



## ACI Italy Chapter

# Activity Report 2003-2014

**Roberto Realfonzo**  
President of ACI Italy Chapter  
University of Salerno

**Mario Alberto Chiorino**  
ACI International Advisory Committee  
Hon. President of ACI Italy Chapter  
Hon. Member of ACI  
Politecnico di Torino

ACI Italy Chapter, Bergamo, September 16, 2014

## October 2003: foundation of ACI Italy Chapter

- ✓ Organizing Committee chaired by **Antonio Nanni**  
First President **Mario Alberto Chiorino**




- ✓ Headquarter at the **University of Naples Federico II**



- ✓ The first "Charter" approved in December




ACI Italy Chapter, Bergamo, September 16, 2014


## First Board of ACI Italy Chapter (2004-08)

**President**  
Mario Alberto Chiorino (*Politecnico di Torino*)

**Vice President**  
Maria Rosaria Pece (*University of Sannio*)

**Other Members of the Board**  
Raffaele Cioffi (*University of Basilicata*)  
Mario De Stefano (*University of Florence*)  
Ciro Faella (*University of Salerno*)  
Antonio Grimaldi (*University of Roma "Tor Vergata"*)  
Giuseppe Marchese (*Italcementi Group*)  
Giacomo Moriconi (*University of Marche*)  
Alberto Pavese (*University of Pavia*)  
Michele Valente (*General Admixtures SpA*)

**Secretary**  
Gennaro Magliulo (*University of Naples Federico II*)




ACI Italy Chapter, Bergamo, September 16, 2014

## Chapter Officers 2009-12

**President:** Michele Valente (*General Admixtures SpA*)

**Vice President:** Roberto Realfonzo (*University of Salerno*)

**Honorary President:** Mario Alberto Chiorino (*Politecnico di Torino*)

**Chapter Board of Directors**  
Raffaele Cioffi (*University of Naples "Parthenope"*)  
Bruno Della Bella (*GRC - Gruppo Centro Nord*)  
Mario De Stefano (*University of Florence*)  
Ciro Faella (*University of Salerno*)  
Antonio Grimaldi (*University of Roma "Tor Vergata"*)  
Michele Matarrese (*Salvatore Matarrese SpA*)  
Giacomo Moriconi (*University of Marche*)  
Emidio Nigro (*University of Naples Federico II*)  
Marisa Pece (*University of Sannio*)  
Giovanni Pizzari (*University of Brescia*)  
Paolo Riva (*University of Bergamo*)

**Secretary:** Marianna Ercolino (*University of Naples Federico II*)




ACI Italy Chapter, Bergamo, September 16, 2014

## The Board today (2013-16)

**President:** Roberto Realfonzo (*University of Salerno*)  
**Vice President:** Paolo Riva (*University of Bergamo*)  
**Honorary President:** Mario Alberto Chiorino (*Politecnico di Torino*)

**Chapter Board of Directors:**

Casadei Paolo	Kerakoll SpA
Coppola Luigi	University of Bergamo
Faella Ciro	University of Salerno
Gambarova Pietro	Politecnico di Milano
Grimaldi Antonio	PROGIN SpA
Luciano Donato	BASF Italia SpA
Magliulo Gennaro	University of Naples Federico II
Marchese Giuseppe	Italcementi Group
Moriconi Giacomo	University of Marche
Nigro Emidio	University of Naples Federico II
Pizzari Giovanni	University of Brescia
Valente Michele	General Admixture SpA



**Secretary:** Marianna Ercolino (*University of Naples Federico II*)




ACI Italy Chapter, Bergamo, September 16, 2014

## 2003

- **October** SAIE 2003 – Bologna  
Seminar on: " **Strengthening RC structures with composite materials**"  
**Speakers:** Tony Nanni, Andrea Prota & Renato Parretti
- **December** University of Salerno  
One day workshop on: " **Using new technologies in structural engineering**"  
**Speakers:** Ciro Faella, Tony Nanni, Emidio Nigro & Roberto Realfonzo





ACI Italy Chapter, Bergamo, September 16, 2014

**October 2003**

**SAIE 2003**

**SAIE 2003 – Bologna Seminar on “Strengthening RC structures with composite materials (FRP)”**  
**Tony Nanni, Andrea Prota & Renato Parretti**



**SAIE 2003 - Sala Genova**  
 Giovedì 19 Ottobre, ore 9:00 - 12:30

**I Compositi per il Rinforzo e la Riabilitazione di Strutture in Cemento Armato**  
 Perché l'uso degli FRP nel rispetto della struttura in cemento armato, il loro impiego è economico e non riproducibile negli altri stati?

**PROGRAMMA**  
 Il corso introdurrà i sistemi Reinforced FRP, finalizzati alla riparazione pratica di strutture in cemento armato in caso di deterioramento della struttura in cemento armato. Il corso analizzerà le tecniche di progettazione e di esecuzione, nonché le proprietà meccaniche, il comportamento e la durabilità di questi sistemi.  
 Si occuperà quindi delle procedure di calcolo e applicazione dei compositi FRP a strutture in cemento armato.  
 Le applicazioni di questi sistemi presentate saranno in progettazione e recenti applicazioni sul campo a strutture deteriorate in caso di danni strutturali. Sarà inoltre illustrata una esperienza con la cura dei restauri di parte di trave ad un sola nervatura.  
 Al seminario seguirà una dimostrazione di parte di trave ad un sola nervatura.

**RELATORI**  
 Prof. Ing. Antonio Prota  
 Università degli Studi di Palermo  
 Dott. Ing. Andrea Prota  
 Università degli Studi di Palermo  
 Dott. Ing. Renato Parretti  
 Università degli Studi di Palermo

ACI Italy Chapter, Bergamo, September 16, 2014

**December 2003**

**University of Salerno Workshop on “Using new technologies in structural engineering”**  
**Ciro Faella, Tony Nanni, Emidio Nigro & Roberto Realfonzo**



**Giornata di studio**  
**Tecnologie Innovative nell'Ingegneria Strutturale**  
 Lunedì 22 dicembre 2003 – ore 9:00  
 Sala delle Lezioni – Facoltà di Ingegneria  
 Università degli Studi di Salerno – Fisciano

