

ACI International Forum
ACI Fall 2016 Convention - Philadelphia
October 23rd, 2016

ACI Italy Chapter activities

Paolo Riva

Vice President of ACI Italy Chapter

Full Professor of Seismic Design
Department of Design and Technologies
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 **sixteen members** from academic, industrial and professional institutions, from all over the Country.

The Chapter has over **sixty associates** and, among them, **four sustaining members** representing industrial institutions (BASF Italia, Calcestruzzi (Italcementi Group), General Admixtures and Kerakoll). Around 1/4 of the associates are **student members** (PhD and young researchers)



INTRODUCTION

Officers 2013-2016

Roberto Realfonzo, President, Univ. of Salerno

Paolo Riva, Vice President, University of Bergamo

Mario Alberto Chiorino, Honorary President, Polytechnic Univ. of Turin

Michele Valente, Past President, General Admixtures

Paolo Casadei, Product Manager Kerakoll

Luigi Coppola, University of Bergamo

Ciro Faella, University of Salerno

Liberato Ferrara, Polytechnic Univ. of Milan

Pietro Gambarova, Polytechnic Univ. of Milan

Antonio Grimaldi, University of Rome

Ivana Torresan, Manager BASF Italia

Gennaro Magliulo, University of Naples

Giuseppe Marchese, Manager Calcestruzzi (italcementi Group)

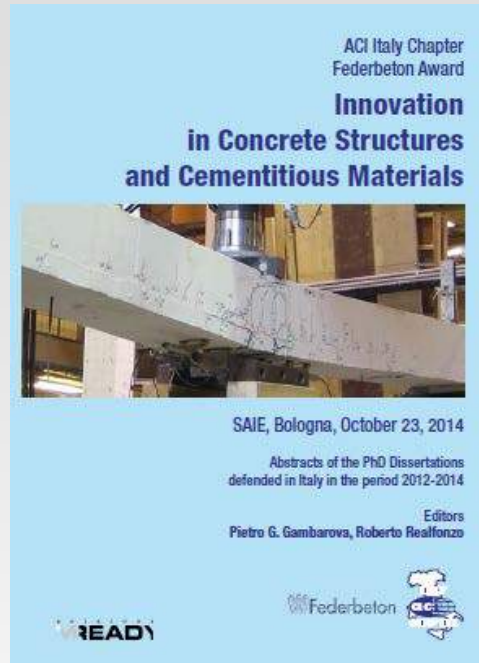
Giacomo Moriconi, University of Marche

Emidio Nigro, University of Naples

Giovanni Plizzari, University of Brescia



CHAPTER ACTIVITIES - PhD Student Award 2014



First Edition

Innovation in Concrete Structures and Cementitious Materials

SAIE Bologna - Italy, October 23rd 2014

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

Editors: **Pietro G. Gambarova**, ACI IC Director, and **Roberto Realfonzo**, ACI IC President

Scientific Committee Members:

Pietro G. Gambarova (*coordinator, ACI-Italy Chapter*)

Liberato Ferrara

Ezio Giuriani

Franco Mola



CHAPTER ACTIVITIES - PhD Student Award 2014

The Committee has received **27 long summaries** of PhD dissertations defended in the **period 2012-2014**, coming from 16 Italian Universities

The PhD dissertations focused on **structural concrete and R/C - P/C structures**. The long summaries were collected in a volume and organized in three main section:

Session A: Cementitious Materials and Reinforcement

A.1. Experimental tests on the structural cementitious mixtures

A.2. Numerical models of concrete

Session B: RC and prestressed RC Structures

B.1. Static actions

B.2. Dynamic, seismic and impulsive actions

Session C: Historical Architecture and Reinforced Concrete

C.1. Tall buildings and seismic actions

C.2. Rationalism and seismic actions



CHAPTER ACTIVITIES - PhD Student Award 2014

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

1. Antonio Caggiano

“Meso-Mechanical Analysis of Steel Fiber-Reinforced Cementitious Composites”

2. Antonella D'Alessandro

“The Use of Nanotechnologies for the Production of Strain-Sensitive Cementitious Materials”

3. Francesco Lo Monte

“Reinforced Concrete in Fire: from Materials Behaviour to Spalling sensitivity and Structural Modelling”

The Scientific Committee conferred also **5 special mentions to PhDs:**

Dario De Domenico, Manuel Quagliaroli, Michele Palermo, Chiara Rossino e Giuseppe Sciumè.



