

REGISTRATION

Please register **before September 20, 2010**.

€ 200,00 Full registration, which includes welcome drink, 3 coffee breaks, 2 lunches and the dinner on Friday night.

REGISTRATION FORM

Title: Dr. /Mr. /Mrs. /Miss /Prof. /Other*

*Delete as appropriate

Family Name:

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First name or initials:

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Organization:

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Address:

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Postal code:

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Country:

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Tel and Fax:

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E-mail:

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INFO

SHEAR WORKSHOP 2010

Prof. Giovanni Plizzari

Dr. Minelli Fausto

DICATA

43, Via Branze

IT-25123 Brescia

Italy

E-mail: shearworkshop2010@unibs.it

PAYMENT DETAILS

International Bank Transfer:

Account Holder: **Collegio dei Tecnici della Industrializzazione Edilizia, Milano, ITALY**

IBAN: **IT49N030690160410000005511**

SWIFT CODE: **BCITITMM**

Bank: **INTESA SANPAOLO SPA, Viale Piceno, 2, MILANO.**

Please send a proof of payment to one of the following addresses:

- Fax number +39 030 3711 312 (please clearly indicate in the first page "to Fausto Minelli").

- E-mail: shearworkshop2010@unibs.it

Confirmation letter will be sent to you by e-mail upon receipt of your registration form and payment.

VENUE

The Symposium will be held in the City Hall Building of Salò, Lake Garda (Brescia). Salò was the capital of the Magnifica Patria during the period of Venetian domination. Traces of its prestigious past can be seen along the main street in the elegant historic center full of buildings with great historical and artistic value, and also with many boutiques and stores.

Salò is very proud of its Palazzo of the Magnifica Patria, built in 1524 by Sansovino and rebuilt after the 1901 earthquake, and of its Late Gothic Cathedral, which was built in the 15th century and which now houses several important works of art.

Salò experienced in November 2004 a 5.3 magnitude seismic event, with relevant damages in ancient buildings, churches above all.



Visit our website at

<http://dicata.ing.unibs.it/shearworkshop2010>



UNIVERSITY OF BRESCIA
DICATA - Department of Civil, Architectural,
Environmental and
Land Planning Engineering

WORKSHOP ON

RECENT DEVELOPMENTS ON SHEAR AND PUNCHING SHEAR IN RC AND FRC ELEMENTS

Salò, Lake Garda, Italy

October 15-16, 2010



With the support of:


COLLEGIO DEI TECNICI DELLA
INDUSTRIALIZZAZIONE EDILIZIA



Municipality of Salò
Brescia-Italy

INTRODUCTION AND SCOPE

A significant change in the shear and punching shear provisions, included in the Model Code 2010 proposal, which have been officially presented during the Fib Congress in Washington D.C., can be outlined.

Four different approximation levels are proposed for designing shear members, incorporating statements and models well recognized such as MCFT and the variable truss angle theory.

As this document is going to be under public enquiry for one year, there is an urgent need to discuss the new approaches and how they meet or diverge one to each other. Moreover, it is of paramount importance to establish and foresee the implications that the new models may determine in the field and in structural design and applications.

The University of Brescia, is happy to organize and host a 2 day workshop on shear and punching shear, which will be characterized by a limited number of oral invited presentations of about 30 minutes with sufficient time for discussion. A limited number of comprehensive presentations will help the discussion and an in-depth understanding of the new document, with possible change proposals and/or minor adjustments.

All contributions will be focused on shear in beams or slabs and should be related to the most recent advancement in the field.

The **official language** is **English**

TIMETABLE

September 30, 2010 submission of manuscripts

Submitted papers will be distributed to all participants in the workshop. After the revision process, proceedings will be then published in a *fib* Bulletin and sent to all participants. In order to allow *fib* to publish the bulletin by the end of the year, **please submit your paper in time!**

PROGRAM

Friday October 15, 2010

08.45 Opening Ceremony. Welcome from *fib* Presidency
G. Balázs

SESSION I: Overview of the MC 2010 for shear and punching shear

Chairmen: Prof. M. Collins and Prof. S. Foster

09.00 MC2010: Overview on the shear provisions
V. Sigrist

09.30 MC2010: Shear strength of beams and implications of the new approaches
E. Bentz

10.00 Determining the real shear capacity of existing bridge decks
J. Walraven

10.30 Discussion

11.15 Coffee break

11.30 Design of 2D and 3D R/C elements in presence of a combination of internal actions
G. Mancini

12.00 New provisions for punching shear in NMC 2010 based on the Critical Shear Crack Theory: the advantages of grounding codes on physical Models.
A. Muttoni and M. Fernandez Ruiz

12.30 Discussion

13.15 Lunch

SESSION II: MC 2010 and recent advancements in shear and punching shear of FRC structural members

Chairmen: Prof. G. Balázs and Prof. di Prisco

14.45 MC2010: Overview on the shear provisions for FRC
L. Vandewalle

15.15 Design of FRC Beams for Shear using the VEM and the Draft Model Code Approach
S. Foster

15.45 Shear strength of FRC members with little or no shear reinforcement
F. Minelli

16.15 Discussion

17.00 Coffee break

17.15 Effectiveness of Steel Fiber as Minimum Shear Reinforcement
F.J. Vecchio

17.45 Use of fiber reinforcement for shear resistance in beams and slab-column connections
G. Parra Montesinos

18.15 Punching shear in bridge decks
A. Grimaldi

18.45 Discussion

19.30 Closing Session

20.30 Social Dinner

Saturday October 16, 2010

SESSION III: Recent Advancements in Shear and Punching Shear of R/C structures

Chairmen: Prof. G. Mancini and Prof. J. Walraven

08.30 A Structured Approach to the Design and Analysis of Beams in Shear
V. Sigrist

09.00 Shear in one-way slabs and beams: may they be treated in the same way?
A. Muttoni

09.30 Components of Shear Resistance in Prestressed Bulb-Tee Girders
D. A. Kuchma

10.00 Discussion

10.45 Coffee break

11.00 Recent Shear Research on Improving Available Models for Shear Design and Evaluation
M. Collins

11.30 Shear Behavior of Thin-Walled P/C Beams in Fire
P. Gambarova

12.00 Discussion

12.45 Technical Conclusions
Chairmen: Prof. S. Foster and Prof. V. Sigrist

13.00 Closing Ceremony
The 2004 Earthquake in Salò: strategies for preserving, assess and restore the cultural Italian heritage
E. Giuriani

Greetings from Mayor, City of Salò
B. Botti

13.30 Lunch

15.15 Meeting of TG 4.2

17.30 Happy hour on the Lake Shore