ACI Italy Chapter, Bergamo, September 16, 2014

**2004**

- January Italian Edition of ACI 440.2R-02 Document: **“Design and Construction of Externally Bonded FRP Systems for Strengthening Concrete Structures”**
- September Publication of 2 papers **“Concrete in Italy”** on **Concrete International** celebrating the foundation of the Chapter and ACI Centennial
- October **University of Salerno Seminar: “Research Projects and New Guidelines for External Reinforcement of R.C. and Masonry Structures with FRP”**
  - Research Projects
  - Industrial Perspectives
  - Public Agencies
  - Guidelines

ACI Italy Chapter - Italcementi, Bergamo, September 16, 2014


**2004**

- December Visit to the Chapter in Torino by ACI President **Anthony E. Fiorato** and Executive Vice President **William R. Tolley** on the occasion of ACI Centenary:
  - Meeting:
    - ✓ ACI mission and objectives: a century of innovation
    - ✓ Scopes and objectives of local chapters
    - ✓ Annual meeting of the Chapter
  - Seminar:
    - “International associations and harmonization of standards for structural concrete in the global economy: the role of an international ACI Chapter”

Chair: **Mario A. Chiorino** President ACI Italy Chapter  
 Panel: **Franco Levi** Honorary President of CEB and FIP, Honorary Member of ACI  
**Giuseppe Mancini** President of fib  
**Anthony E. Fiorato** President of ACI  
**Giorgio Macchi** Honorary Member of CEB, Italian representative in CEN TC250  
**Edoardo Cosenza** Chairman Org. Comm. fib 2006 Congress

ACI Italy Chapter - Italcementi, Bergamo, September 16, 2014

**Italian Edition of ACI 440.2R-02 Document: “Design and Construction of Externally Bonded FRP Systems for Strengthening Concrete Structures”**



**2004**

ACI Italy Chapter - Italcementi, Bergamo, September 16, 2014

An outline of a century of history and heritage of concrete in Italy

**Concrete international**  
 The Magazine of the American Concrete Institute – an international technical society

SEPTEMBER 2004

**Concrete in Italy**  
**Part I: Technique and Architecture**

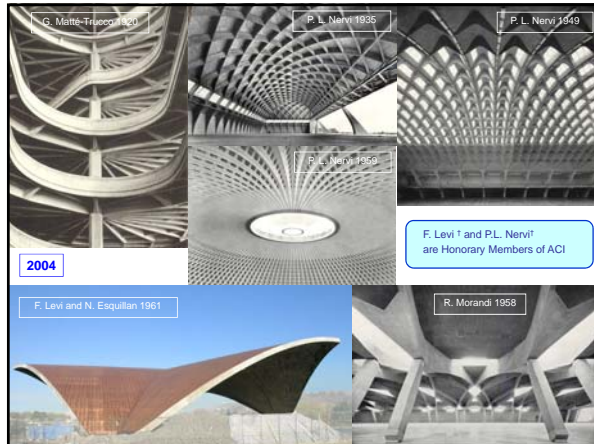
2004

Reviewing a century of concrete progress in Italy

BY **FRANCO LEVI** AND **MARIO A. CHIORINO**




ACI Honorary Member



Outlines the role played by Italian specialists:

- in developing theories,
- in promoting the activity of international associations,
- in the establishment of international model codes for concrete structures.

**Concrete international**  
The Magazine of the American Concrete Institute – an international technical society

OCTOBER 2004

**Concrete in Italy**  
Part 2: Contributions to Theory and Codes

2004

Reviewing a century of concrete progress in Italy

BY FRANCO LEVI AND MARIO A. CHIORINO

December 2004

- ✓ Visit in Torino of ACI President **Anthony E. Fiorato** and Vice President **William R. Tolley**
- ✓ International Seminar: "International associations and harmonization of standards for structural concrete in the global economy: the role of an international ACI Chapter"

2004

International Seminar on harmonization of standards  
fib President Giuseppe Mancini (first row), CEB-FIP Hon. President and ACI Hon. Member Franco Levi (2nd row right) and CEB Hon. Member Giorgio Macchi (3rd row left) assist to the presentation of ACI President Anthony E. Fiorato, Politecnico di Torino, Valentino Castle.

ACI Italy Chapter welcome party  
fib President Giuseppe Mancini (first row), CEB-FIP Hon. President and ACI Hon. Member Franco Levi (2nd row right) and CEB Hon. Member Giorgio Macchi (3rd row left) assist to the presentation of ACI President Anthony E. Fiorato and fib President Giuseppe Mancini.

ACI Italy Chapter : Italcementi, Bergamo, September 16, 2014

September 30 - October 1, 2004

University of Salerno

Seminar: "Research Projects and New Guidelines for External Reinforcement of R.C. and Masonry Structures with FRP"

- Research Projects
- Industrial Perspectives
- Public Agencies
- Guidelines

Chair: Roberto Realforzo, Member of ACI Italy Chapter

Panel: Mario A. Chiorino, President of ACI Italy Chapter  
Antonio Nanni, ACI Italy Chapter Founder  
Franco Macchi, University of Roma "Tor Vergata"  
Luigi Ascione, University of Salerno  
Eduardo Cosenza Chairman Org. Comm. fib 2006 Congress

ACI Italy Chapter : Italcementi, Bergamo, September 16, 2014

2005

- March **University of Appl. Sciences of Southern Switzerland (SUPSI)**  
International Course: "Design of FRP Structural Reinforcements"  
In cooperation with ACI Italy Chapter
- April **ACI Spring 2005 Convention New York City**
  - ✓ International Luncheon – Keynote Lecture:  
"Worldwide Harmonization of Standards for Structural Concrete: Strategies in the Cooperation between fib and ACI"  
G. Mancini, President of fib and Member of ACI Italy Chapter  
Hosted by the International Committee  
Sponsored by ACI Italy Chapter
  - ✓ International Session:  
"Seismic Engineering for Concrete Structures – Italian Perspective"  
Sponsored by ACI Italy Chapter  
Publication of the Proceedings
- April **University of Florence**  
Workshop: "Reinforcement of R.C. and Masonry Structures with FRP"  
Chair: Mario De Stefano

ACI Italy Chapter : Italcementi, Bergamo, September 16, 2014

**March 2005** **University of Applied Sciences of Southern Switzerland (SUPSI)**  
**International Course: "Design of FRP Structural Reinforcements"**




From left to right: R. Suter and E. Cadoni (SUPSI), G. Manfredi and A. Prota (University of Naples and ACI Italy Chapter).





