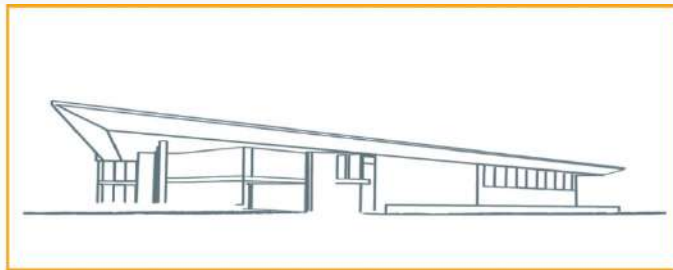
# CHAPTER ACTIVITIES – Certification Programs

## ACI Italy Chapter as **Sponsoring Group 2020**

### Sponsoring Group Activities

**Concrete Field Testing Technician - Grade I Certification:** is an individual who has demonstrated the knowledge and ability to properly perform and record the results of seven basic field tests on freshly mixed concrete.

The Certification Programs include **online training courses**, **laboratory classes** and **final exams**.



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# CHAPTER ACTIVITIES – Workshop DSCS 2022



Bologna, 2015



Moscow, 2018

The 3rd International Workshop on **Durability and Sustainability of Concrete Structures** will be held in **2022**.

The conference can be potentially organized in **Dubai** by American University in Dubai, American University of Sharjah, UAE-ACI local chapter and ACI Italy chapter.



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# THANK YOU

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