ACI International Forum

ACI Italy Chapter

Paolo Casadei, Member of the Board of Directors*

* Product Manager Structural Strengthening Division at KERAKOLL Group
ABOUT ACI ITALY CHAPTER (1)

• ACI Italy Chapter is among the 100+ chapters, equally subdivided between USA and abroad (26 in Canada and Latin America, 8 in Europe and 18 in Asia)

• ACI Italy Chapter was funded in 2003 by Professors Antonio Nanni (University of Miami, FL, USA) and Mario Alberto Chiorino (Politecnico di Torino, Italy), now Honorary President of the Chapter

• There are 15 members in the Board, 50% from the academy and 50% from the industry and design bureaus, beside the President

• The members of ACI I.C. are about 100, among them 5 supporting members from the industry (BASF Italia, Heidelberg-Calcestruzzi-Italcementi Group, General Admixtures, Kerakoll and Buzzi Group)

• Roughly 20% of the members are young members (fresh from PhD studies, PhD candidates and associate researchers)
ABOUT ACI ITALY CHAPTER (2)

PRESIDENT, ROBERTO REALFONZO - Associate Professor, University of Salerno, Dept. of Civil Engineering

VICE PRESIDENT, PAOLO RIVA - Full Professor, University of Bergamo, Dept. of Engineering and Applied Science

HONORARY PRESIDENT, MARIO ALBERTO CHIORINNO - Professor Emeritus, Politecnico di Torino, Dept. of Structural, Building and Geotechnical Engineering

DIRECTORS:
Marco Bressan, Engineer - General Admixtures S.p.A.
Paolo Casadei, Product Manager Structural Strengthening Division - Kerakoll Group
Luigi Coppola, Associate Professor - University of Bergamo, Dept. of Engineering and Applied Science
Ciro Faella, Full Professor - University of Salerno, Dept. of Civil Engineering
Liberato Ferrara, Associate Professor - Politecnico di Milano, Dept. of Civil and Environmental Engineering
Marco Francini, Head of Technology and Research & Development – Buzzi Unicem S.p.A
Pietro Gambarova, Professor Emeritus - Politecnico di Milano, Dept. of Civil and Environmental Engineering
Gennaro Magliulo, Assistant Professor - University of Naples, Dept. of Structures for Engineering and Architecture
Emidio Nigro, Full Professor - University of Naples, Dept. of Structures for Engineering and Architecture
Francesco Santonicola, Laboratory Manager - Calcestruzzi S.p.A
Giuseppe Schlitzer, Manager - Federbeton
Ivana Torresan, Segment manager Admixtures and Cement Additives - BASF Contraction Chemicals Italia Spa

Salt Lake City - The Concrete Convention and Exposition
ABOUT ACI ITALY CHAPTER (3)

- **Initiatives at the national level**
  
  Awards to PhD dissertations concerning structural and nonstructural cementitious materials, and R/C-P/C constructions

- **Initiatives at the national/international level**
  
  Workshops on «New Boundaries of Structural Concrete» (2010, Salerno; 2011, Ancona; 2013, Bergamo; 2016, Capri – Naples; 2019, Politecnico di Milano)

- **Initiatives at the international level**
  
  Workshops on «Durability and Sustainability of Concrete Structures» (2015, Bologna – Italy; 2018, Moscow – Russia)

- **Participation at international conventions**
  

- **Training Initiatives**
  
  Professional courses for building-site and laboratory technicians
PhD Student Awards 2014 and 2016

**First Edition**
Innovation in Concrete Structures and Cementitious Materials
⇒ 27 dissertations (2012-14)
SAIE – Building and Construction Exhibition 2014 (Bologna, Italy, October 23, 2014)

**Second Edition**
Innovation in Concrete Structures and Cementitious Materials 2016
⇒ 29 dissertations (2015-16)
SAIE – Building and Construction Exhibition 2016 (Bologna, Italy – October 19, 2016)

Three awards offered by Federbeton – Italian Federation of Cement Producers, under the supervision of ACI Italy Chapter
Proceedings edited by:
Roberto Realfonzo – President of ACI Italy Chapter and Pietro G. Gambarova – Member of the Board
The workshop was jointly organized by ACI Italy Chapter and by the Dept. of Civil, Chemical, Environmental and Materials Engineering of the University of Bologna, under the auspices of ACI Committee 201 (Proc. in ACI SP 305)
1st Int. Workshop DSCS 2015 (2)