**2005**

ACI Italy Chapter | Italcementi, Bergamo, September 16, 2014

**April 2005** **ACI Spring 2005 Convention New York City**  
 International Luncheon – Keynote Lecture:  
**"Worldwide Harmonization of Standards for Structural Concrete: Strategies in the Cooperation between fib and ACI"**  
 G. Mancini, President of fib and Member of ACI Italy Chapter

- It is the feeling of ACI Italy Chapter that, in spite of widespread contacts and liaison efforts among engineering associations around the world in the past decades, there is still a need for a more intense harmonization of principles and guidelines for codes and standards in the field of structural concrete.
- Mancini's lecture, promoted by Italy Chapter, sets the tone for this auspicious future of tighter conceptual integration between the nodes of an international network gathering professional, research and academic institutions.



From left to right: H. S. Lew, Intern. Conf. Committee Chair; J. R. Cagley, ACI President 2005-06; speaker G. Mancini, fib President and ACI Italy Chapter Member; A. E. Fiorato ACI President 2004-05; and R. D. Stealy, Intern. Committee Chair

**2005**

ACI Italy Chapter | Italcementi, Bergamo, September 16, 2014

**April 2005** **ACI Spring 2005 Convention New York City**  
 International Session:  
**"Seismic Engineering for Concrete Structures – Italian Perspective"**

**Seismic Engineering for Concrete Structures**  
 Italian Perspective  
 Editors: Mario A. Chiorino and Antonio Nanni



ACI Spring Convention New York City April 2005

- ACI Italy Chapter, in organizing this session for the celebration of ACI centennial, considered that the presentation of selected examples of research developed in Italy could positively contribute to enhance the international debate in a crucial field of concrete engineering still open to further progress.
- The topics of the sessions included:
  - probabilistic studies,
  - analysis and design criteria for irregular buildings,
  - experimental analysis of shear elements,
  - isolation and damping strategies,
  - assessment of RC existing buildings, and the related retrofiting strategies.

**Includes:**  
 International Luncheon Keynote Lecture:  
**Worldwide Harmonization of Standards for Structural Concrete: Strategies in the Cooperation between fib and ACI**  
 by fib president Giuseppe Mancini



ACI Italy Chapter members in New York City, with at center: Antonio Nanni, Editor and Founder of Chapter; Mario A. Chiorino, Editor and Chapter President; Marisa Pecco, Chapter Vice President.

**2005**

ACI Italy Chapter | Italcementi, Bergamo, September 16, 2014

**University of Florence, Santa Verdiana**  
**Workshop: "Strengthening RC and Masonry Structures with FRP"**  
 Chair: **M. De Stefano**




UNIVERSITÀ DEGLI STUDI DI FIRENZE  
 FACOLTÀ DI ARCHITETTURA  
 DIPARTIMENTO DI COSTRUZIONI  
 DOTTORATO DI RICERCA  
 Materiali e strutture per l'Architettura  
 Gruppo di studio  
 Rinfresco di strutture in c.a. e in mattoni con uso di compositi polimerici fibro-rinforzati  
 1 Aprile 2005  
 P.zza Galvani, 7 - FIRENZE

Coordinatori:  
 Prof. Marco De Stefano  
 Dipartimento di Costruzioni - Università degli Studi di Firenze  
 Via dei Nudi, 1 - Firenze  
 50132 (Firenze)  
 mde@dispc.unifi.it

Subordinati:  
 Arch. Marco Tanganelli  
 Dipartimento di Costruzioni - Università degli Studi di Firenze  
 Viale G. Galvani, 1 - Firenze  
 50132 (Firenze)  
 mtanganelli@unifi.it

**2005**

ACI Italy Chapter | Italcementi, Bergamo, September 16, 2014

**2006**

**June** **On the occasion of the Second Congress of fib in Naples**  
 ACI Italy Chapter hosted a welcome reception honoring:

- ACI Officials: Past President J. Cagley and Executive Vice President W. Tolley
- fib President: G. Mancini
- the Chair of the Congress Organizing Committee: E. Cosenza.

The meeting offered the chance for continuing the discussion on the themes of worldwide harmonization of standards for structural concrete and of the cooperation between fib and ACI that formed the subject of the previous initiatives of ACI Italy Chapter.

A consensus was expressed on the need to extend this cooperation and to accelerate the harmonization process, as imposed by the increasingly global character of the market of the concrete construction industry, and an appreciation was expressed for the role that may be played by ISO in this context.

Following the reception, ACI Italy Chapter Officers presented to ACI Past President Cagley the volume of the proceedings of the New York Session on Seismic Engineering.


**2006**

ACI Italy Chapter | Italcementi, Bergamo, September 16, 2014

**2006**

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 ACI Italy Chapter hosted a welcome reception honoring:

- ACI Officials: Past President J. Cagley and Executive Vice President W. Tolley
- fib President: G. Mancini
- the Chair of the Congress Organizing Committee: E. Cosenza.



ACI Italy Chapter Board with at center:  
 Antonio Nanni, Founder of Chapter; William R. Tolley, ACI Executive Vice President;  
 James R. Cagley, ACI President 2005-06; Marisa Pecco, ACI Italy Chapter Vice President; Mario A. Chiorino, ACI Italy Chapter President

**2006**

ACI Italy Chapter | Italcementi, Bergamo, September 16, 2014





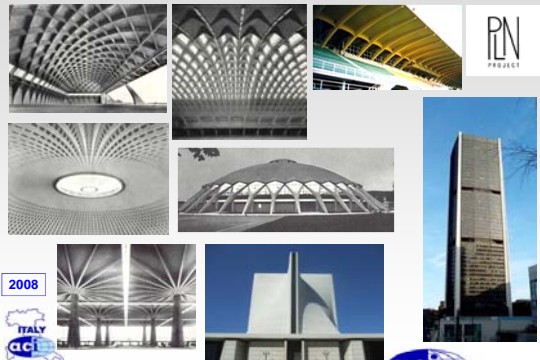
November 2008 **ACI Fall 2008 Convention St. Louis**

✓ International Luncheon – Keynote Lecture:  
**"The repair and maintenance of aging R. C. bridges"**  
 Konrad Bergmeister (Italy), Professor at the University of Vienna, Austria, Chair /B Task Group 5.1  
*Monitoring and safety Evaluation of Existing Structures*



ACI Italy Chapter | Italcementi, Bergamo, September 16, 2014

November 2008 ✓ ACI Co-sponsorship for P. L. Nervi International Exhibit  
**"PIER LUIGI NERVI: Architecture as Challenge"**



ACI Italy Chapter | Italcementi, Bergamo, September 16, 2014

November 2008 ✓ ACI Co-sponsorship for P. L. Nervi International Exhibit  
**"PIER LUIGI NERVI: Architecture as Challenge"**

Future locations  
 Rome  
 Turin  
 London  
 Montreal  
 Miami  
 Los Angeles  
 San Francisco,...