CHAPTER ACTIVITIES - PhD Student Award 2014



CHAPTER ACTIVITIES - PhD Student Award 2016

Second Edition

Innovation in Concrete Structures and Cementitious Materials

SAIE Bologna - Italy, October 19st 2016

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

Editors: **Pietro G. Gambarova**, ACI IC Director, and **Roberto Realfonzo**, ACI IC President

Scientific Committee Members:

Prof. Luca Bertolini - Politecnico di Milano

Prof. Luigi Coppola - Università di Bergamo - ACI Italy Chapter

Prof. Pietro Gambarova - Politecnico di Milano - ACI Italy Chapter

Prof.ssa Livia La Mendola - Università di Palermo

Prof. Annibale Luigi Materazzi - Università di Perugia

Eng. Luca Turri - Federbeton



CHAPTER ACTIVITIES - PhD Student Award 2016

The Committee has received **29 long summaries** of PhD dissertations defended in the **period 2014-2016**, coming from 13 Italian Universities

The PhD dissertations focused on **structural concrete and R/C - P/C structures**. The long summaries will be collected in a volume and organized in three main section:

Session A: Cementitious Materials and Reinforcement

A.1. Experimental tests on the structural cementitious mixtures

A.2. Numerical models of concrete

Session B: RC and prestressed RC Structures

B.1. Static actions

B.2. Dynamic, seismic and impulsive actions

Session C: Durability, sustainability, safety and retrofitting for materials and structures

C.1. Durability and sustainability of concrete materials

C.2. Safety and retrofitting



CHAPTER ACTIVITIES - PhD Student Award 2016

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

1. Isabella Colombo

“Multilayer precast façade panels: structural optimization for energy retrofitting”

2. Irene Finozzi

“structural response of corrosion-damaged RC members: modeling and testing”

3. Forood Torabian

“Nanoparticles as a means to improve the durability of cement composites”

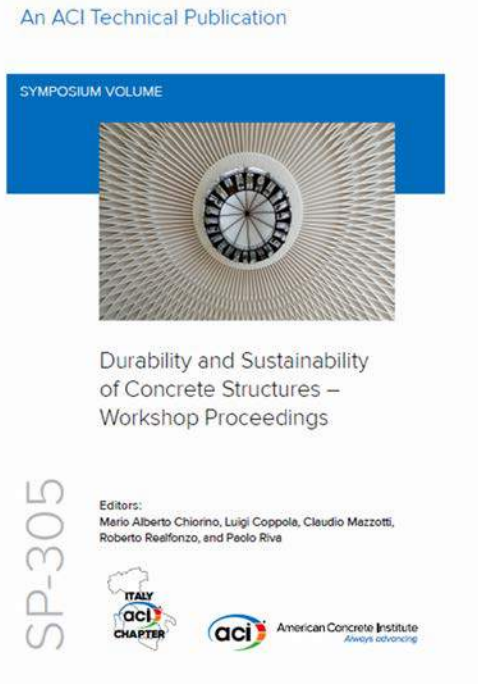
The Scientific Committee conferred also **7 special mentions to PhDs:**

Matteo Breveglieri, Thomaz Buttignol, Bruno Alberto Dal Lago, Iolanda Del Prete, Jacopo Donnini, Fabio Macobatti, Andrea Tinnini.