Keynote Lectures:

From the "old" to a "new" construction industry-sustainability design of structures  
Koji SAKAI - Japan Sustainability Institute

Building toward a sustainable and resilient future  
Julie BUFFENBARGER – Lafarge

New trends in service life design  
Giuseppe MANCINI - Department of Structural, Geotechnical and Building Engineering, Politecnico di Torino

Prediction of service life of reinforced concrete by considering the initiation and the propagation periods  
Carmen ANDRADE PERDIX - Institute of Construction Sciences “Eduardo Torroja” - CSIC

Structural Concrete in the Epoch of Sustainable Development  
Vyacheslav FALIKMAN - Moscow State University of Civil Engineering (MSUCE)

Durability of concrete subjected to high temperature fields: continuum and discrete constitutive approaches  
Guillermo ETSE - CONICET, National University of Tucumán
The workshop is organized by the American Concrete Institute Italy Chapter and the Russian Engineering Academy with the assistance of the Russian Academy of Sciences and the Russian Academy of Architecture and Construction Science.

The Workshop is co-sponsored by:
- American Concrete Institute and its Committees: C130 (Sustainability of Concrete), C201 (Durability of Concrete), C446 (Fracture Mechanics of Concrete - Joint ACI/ASCE), C544 (Fiber Reinforced Concrete), C549 (Thin Reinforced Cementitious Products and Ferrocement)
- fib (Federation for Structural Concrete)
- RILEM (International union of laboratories and experts in construction materials, systems and structures)

The Workshop is included in the ACI Ambassador Program

The Workshop will take place on 6-7 June 2018, at Izmailovo Congress Centre, Moscow
### Organizing Committee
- V. Falikman, Chair (Russia)
- R. Realfonzo, Chair (Italy)
- L. Coppola (Italy)
- P. Hájek (Czech Republic)
- P. Riva (Italy)

### Local Organizing Committee
- B. V. Gusev, (Chair)
- A. I. Zvezdov
- V. F. Stepanova
- L. S. Barinova
- Y. I. Kuznetsov
- M. E. Leybman
- V. I. Travush
- A. Davidyuk

### Honor Committee
- M.A. Chiorino (Italy)
- M. Collepardi (Italy)
- B. V. Gusev (Russia)
- K. Sakai (Japan)
- S. P. Shah (USA)

### Around 150 submitted papers

The full papers will be collected in an ACI Special Publication
2\textsuperscript{nd} Int. Workshop DSCS 2018 (3)

Tentative Program

**June 6\textsuperscript{th}, 2017**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>08:30</td>
<td>Registration</td>
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<tr>
<td>09:00</td>
<td>Opening welcome</td>
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<tr>
<td>09:30</td>
<td><strong>Keynote Lecture - N. Banthia</strong></td>
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<tr>
<td>10:00</td>
<td>Parallel Sessions</td>
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<td>11:30</td>
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<tr>
<td>12:00</td>
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<td>13:30</td>
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<td>14:30</td>
<td><strong>Keynote Lecture - H. Muller</strong></td>
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<td>15:00</td>
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<td>16:30</td>
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<td>17:00</td>
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**June 7\textsuperscript{th}, 2017**

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<th>Time</th>
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<tr>
<td>08:30</td>
<td><strong>Keynote Lecture - R. Gettu</strong></td>
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<td>09:00</td>
<td><strong>Keynote Lecture - S. Shah</strong></td>
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<td><strong>Keynote Lecture - D. Hooton</strong></td>
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<td>16:30</td>
<td>Parallel Sessions</td>
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<tr>
<td>18:00</td>
<td>Conclusion</td>
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</table>

11 sessions on DURABILITY
10 sessions on SUSTAINABILITY
2 sessions on FRC
3 sessions on RETROFIT
3 sessions on RECYCLE
Other topics
Keynote Lectures:

Bio-Inspired Fiber Reinforced Concrete for the Next Generation Sustainable, Smart and Sleek Infrastructure
Nemkumar (Nemy) BANTHIA - Canada India Research Center of Excellence – ACI Ambassador Speaker