ACI Italy Chapter | Italcementi, Bergamo, September 16, 2014

## 2009

January Election of the **"Board of Directors"**  
 Michele Valente is the new President  
 Mario Alberto Chiorino, nominated Honorary President  
 Vice President is Roberto Realfozno

October Dick Stehly, ACI Vice President, visits the Italy Chapter

**Workshops:**

1. *Design of new Structures and Retrofitting of Existing ones: the Approach of the main European & North American codes*  
**"Sapienza" University of Roma**
2. *Innovations and American-Italian Experiences in the field of concrete and of materials for constructions*  
**SAIE Expo, Bologna**

ACI Italy Chapter, Bergamo, September 16, 2014

**Workshop OICE - ACI ITALY CHAPTER, Rome, October 2009**



October 2009

**Design of new Structures and Retrofitting of Existing ones: the Approach of the main European & North American codes**

ACI Italy Chapter, Bergamo, September 16, 2014

oice  
 Associazione delle Organizzazioni di Ingegneria di Architettura e di Consulenza tecnico-economica  
 organizzano il Convegno:  
 La Progettazione delle Grandi Opere e gli interventi sulle Strutture Esistenti: l'Approccio delle Principali Normative Europee e Nordamericana  
 Roma  
 Martedì, 27 Ottobre 2009  
 Capitaneria Università di Roma  
 Facoltà di Architettura "Vittorio Ghisleri"  
 Aula Magna  
 Sede Centrale, Viale Salaria, 51

**SAIE 2009, BOLOGNA**

**Workshop: "Innovations and American-Italian Experiences in the field of concrete and of materials for constructions"**

October 2009



From left: Tony Nanni, ACI Italy Chapter Founder; Michele Valente, ACI Italy Chapter President; Roberto Realfozno, ACI Italy Chapter Vice President; Marco Savoia, University of Bologna; Dick Stehly, ACI Vice President

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FEDERBETON  
 promosso da Federbeton di SAIE 09  
 Innovazioni ed esperienze Americane ed Italiane nel settore del calcestruzzo e dei materiali per le costruzioni  
 un Convegno organizzato da American Concrete Institute Italy Chapter e da  
 Consulta per il Calcestruzzo  
 Mercoledì, 28 Ottobre 2009 (14.30-18.30)  
 International Building Exhibition 09  
 SAIE Concrete @ BolognaFiere  
 Gallery Hall 25-26



## 2010

**February** **MADE Expo, Milan**  
**Conference: "Durability and Life Cycle of Concrete Structures"**

**April** **University of Salerno**  
**1<sup>st</sup> International Workshop on "The new boundaries of structural concrete"**  
**Chairs: Antonio Grimaldi, Giovanni Pizzari, Roberto Realfonzo**

**June** **First venues of the P. L. Nervi International Exhibit**  
**"PIER LUIGI NERVI: Architecture as Challenge"**  
**ACI Co-Sponsorship**  
 Brussels: June-August  
 Venice: September-November

**September** **President Dick Stehly and Executive Vice President Ron Burg visit the Chapter**  
**Workshop: "Concrete structures: what future?"**  
**"Sapienza" University of Roma**


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### MADE Expo, Milan

#### Conference on "Durability and Life Cycle of Concrete Structures"

**February 2010**




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**April 2010**

**University of Salerno**  
**1<sup>st</sup> Workshop: "The new boundaries of structural concrete"**




From left: **Giovanni Pizzari**, Chair & Board Member; **Michele Valente**, ACI Italy Chapter President; **Mario Collepari**, ACI Honorary Member; **Surendra P. Shah**, ACI Honorary Member; **Roberto Realfonzo**, Chair & ACI Italy Chapter Vice President; **Antonio Grimaldi**, Chair & Board Member




ACI Italy Chapter, Bergamo, September 16, 2014

**Workshop "CONCRETE STRUCTURES: WHAT FUTURE?"**  
**Sapienza University of Rome - September 13, 2010**






ACI Italy Chapter, Bergamo, September 16, 2014

*One of our friends sadly passed away*  
*The last nice message from Dick*



**From:** "Stehly, Richard" <rstehly@amengtest.com>  
**To:** "Prof. Roberto Realfonzo" <realfonzo@unisa.it>  
**Date:** Thu, 16 Sep 2010 13:15:010500  
**Subject:** Chapter meeting

*Hi Roberto,*

*Sorry we did not have much time to catch up.*

*Next time we will allow more time to visit. Thanks for all your efforts in making the Italy Chapter Great.*




**Dick Stehly**  
**President ACI**




ACI Italy Chapter, Bergamo, September 16, 2014

**March 2010**

**ACI Spring 2010 Convention Chicago**  
**"International Session "Tall Buildings"**  
 Mario A. Chiorini, Politecnico di Torino, Co-Moderator


ACI Italy Chapter | Italcementi, Bergamo, September 16, 2014

## 2011

**May** CISM, International Centre for Mechanical Sciences, Udine  
 International Advanced Course: "Analysis of Creep and Shrinkage Effects in Concrete Structures"  
 coordinated by Mario A. Chiorino and Domingo Carreira  
 ACI kindly conferred its patronage

**September** University of Ancona  
 2nd International Workshop on "The new boundaries of structural concrete"  
 Chairs: Luigino Dezi, Giacomo Moriconi, Roberto Realfonzo

**October** MADE Expo, Milan  
 1. Workshop: "Building concrete structures in a sustainable way"  
 2. Workshop: "Structural design of RC tall buildings"




ACI Italy Chapter - Italcementi, Bergamo, September 16, 2014

**May 2011**



**CISM International Centre for Mechanical Sciences**  
 Udine, Italy, May 23-27, 2011

International Advanced Course  
**Analysis of Creep and Shrinkage Effects in Concrete Structures**

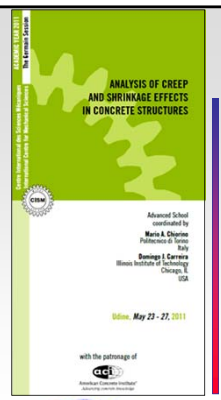
The Course, attended by 35 international students from Europe, Asia and America and coordinated by ACI Fellows Mario A. Chiorino and Domingo Carreira, represented a good occasion to:

- illustrate the fundamentals of the new ACI Guide on the same subject, presently under final approval within ACI 209 Committee
- discuss the compliance with the principles of the new fib Model Code 2010.