CHAPTER ACTIVITIES – International Workshop DSCS 2015

First Edition of the International Workshop on Durability and Sustainability of Concrete Structures (DSCS 2015), Bologna - Italy, 1-3 October 2015



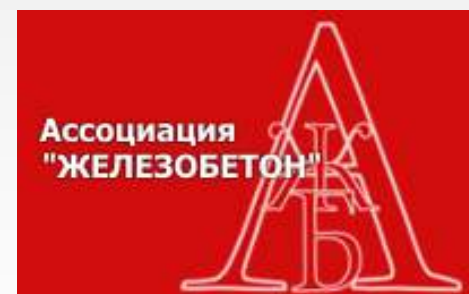
The Workshop was organized by **ACI Italy Chapter** together with the Department of Civil, Chemical, Environmental, and Material Engineering (DICAM) of the **University of Bologna**, and co-sponsored by **ACI Committee 201**

The Workshop Proceedings were collected in an **ACI Special Publication (SP – 305)**

CHAPTER ACTIVITIES – International Workshop DSCS 2018

Second Edition of the International Workshop on
Durability and Sustainability of Concrete Structures
(DSCS 2018), Moscow - Russia

ACI Member and member of ACI TC 236 and 241, RILEM Fellow Member and Head of Russian delegation in *fib*, **Prof. Vyatcheslav Falikman**, a member of the Scientific Committee of the Workshop representing the Russian National Scientific Research Center “Construction” and the Structural Concrete Association, provided **an invitation for a second edition of the Workshop to be held in Moscow in 2018**, with possible co-sponsorship also, **besides ACI, of RILEM and *fib*.**



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CHAPTER ACTIVITIES – International Workshop DSCS 2018

Venue: Russian Academy of Sciences



Конференц-зал в здании Правительства Москвы на Новом Арбате
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Expected Co-sponsorships



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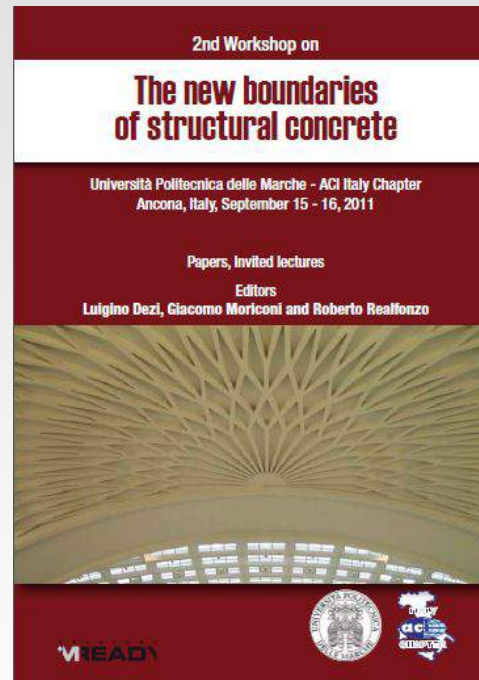
ACI Fall 2016 Convention Philadelphia

CHAPTER ACTIVITIES – Workshop NBSC

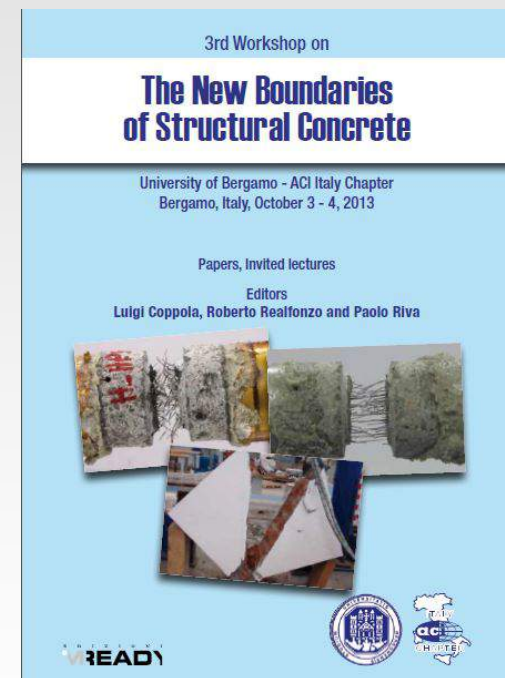
ACI IC Workshop New Boundaries of Structural Concrete