Considerations of sustainability in the mixture proportioning of concrete for strength and durability
Ravindra GETTU - Industrial Consultancy & Sponsored Research Indian Institute of Technology Madras, India

Performance-based Concrete Design for Durability and Sustainability
R. Doug HOOTON - Chair of ACI Subcommittee 130-A, Secretary of ACI Committee 201, Durability of Concrete

Design approach and properties of a new generation of sustainable structural concretes
Harald S. MÜLLER - Immediate Past President of the International Federation for Structural Concrete

Nano-Engineered Meta Cement-Based Materials and Durability
Surendra P. SHAH - Center for Advanced Cement Based Materials Northwestern University Evanston, USA
New Boundaries of Structural Concrete

1st Workshop on
THE NEW BOUNDARIES OF STRUCTURAL CONCRETE
University of Salerno - April 23-25, 2010
A. Grilli, G. Pilzari, R. Realffonzo
Editors

2nd Workshop on
The new boundaries of structural concrete
Università Politecnica delle Marche - ACI Italy Chapter
Ancona, Italy, September 12 - 15, 2011
Papers, invited lectures
Editors
Luigino Dazi, Giacomo Mercioni and Roberto Realffonzo

3rd Workshop on
The New Boundaries of Structural Concrete
University of Bergamo - ACI Italy Chapter
Bergamo, Italy, October 3 - 4, 2013
Papers, invited lectures
Editors
Luigi Coppola, Roberto Realffonzo and Paolo Riva

4th Workshop on
The New Boundaries of Structural Concrete
University of Naples Federico II - ACI Italy Chapter
Anacapri - Italy, September 29th - October 1st, 2016
Editors
Antonio Biotti, Grimaldi Maggiolo, Ennio Nigro,
Roberto Realffonzo, Paolo Riva

First edition
Salerno, April 2010

Second edition
Ancona, September 2011

Third edition
Bergamo, October 2013

Fourth edition
Anacapri, October 2016
Among the others, the workshop deals with the following topics:

• Performance and life-cycle costs of new concrete structures
• Controlled-performance concrete
• New scenarios for concrete
• On-site quality control of concrete
• Innovative strengthening systems for concrete structures
• Ultra High-Strength Concretes: ongoing projects and recent achievements

Future edition: Politecnico di Milano, September 2019

Abstract Submission Deadline: January 15, 2019
ACI Excellence in Concrete Award

In the Spring 2016, ACI - Italy Chapter proposed the candidacy of Palazzo Italia (Italian Pavilion at the Expo 2015, Milan) to the second edition of ACI Excellence in Concrete Construction Award - Category “Decorative Concrete” (Philadelphia, USA, October 25, 2016). Palazzo Italia got both the first award in the category Decorative Concrete and the Excellence in Concrete Construction Award (25/11/2016)

Construction Team Members

Owner: Expo 2015 Co.
Architectural Firm: Nemesi & Partners Ltd
Engineering Firm: Bms Progetti Ltd and Proger Co.
General Contractor: Italiana Costruzioni Ltd
Concrete Contractor: Styl-Comp Ltd
Cement Supplier: Italcementi Group

Michael J. Schneider

« [...] The project visit was very memorable. The structure is way more impressive in person than in pictures. Its award is certainly well deserved.»

Concrete International – October 2017
ACI Italy Chapter has recently participated to the XIII International Convention organized by ACI Perù. The Convention dealt with the Rehabilitation of Historical and Current Buildings of Concrete and Masonry.
ACI Certification Courses (1)

ACI Italy Chapter is the only European chapter recognized by ACI to certify (by means of on-line courses, laboratory tests and exams):

**First-level technicians for concrete testing on site**

- **Required skills**: mastery of the experimental procedures and paperwork related to testing cementitious materials at the fresh state (7 basic tests).

**Concrete Construction Specialized Inspector – CCSI certificate**

- **Required skills**: mastery of the procedures, operations and documents required to certify the inspections on R/C buildings according to the ongoing technical and safety norms.
## ACI Certification Courses (2)

### Concrete Field Testing Technician Grade I

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Online lessons will be available for e-learning courses

Salt Lake City - The Concrete Convention and Exposition
Thank you for your attention!

www.aciitaly.com
aciitalychapter@gmail.com