✓ ACI kindly conferred its patronage







ACI Italy Chapter - Italcementi, Bergamo, September 16, 2014



**2nd International Workshop:**  
 "The New Boundaries of the Structural Concrete"

September, 2011

ACI Italy Chapter - Italcementi, Bergamo, September 16, 2014

**October, 2011** Two workshops at the MADE Expo



1. Workshop: "Structural design of RC tall buildings"  
 2. Workshop: "Building concrete structures in a sustainable way"  
 Chair: Roberto Realfonzo, Vice President ACI Italy Chapter






ACI Italy Chapter - Italcementi, Bergamo, September 16, 2014

## 2012

**March** ACI Spring 2012 Convention Dallas  
 ✓ International Luncheon – Keynote Lecture:  
 "Art and Science of Building in Concrete: the Work of PIER LUIGI NERVI"  
 M. A. Chiorino, Politecnico di Torino

✓ International Session:  
 "Structural Concrete: An Art Form"  
 M. A. Chiorino, Politecnico di Torino, Co-Moderator

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## 2012

**October** ACI Fall 2012 Convention Toronto  
 ✓ International Luncheon – Keynote Lecture:  
 "Forming our Future with Innovation and Design"

Michel Virlogeux (France), First President of fib International Federation for Structural Concrete  
 Lecture promoted by Mario A. Chiorino, member of ACI International Advisory Committee and Hon. President of ACI Italy Chapter

University of Bergamo, Chiostra di Sant'Agostino  
 ✓ Workshop on "Connections in Precast Structures"  
 Chairs: Paolo Riva, Roberto Realfonzo

MADE Expo, Milan  
 ✓ Workshop on "Safety, Sustainability & Durability: keywords in designing concrete"  
 Chair: Roberto Realfonzo




ACI Italy Chapter - Italcementi, Bergamo, September 16, 2014



March 2012 **ACI Spring 2012 Convention Dallas**  
 ✓International Luncheon – Keynote Lecture:  
**"Art and Science of Building in Concrete: the Work of PIER LUIGI NERVI"**  
 M. A. Chiorino, Politecnico di Torino

ACI American Concrete Institute  
**Dallas Convention: "The Art of Concrete"**  
 Sunday, March 18, 2012  
 12:00 pm – 2:00 pm

Sponsored by the ACI International Committee

Speaker: **Mario A. Chiorino**  
 Emeritus Professor of Structural Analysis  
 Politecnico di Torino  
 Turin, Italy

Topic: **Art and Science of Building in Concrete: the Work of Pier Luigi Nervi**

Pier Luigi Nervi is one of the greatest and most innovative structural engineers of the 20th Century. With his inventiveness, he defined the world's concrete. His contributions to modern structural concrete are of a high order. Nervi's Professor described him as "the most brilliant artist in reinforced concrete of our time", while, with his profound knowledge of concrete materials, he defined the answer to the fundamental question: "Concrete or art of building?" that was his most famous book published in 1956. For him understanding the separation of the mechanics of structural systems, the unadorned emphasis of the priority of the structure moment in the conception of structural architecture.

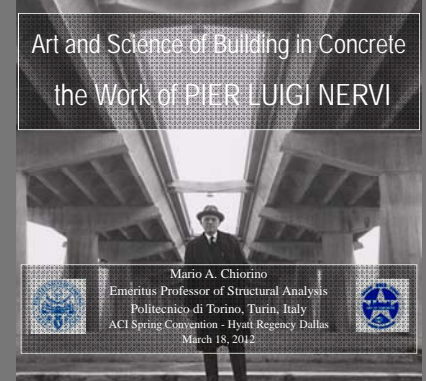
In this topic – that he shares with other masters of structural architecture of the 20th century like, he did just a few, Eduardo Torroja, Otto Konrad and Joseph Sauer – Nervi has left the technical field to use artistic freedom. In his scientific assessment of structural design, he brought mathematics, he believes that structural imagination frequently transcends the possibilities – as the lines confined by the lack of modern computational structural analysis – of scientific rational methods. The insight for a design freedom was also the principal justification for his keen interest for experimental research on mechanical tests.

The true art of Nervi, and of these other master practitioners, is the ability of composing the structure and the construction system that together permit a creative, critical reasoning, at the intersection of the engineering and design, and of the design into a construction, in the hands of people of the engineers, but also of architects and other professional collaborators.

The lecture will review some of Nervi's major works, with a special attention to those that he realized in North America. He, among others, St. Mary Cathedral in San Francisco, the George Washington Bus Station in New York, Park Victoria Tower in Montreal, and will consider a series of the international activities. Pier Luigi Nervi: Architecture as Challenge, as presented to ACI, appeared for the first time in North America in 2012.

ACI Italy Chapter | Italcementi, Bergamo, September 16, 2014

## Art and Science of Building in Concrete the Work of PIER LUIGI NERVI



Mario A. Chiorino  
 Emeritus Professor of Structural Analysis  
 Politecnico di Torino, Turin, Italy  
 ACI Spring Convention - Hyatt Regency Dallas  
 March 18, 2012

ACI Italy Chapter | Italcementi, Bergamo, September 16, 2014

March 2012 **ACI Spring 2012 Convention Dallas**  
 ✓Concrete International:  
**"Art and Science of Building in Concrete: the Work of PIER LUIGI NERVI"**  
 M. A. Chiorino, Politecnico di Torino



**Concrete International**  
**Decorative & Architectural Concrete**  
 22 Art and Science of Building in Concrete: The Work of Pier Luigi Nervi

**Art and Science of Building in Concrete: The Work of Pier Luigi Nervi**  
 International workshop and ACI Spring 2012 Convention session  
 are dedicated to the grand master of concrete structures.  
 by Mario A. Chiorino

ACI Italy Chapter | Italcementi, Bergamo, September 16, 2014

March 2012 **ACI Spring 2012 Convention Dallas**  
 ✓International Session:  
**"Structural Concrete: An Art Form"**  
 M. A. Chiorino, Politecnico di Torino, Co-Moderator

Sunday, March 18, 2012  
 9:00 am – 11:30 am

International Session: "Structural Concrete: An Art Form"  
 Moderated by: **Mario A. Chiorino**

Speakers: **Mario A. Chiorino**, **Roberto Realfonzo**, **Paolo Riva**, **Michael Wilgenius**, **Michel Virlogeux**, **Yoshio Yamashita**

Topic: **Structural Concrete: An Art Form**

During this International Session, this topic intends to review the work of some great masters and to highlight the contribution of structural engineering and art to specific built-up structures and the design of the structure and its construction. The session will be moderated by Mario A. Chiorino. The speakers will discuss the use of structural concrete in the design of buildings, bridges, and other structures. The session will also include a presentation of the work of some great masters and a discussion of the contribution of structural engineering and art to specific built-up structures and the design of the structure and its construction.