**First Edition
Salerno, April 2010**



**Second Edition
Ancona, September 2011**



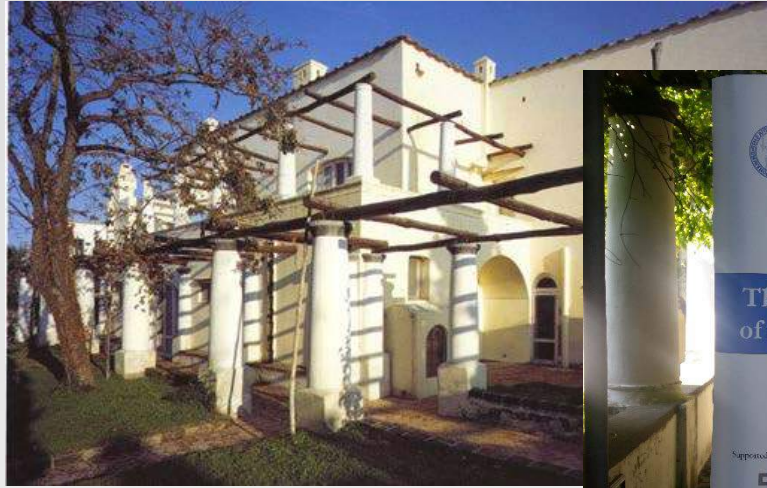
**Third Edition
Bergamo, October 2013**



CHAPTER ACTIVITIES – Workshop NBSC

**IV edition of the Workshop
New Boundaries of
Structural Concrete**
organized by ACI IC and
University of Naples

Villa Orlandi, Capri, Italy
September 30th, October 1st 2016



Organizing Committee

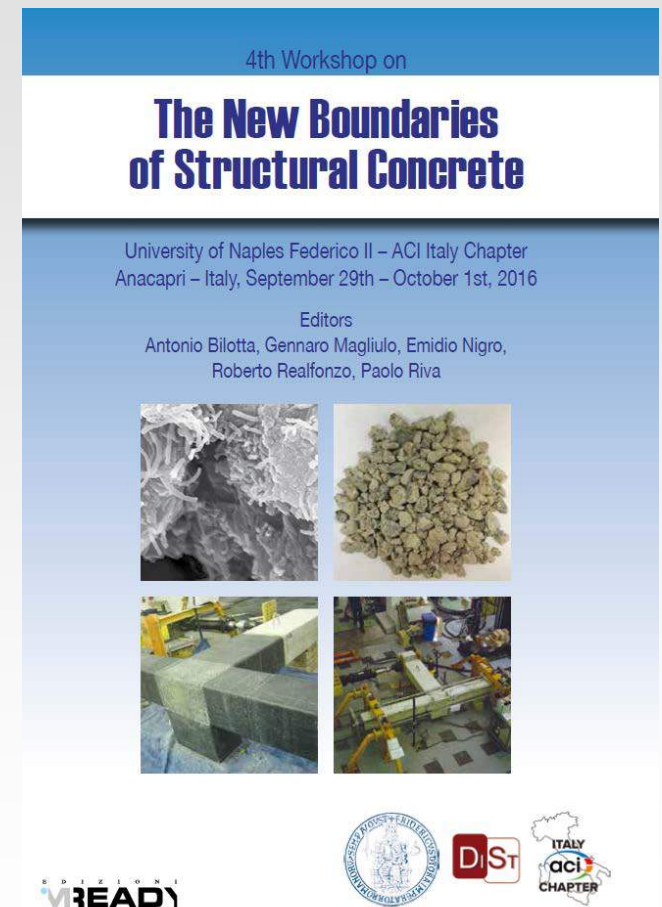
A. Bilotta (Univ. of Naples)
G. Magliulo (Univ. of Naples – ACI IC
Director)
E. Nigro (Univ. of Naples – ACI IC
Director)
R. Realfonzo (ACI IC President)
P. Riva (ACI IC Vice President)



