

## Registration fee

The registration costs include a copy of the proceedings, lunches, refreshments at breaks, and banquet dinner for the full registrants.

Student registration and one-day registration do not include the banquet dinner.

## Registration type

Registration: 550 €

Early registration (payment due on 15/05/2018): 450 €

Student registration (payment due on 15/05/2018): 300 €

One-day registration (payment due on 15/06/2018): 300 €

Banquet Dinner (only where applicable): 80 €

Note that any bank transfer fee (not applicable for PayPal payment) should be in charge to the participant

## Contacts

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## Venue

On the southern banks of the Lake Garda, Desenzano is a charming village and a popular summer resort. An excellent point for trips and excursions, Desenzano presents a noteworthy artistic, historic and archaeological heritage, starting from the Roman era. The core of the city develops around Malvezzi Square and the Ancient Harbour, with the XXVI century palaces by Todeschini, a famous local architect. The archaeological area with the ruins of a magnificent IV century Roman Villa having impressive multi-coloured and mosaic flooring, the Museum of archaeology, with one of the most ancient ploughs of the world and the panoramic tower of S. Martino della Battaglia are a must-see tourist attraction. Another site of interest is also the Castle, founded in the Middle Ages and recently renovated to offer a breath-taking view of the Lake.



Desenzano has also become the Garda destination best known for its entertainment opportunities, above all its nightlife. Desenzano also offers a variety of water sports. Desenzano can be easily reached by train (it is on the high-speed train line connecting Milano, Brescia, Verona, Bologna, Venice...) and by car (on the main highway A4, exit Desenzano)

Further info at: [http://visitgarda.com/en/garda\\_lake/](http://visitgarda.com/en/garda_lake/)

Visit our website at <http://frc2018.unibs.it>



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DICATAM - Department of Civil, Environmental,  
Architectural Engineering and Mathematics

**3<sup>rd</sup> FRC International Workshop  
Fibre Reinforced Concrete:  
from Design to Structural Applications**

**ACI-fib-RILEM Joint Workshop**

<http://frc2018.unibs.it>

Second announcement

**Desenzano, Lake Garda, Italy**

**June 28-30, 2018**



With the support of



## Aim and scope

After more than fifty years of research dedicated to the unique material properties, the last two decades have focused on introducing Fiber Reinforced Concrete (FRC) to several building codes as a structural material; this has allowed an increasing use of this material among practitioners. FRC is now widely used in tunnel linings, elevated slabs, precast elements and other structures, and used as the primary reinforcement, or in a hybrid manner with additional rebars or welded mesh in many cases.

FRC with enhanced mechanical properties has also demonstrated to be a suitable solution for strengthening existing structures, thus extending the service life of structures.

Fourteen years after the workshop held in Bergamo (Italy), and four years after the second workshop in Montreal (Canada), the aim of this workshop is to provide the State-of-the-Art on the recent worldwide developments in structural applications of FRC.

Presentations of case studies will focus both on structural design and on the description of applications such as beams, elevated floors, tunnel linings, slabs, precast elements, bridges and other applications. Special attention will be also devoted to the developments of structural codes as well as to durability of FRC structures by considering the significant reduction of crack opening provided by fiber reinforcement.

This workshop will attempt to bring various sectors of research community and industry together so that significant cross-fertilization of ideas can occur, new concepts can be developed and new structural applications of FRC explored.

## Call for papers: Important dates

Abstract submission: by **November 15<sup>th</sup>, 2017**

Abstract acceptance: by **November 25<sup>th</sup>, 2017**

Paper submission: by **February 28<sup>th</sup>, 2018**

Papers reviewed and returned to the authors, notification of acceptance: **April 30<sup>th</sup>, 2018**

Final papers submitted for final review: by **May 15<sup>th</sup>, 2018**

## Main topics

### Design specifications for structural applications:

- *fib* Model Code 2010
- International Recommendations
- International Codes and Standards

### Structural applications:

- Buildings (elevated slabs...)
- Bridges and Footbridges
- Precast construction
- Seismic design

### Special structures

- Hydroelectric power plants,
- Nuclear containment buildings,
- Harbor construction

### Durability and life cycle assessment

### Retrofitting and strengthening of existing structures

### Foundation and underground applications:

- Tunnel linings
- Structures on ground

### Other design considerations

- Nonstructural element design
- Design for fire resistance

## Publications

Papers will be peer reviewed. Proceedings will be published jointly by ACI in the form of SP publication in CD format and also as *fib* bulletin in print. Accepted papers will be covered by main indexed databases (Scopus & others)

## Organizing Committees

### Conference Chairmen

Prof. Bruno Massicotte (Polytechnique Montreal, Canada)

Prof. Fausto Minelli (University of Brescia, Italy)

Prof. Barzin Mobasher (Arizona State University, USA)

Prof. Giovanni Plizzari (University of Brescia, Italy)

### Chairmen Local Organizing Committee

Prof. Fausto Minelli - Prof. Giovanni Plizzari

## Workshop format

The two-day workshop will be probably divided in four main sessions. The formal presentations will be mixed with time for discussion between participants and speakers.

## Preliminary Program

### Wednesday June 27, 2018

19.00 Ice breaking party

### Thursday June 28, 2018

08.45 Opening Ceremony

#### SESSION I:

9.00-12.30 (coffee break 10.30)

13.00 Lunch

#### SESSION II:

14.30-18.30 (coffee break at 16.30)

### Friday June 29, 2018

#### SESSION III:

9.00-12.30 (coffee break 10.30)

13.00 Lunch

#### SESSION IV:

14.30-18.30 (coffee break at 16.30)

18.30 Conclusions and Closing Ceremony

20.00 Banquet dinner

### Saturday June 30, 2018

9.00-12.30:

Visit/social program