Topic: **Structural Concrete: An Art Form** (Moderated by Mario A. Chiorino)

Speakers: **Mario A. Chiorino**, **Roberto Realfonzo**, **Paolo Riva**, **Michael Wilgenius**, **Michel Virlogeux**, **Yoshio Yamashita**

Topic: **Structural Concrete: An Art Form**

During this International Session, this topic intends to review the work of some great masters and to highlight the contribution of structural engineering and art to specific built-up structures and the design of the structure and its construction. The session will be moderated by Mario A. Chiorino. The speakers will discuss the use of structural concrete in the design of buildings, bridges, and other structures. The session will also include a presentation of the work of some great masters and a discussion of the contribution of structural engineering and art to specific built-up structures and the design of the structure and its construction.

ACI Italy Chapter | Italcementi, Bergamo, September 16, 2014

October 2012 **ACI Fall 2012 Convention Toronto**  
 ✓International Luncheon – Keynote Lecture:  
**"Forming our Future with Innovation and Design"**  
 Michel Virlogeux (France), First President of fib International Federation for Structural Concrete  
 Lecture promoted by Mario A. Chiorino, member of ACI International Advisory Committee and Hon. President of ACI Italy Chapter

**Forming our Future with Innovation and Design**



**Modern Trends in Bridge Design in Europe**  
 Sunday October 20, 2012  
 10:00 am – 12:00 pm



Guest Speaker: **Professor Michel Virlogeux**  
 Internationally renowned bridge engineer, Professor Michel Virlogeux, will provide you with a firsthand look into the unique and innovative bridge designs. During this enlightening, international Luncheon, throughout his twenty years with the French Administration, Professor Virlogeux designed more than 100 bridges, including the world-famous Bix Creek Bridge. Some of his other major achievements include his participation in the construction of the famous Tappan Zee Bridge in Canada and the design of the Sydney Harbour Bridge.

ACI Fall 2012 Convention  
 October 19-20, 2012 | Premier Luncheon | Toronto, ON Canada  
 International Federation for Structural Concrete

ACI Italy Chapter | Italcementi, Bergamo, September 16, 2014

**Bergamo, Workshop:**  
**"Connections in Precast Structures"**  
 Chairs: Paolo Riva & Roberto Realfonzo

October, 2012

**I Collegamenti nelle Strutture Prefabbricate**

Atti del Workshop  
 I Collegamenti nelle Strutture Prefabbricate  
 Commissionato da Precast Structures  
 19 October 2012  
 Università di Bergamo - Chiorino & S. Agostino  
 Paolo Riva - Roberto Realfonzo, Editor

ACI Italy Chapter | Italcementi, Bergamo, September 16, 2014

## MADE Expo '12

"Safety, Sustainability & Durability: keywords in designing concrete"

**MADE Expo 2012**  
FORUM DELLA TECNICA DELLE COSTRUZIONI

**SOSTENIBILITÀ, DURABILITÀ e SICUREZZA: PAROLE CHIAVE PER IL CALCESTRUZZO**

**18 Ottobre 2012**  
SALA Gioiello (P. Palini)  
Folgiate 18

Organizzato da:  
**American Concrete Institute**  
Italy Chapter

Coordinatore per il Forum della Tecnica delle Costruzioni: **Paolo Riva**

14.00 Incontro di benvenuto  
14.15 Incontro di benvenuto  
14.30 Incontro di benvenuto  
14.45 Incontro di benvenuto  
14.55 Incontro di benvenuto  
15.00 Incontro di benvenuto  
15.15 Incontro di benvenuto  
15.30 Incontro di benvenuto  
15.45 Incontro di benvenuto  
16.00 Incontro di benvenuto  
16.15 Incontro di benvenuto  
16.30 Incontro di benvenuto  
16.45 Incontro di benvenuto  
17.00 Incontro di benvenuto  
17.15 Incontro di benvenuto  
17.30 Incontro di benvenuto  
17.45 Incontro di benvenuto  
18.00 Incontro di benvenuto

**October, 2012**

## 2013

**January** Election of the new "Board of Directors"  
**Roberto Realfonzo** is the President  
Vice President is **Paolo Riva**

**September** University of Bergamo  
**3rd International Workshop on "The new boundaries of structural concrete"**  
Chairs: **Paolo Riva, Luigi Coppola, Roberto Realfonzo**

**October** **MADE Expo, Milan**  
Workshop: "Repairing & Seismic Retrofitting RC Structures with FRC, FRP, FRCM"  
Chairs: **Roberto Realfonzo, Michele Valente**

**SAIE Expo, Bologna**  
"ACI Italy Chapter: Now & the Future"  
Speaker: **Roberto Realfonzo, ACI Italy Chapter President**

ACI Italy Chapter, Bergamo, September 16, 2014

## 3rd International Workshop

"The New Boundaries of the Structural Concrete"

**September, 2013**

ACI Italy Chapter, Bergamo, September 16, 2014

## MADE Expo '13

"Repairing & Seismic Retrofitting RC Structures with FRC, FRP, FRCM"

**MADE Expo 2013**  
Roberto Realfonzo, delegato nazionale italiano al comitato di studio e collaborazione internazionale per la ricerca e l'innovazione in materia di strutture in calcestruzzo armato e in materiali fibroreforzati ad alte prestazioni e con sistemi a compenso a matrici polimeriche o cementizie