CHAPTER ACTIVITIES – Workshop NBSC

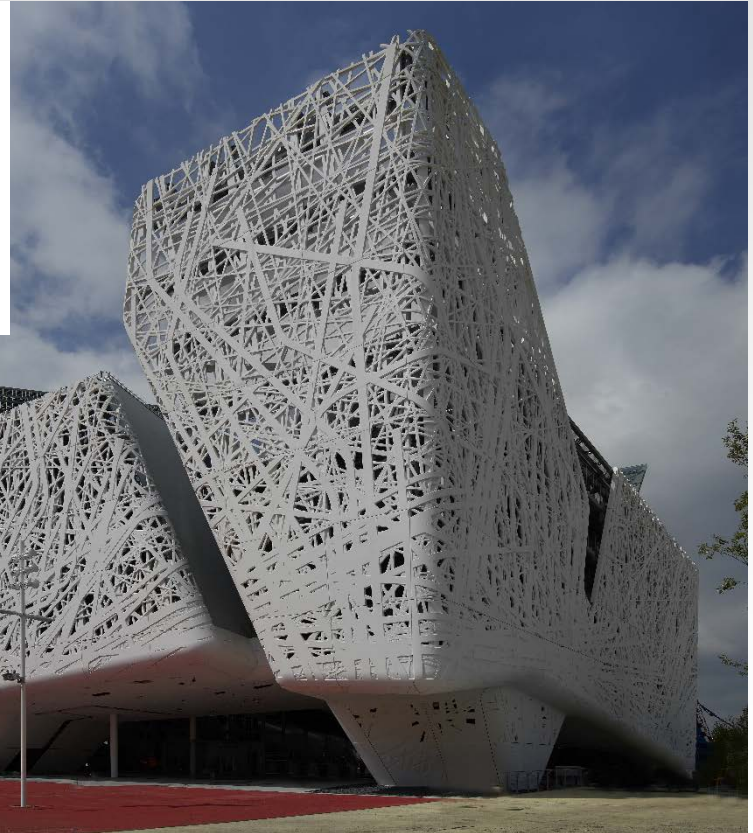
The Scientific Committee has received, reviewed and accepted **45 papers** from National and International authors, collected in the Workshop Proceedings

- **Session A – Performance and life-cycle costs of new concrete structures**
- **Session B – Controlled-performance concrete**
- **Session C – New scenarios for concrete**
- **Session D – Concrete quality control on site**
- **Session E – Innovative strengthening systems for concrete structures**
- **Session F – SUPERCONCRETE Project (H2020-MSCA-RISE-2014, n.645704)**



CHAPTER ACTIVITIES – Excellence in Concrete Award

ACI Italy Chapter served as **Supporting Chapter** for the application of Palazzo Italia (Italian Pavilion – Expo 2015, Milan) at the second Edition of the **Excellence in Concrete Construction Award** for the category “**Decorative Concrete**”



CHAPTER ACTIVITIES – Excellence in Concrete Award

Construction Team Members

Owner

Expo 2015 spa

Architectural Firm

Nemesi & Partners srl

Engineering Firm

Bms progetti srl and Proger Spa

General Contractor Company

Italiana Costruzioni

Concrete Contractor Company

Styl-Comp

Concrete Supplier Company

Italcementi



CHAPTER ACTIVITIES – Certification Programs

ACI Italy Chapter as **Sponsoring Group 2016**

Scientific Committee

Antonio Grimaldi

Giuseppe Marchese

Giacomo Moriconi

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.

Concrete Construction Special Inspector (CCSI) Certification: is a person qualified to inspect and record the results of concrete construction inspection based on codes and job specifications.

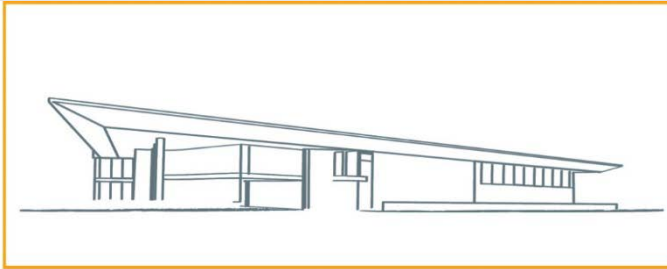
The courses will start in December 2016.



CHAPTER ACTIVITIES – Certification Programs

ACI Italy Chapter as **Sponsoring Group 2016**

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



THANK YOU

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