**5 Ottobre 2013**  
Folgiate 10 - Area FRC

Organizzato da:  
**American Concrete Institute**  
Italy Chapter

14.00 Incontro di benvenuto  
14.15 Incontro di benvenuto  
14.30 Incontro di benvenuto  
14.45 Incontro di benvenuto  
14.55 Incontro di benvenuto  
15.00 Incontro di benvenuto  
15.15 Incontro di benvenuto  
15.30 Incontro di benvenuto  
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16.30 Incontro di benvenuto  
16.45 Incontro di benvenuto  
17.00 Incontro di benvenuto  
17.15 Incontro di benvenuto  
17.30 Incontro di benvenuto  
17.45 Incontro di benvenuto  
18.00 Incontro di benvenuto

**October, 2013**

ACI Italy Chapter, Bergamo, September 16, 2014

**October, 2013** **SAIE Expo, BOLOGNA**  
October 17 - Piazza FEDERBETON

- Presentazione delle principali attività dell' American Concrete Institute – Italy Chapter (ACI-IC) in tema di formazione scientifica e divulgazione culturale.
- Iniziativa per la divulgazione delle ricerche svolte dai giovani neodottori di ricerca nel settore del calcestruzzo, inteso sia come tematica di ingegneria dei materiali dell'ingegneria strutturale. Professore **Pietro Gambarova** (Politecnico di Milano)
- Attività di divulgazione ACI-IC in tema di "BETTER BUILDING" (contro l'accettazione, etc.) (Università Politecnica delle Marche)

**BETTER BUILDING**

**October, 2013**

ACI Italy Chapter, Bergamo, September 16, 2014

## 2014

**March** **ACI Spring 2014 Convention Reno**  
✓ **International Luncheon – Keynote Lecture: "Making Our Structures Last Longer"**  
Gordon Clark, President of fib International Federation for Structural Concrete  
Lecture promoted by Mario A. Chiorino, member of ACI International Advisory Committee and Hon. President of ACI Italy Chapter

✓ **Mario A. Chiorino, Honorary President of the Chapter, nominated ACI Honorary Member**

**May** **Concrete 2014: Glance at Future**  
**Moscow, Russian Academy of Sciences, with patronage of RILEM and fib**  
**Mario A. Chiorino, Invited lecture:**  
"Analysis of structural effects of time-dependent behaviour of concrete: an internationally harmonized format"  
presenting the harmonized documents edited by the author:  
• ACI Guide 209.3R Analysis of Creep and Shrinkage Effects in Concrete Structures  
• Section 7.2.4

ACI Italy Chapter, Bergamo, September 16, 2014

2014

September President Bill Rushing and Executive Vice President Ron Burg visit the Chapter

i.lab - Research and Innovation Centre of Italcementi, Bergamo, September 16

October - Workshop: "New techniques for seismic retrofitting of precast buildings"

SAIE Expo, Bologna Chair: Paolo Riva

- ACI Italy Chapter-Federbeton PhD Thesis AWARD (1st Edition) to the best PhD Theses in the field of concrete  
Chairman of the Award Committee: Pietro Gambarova



ACI Italy Chapter, Bergamo, September 16, 2014



March 2014

ACI Spring 2014 Convention Reno

International Luncheon - Keynote Lecture:  
"Making Our Structures Last Longer"

Gordon Clark, President of fib International Federation for Structural Concrete  
Lecture promoted by Mario A. Chiorino, member of ACI International Advisory Committee and Hon. President of ACI Italy Chapter



2014

ACI Italy Chapter - Italcementi, Bergamo, September 16, 2014



March 2014

ACI Spring 2014 Convention Reno

International Luncheon - Keynote Lecture:

"Making Our Structures Last Longer"

Gordon Clark, President of fib International Federation for Structural Concrete  
Lecture promoted by Mario A. Chiorino, member of ACI International Advisory Committee and Hon. President of ACI Italy Chapter



From left to right: ACI Vice President Mike Schneider, fib Immediate Past President György L. Balázs, Chair of ACI IAC Kari Yuen, ACI Vice President William Rushing, ACI President Anne Ellis, H. S. Lev, fib President Gordon Clark, ACI Vice President Sharon Wood, ACI Past President James Wight, fib member and ACI Honorary Member Mario Chiorino, ACI Executive Vice President Ronald Burg



2014

ACI Italy Chapter - Italcementi, Bergamo, September 16, 2014



March 2014

ACI Spring 2014 Convention Reno

Mario A. Chiorino, Honorary President of the Chapter, nominated ACI Honorary Member



Anne Ellis and Mario Chiorino



2014

ACI Italy Chapter - Italcementi, Bergamo, September 16, 2014



May 2014

Concrete 2014: Glance at Future

Moscow, Russian Academy of Sciences, with patronage of RILEM and fib

Mario A. Chiorino, invited lecture: "Analysis of structural effects of time-dependent behaviour of concrete: an internationally harmonized format", presenting the harmonized documents edited by the author:

- ACI Guide 209.3R Analysis of Creep and Shrinkage Effects in Concrete Structures
- Section 7.2.4



2014

ACI Italy Chapter - Italcementi, Bergamo, September 16, 2014



ACI Italy Chapter approved as ACI Sponsoring Group

Supervisors of the SG: A. Grimaldi, G. Marchese, G. Moriconi

Da: John K Conn [mailto:John.Conn@concrete.org]

Inviato: mercoledì 16 luglio 2014 11:20

A: ACI Italy Chapter

Cc: Antwanisha J Hamilton

Oggetto: Re: R: R: R: ACI Certification in Italy

Mirianna,

I am pleased to announce that the Italy Chapter has met the requirements of our Sponsoring Group (SG) policy and is now approved to conduct the ACI Concrete Field Testing Technician - Grade I and ACI Concrete Construction Special Inspector certification programs.  
Your SG Number is 01296707

Thank you for your efforts in helping ACI Certification meet the growing need for well trained and knowledgeable technicians and inspectors. If you have any questions or if there are any changes within your sponsoring group, please contact me at [john.conn@concrete.org](mailto:john.conn@concrete.org).  
Regards,  
John

John K. Conn  
Manager, Certification Operations & Chapter Activities  
p +1.248.848.3718

July, 2014



ACI Italy Chapter, Bergamo, September 16, 2014



## ACTIVITIES of ITALIAN MEMBERS in ACI Committees

Members of the Italian technical and scientific community and of ACI Italy Chapter have served in the following ACI Technical Committees:

- Committee 209 - Creep and Shrinkage in Concrete
- Committee 236 - Material Science of Concrete
- Committee 237 - Self-Consolidating Concrete
- Committee 238 - Workability of Fresh Concrete
- Committee 342 - Evaluation of Concrete Bridges and Bridge Elements
- Committee 374 - Performance-Based Seismic Design of Concrete Buildings
- Committee 423 - Prestressed Concrete - Joint ACI-ASCE
- Committee 437 - Strength Evaluation of Existing Concrete Structures
- Committee 440 - FRP Reinforcement
- Committee 444 - Experimental Analysis for Concrete Structures
- Committee 446 - Mechanics of Concrete
- Committee 447 - FEM Analysis of Reinforced Concrete Structures - Joint ACI-ASCE
- Committee 530 - Masonry Standards Joint Committee - Joint ACI-ASCE-ASTM
- Committee 544 - Fiber Reinforced Concrete
- Committee 549 - Thin Reinforced Cementitious Products and Reinforcement

They have contributed with technical and research information to the development of committee activities. In a few cases they have carried chair or editing responsibilities, with particular regard to the fields of *Analysis of Creep and Shrinkage Effects in Concrete Structures (ACI 209, M. A. Chiorino)*, *Strength Evaluation of Existing Structures (ACI 437, A. Nanni)*, *FRP Reinforcement (ACI 440, A. Nanni, A. Prota)*.

Members of ACI Italy Chapter participate also in the activities of some of ACI Standing Board Committees, like *IC (International Advisory Committee)* and *ICC (International Conferences/Conventions Committee, Committee on Awards for Papers)* (M. A. Chiorino), *TAC (Technical Activities Committee)* (A. Nanni).



ACI Italy Chapter | Italcementi, Bergamo, September 16, 2014



## CONCLUSIONS

- ✓ ACI Italy Chapter is a new-born chapter: it has been created in a country and with people of longstanding traditions of international cooperation in the field of structural concrete.
- ✓ The feeling of the initiating group was that in the development of a mature science for concrete construction, at worldwide level, there is still a need for more intense contacts among specialists to achieve a deeper harmonization.
- ✓ ACI Italy Chapter's mission has been consequently defined as follows:
  1. disseminate knowledge and information originating from ACI scientific, technical and regulatory activities,
  2. foster deeper collaboration and exchanges between the Italian community of scholars and the ACI ambient,
  3. favor the dialogue and promote harmonization and exchange of experiences between ACI and other *standard* and *pre-standard* international organizations, like e.g. CEN (Eurocodes), *fib* and RILEM, in consideration of the traditional well-established links between large sectors of the Italian community of scholars and these organizations.
- ✓ The Chapter believes that these goals have been at least partially achieved in this first period of its life.
- ✓ The Chapter intends to concentrate its future activity in developing item 1, and in promoting a more extended active participation of its expert members in the activities of ACI Technical Committees and in the life of the Institute, in the frame of item 2.



ACI Italy Chapter | Italcementi, Bergamo, September 16, 2014





ACI Fall 2014 Convention  
October 29-31, 2014  
After Washington • Washington, D.C.

INTERNATIONAL WORKSHOP ON  
**"Durability and Sustainability  
of Concrete Structures "**

DICAM, University of Bologna, Italy  
October 1-3, 2015

Co-sponsored by 





**General Information**

**Venue:** Department of Civil, Chemical, Environmental and Materials Engineering of the University of Bologna (DICAM), Bologna, Italy (<http://www.eng.dicam.unibo.it/>)

**Hosted by:** ACI Italy Chapter & Department of Civil, Chemical, Environmental and Materials Engineering of the University of Bologna (DICAM)

**Organized by:** ACI Italy Chapter & DICAM



**BOLOGNA – THE PORTICO’S CITY**






**BOLOGNA – THE PORTICO’S CITY**





**UNIVERSITY of BOLOGNA**


the oldest University in the world !






**NUMBER OF ENROLLED STUDENTS**  
A.Y. 2012/2013

<b>TOTAL</b>		<b>86,014</b>	
<b>FEMALES</b>	<b>MALES</b>		
56.3%	43.7%		
<b>ITALIAN</b>	<b>INTERNATIONAL</b>		
92.9%	7.1%		
<b>BOLOGNA</b>	<b>CAMPUSES</b>		
75.8%	24.2%		



## Workshop format and Committees

The two-day workshop will adopt a plenary presentation format divided in several sessions

The oral presentations will be mixed with periods for discussion between participants and speakers

A poster session (or more) will be organized depending on the number of submissions

**Organizing Committee (in progress):** an ACI Delegate, Luigi Coppola (University of Bergamo, Italy), Roberto Realfonzo (ACI Italy Chapter President, University of Salerno), Marco Savoia (DICAM, University of Bologna)

**International Scientific Committee: (in progress)**

**Honor Committee (in progress):** Mario A. Chiorino, Mario Collepari

## Preliminary Call for Paper

### Submission of abstracts

Abstracts should be submitted at [acitalychapter@gmail.com](mailto:acitalychapter@gmail.com)

Deadline for submission of abstracts: **31 December 2014**

### Full paper

A full paper can be submitted until **March 31, 2015**

Selected papers will be presented orally or by poster

All accepted papers will be published in the Workshop Proceedings

### Important dates

Abstract submission	December 31, 2014
Abstract acceptance	January 31, 2015
Paper submission	March 31, 2015
Paper reviewed and returned to the Authors	May 15, 2015
Papers submitted with corrections for final review	June 30, 2015

## Social Programs and Costs

### Social programs

**Conference Dinner: October 2, 2015**

**Visit to the Expo'15 in Milan: October 3, 2015**

**Registration costs** (Non-refundable fees, do not include the visit to the Expo'15)

**Full delegate** (includes participation, proceedings, lunches, coffee-breaks, conference dinner)

until May 15, 2015 : 300,00 euro

after May 15, 2015 : 400,00 euro

**Accompanying persons** (includes lunches, coffee-breaks, conference dinner)

until May 15, 2015 : 200,00 euro

after May 15, 2015 : 300,00 euro

## Expo'15: Feeding the Planet, Energy for Life



*Situated in the heart of Milan, Expo Gate introduces the public to Expo Milano 2015 and forms a bridge between the city and the Exhibition Site. From May 2014, Expo Gate is the stage on which Milan interprets the central theme of Expo Milano 2015: Feeding the Planet, Energy for Life. Open to residents and visitors, it offers a light and airy place to meet, learn and share ideas.*

<http://www.expo2015.org/en/index.html>