

REGISTRATION FORM

PERSONAL DATA

Full surname: _____

Full name: _____

Birthdate: _____

Birthplace: _____

Study title: _____

Company: _____

Company address (street, number, ZIP code, town, province): _____

E-mail: _____

Phone: _____

Mobile phone: _____

Skype: _____

INVOICING DATA (invoices will be VAT exempted)

Company name: _____

or

Full name and surname: _____

Address (street, number, ZIP code, town, province) _____

VAT _____

Fiscal Code _____

I authorize the processing of my personal information under D.Lgs. 196/03.

I agree with the processing of my data for receiving information about upcoming courses and for statistical purpose.

At any time, pursuant to D. Lgs. 196/03, I will be able to access my data, request their modification or cancellation.

Signature _____

Summer School Director

Prof. Marco di Prisco

marco.diprisco@polimi.it

Ph.D. programme Coordinator

Prof. Roberto Paolucci

roberto.paolucci@polimi.it

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5 CFU will be recognized to students of PhD School of Structural, Seismic and Geotechnical Engineering

after the discussion of an assigned homework

www.dica.polimi.it/dottorato/dot-stru/

The 5 CFU are released to all the other Ph.D. students after approval by the Teachers Colleges of individual Ph.D. courses

32 CFP will be recognized to post-graduate engineers

after the passing of a multiple-choice test

For additional information, please visit

<http://www.cte-it.org/>

Department of Civil and Environmental Engineering
Ph.D. programme in Structural, Seismic and
Geotechnical Engineering

in cooperation with CTE – Collegio dei Tecnici della
Industrializzazione Edilizia, Ordine degli Ingegneri di
Lecco and *fib International Federation for Structural
Concrete*

POLITECNICO DI MILANO



SUMMER SCHOOL 2015

**Performance, Protection & Strengthening
of Structures under Extreme Loading**

Lecco Campus, 3rd-8th July, 2015



FRIDAY, 3rd JULY 2015

- 09.00 - 10.30 Introduction to structural robustness.
(Prof. Mancini)
- 10.30 - 11.00 coffee break
- 11.00 - 12.30 General framework of safety for exceptional loadings (Prof. Mancini)

Lunch

- 14:30-16:00 Blast effects (Dr. Buzaud)
- 16:00-16:30 *Coffee break*
- 16:30-18:00 Concrete material response under extreme loadings. (Dr. Buzaud)

SATURDAY, 4TH JULY 2015

- 9:00-10:30 Examples of exceptional loads combinations (Prof. Mancini)
- 10:30-11:00 *Coffee break*
- 11:00-12:30 A case study (Prof. Mancini)

SOCIAL PROGRAMME

SATURDAY, 4TH JULY 2015 – 14:00-23:00

Trip on Lake Como

SUNDAY, 5TH JULY 2015 – 9:00-19:00

Milan, visit to Expo

MONDAY, 6TH JULY 2015

- 9:00-10:30 Progressive collapse: an introduction - phenomenology, examples, modeling approaches. (Dr. Buzaud)
- 10:30-11:00 *Coffee break*
- 11:00-12:30 Predictive numerical simulation: methodology, comparison to experimental results & validation for blast diffraction & structural response against blast loading. (Dr. Buzaud)

Lunch

- 14:30-16:00 Reinforced concrete barriers for fragments and blast loads (Prof. Dancygier)
- 16:00-16:30 *Coffee break*
- 16:30-18:00 Analytical and experimental approaches (Prof. Dancygier)

TUESDAY, 7TH JULY 2015

- 9:00-10:30 HPFRC Material behaviour at high strain rates and high temperature (Prof. di Prisco)
- 10:30-11:00 *Coffee break*
- 11:00-12:30 Meso-scale testing of FRC elements under blast and fire loads (Prof. di Prisco)

Lunch

- 14:30-16:00 Impact resistance of reinforced concrete barriers (without and with steel liner) (Prof. Dancygier)
- 16:00-16:30 *Coffee break*
- 16:30-18:00 Advanced engineering solutions in RC protective structure (Prof. Dancygier)

WEDNESDAY, 8TH JULY 2015

- 9:00-10:30 Full-scale tests under blast and fire loads (Prof. di Prisco)
- 10:30-11:00 *Coffee break*
- 11:00-12:30 Design of tunnel segments taking into account exceptional loads. (Prof. di Prisco)

REGISTRATION

Only the first 30 Ph.D. students and the first 30 post-graduated engineers will be accepted.

The registration fee is 400,00 Euros per person (VAT exempted, following the Italian Law DPR 633/1972, art. 10 and subsequent amendments), covering course attendance and social events.

To register, please send to phdissg-dica@polimi.it (if you are a Ph.D. student) and to info@cte-it.org (if you are a post-graduated engineer)

- registration form
- copy of bank transfer

PH.D. STUDENTS – BANK TRANSFER TO

Politecnico di Milano – Dipartimento di Ingegneria Civile e Ambientale
IBAN: IT29G056960162000001740X15 - SWIFT code: POSOIT22
Banca Popolare di Sondrio, Ag. 21, Via Bonardi, Milano

POST-GRADUATED ENGINEERS – BANK TRANSFER TO

Collegio dei Tecnici della Industrializzazione Edilizia
IBAN IT06G0335901600100000113883 – SWIFT code BCITITMX
Banca Prossima (Intesa San Paolo), Piazza Paolo Ferrari, Milano

Please always specify: DICA SUMMER SCHOOL 2015+YOUR NAME AND SURNAME

**Giuseppe Mancini**

Full Professor of Structural Design at Politecnico di Torino. Member of Boarding School for PhD Students in Structural Engineering. Member of Science Academy of Turin. Honorary President of fib on the chair in 2004-2006. Chairman of CEN TC 250 SC2 (Concrete Structures since 2006 to 2014. Member of TC 250 SC2 WG1/TG6, TG9, TG10. Member of CEN TC250 WG2 (Existing Structures) and WG7 (Basis of Design). Author of about 200 scientific publications on several aspects of structural concrete.

**Eric Buzaud**

Senior scientist, Deputy Head of Division "Detonics, Mechanical and Thermal effects", Commissariat à l'Energie Atomique et Aux Energies Alternatives, Centre de Gramat.
Main research interests: dynamic behaviour of materials, shock physics, blast effects, penetration mechanics, concrete behaviour under extreme loadings, constitutive modeling of concrete, ultra high performance concrete, progressive collapse, numerical simulation of the effects of weapons. Expert at the French Ministry of Defence, Member of the governing board of the European association DYMAT, Founder member of the French research federation PREVI.1988.

**J Avraham N. Dancygier**

Associate Professor of Structural Engineering at the Faculty of Civil and Environmental Engineering and Head of the Structural Engineering Department, National Building Research Institute at the Technion – Israel Institute of Technology. He is member of ACI and ASCE and the Israeli representative to fib. Member of fib Working Group 2.7.2. "Concrete Protective Structures" and serves on the editorial board of the International Journal of Protective Structures. His research interests include behavior of reinforced concrete elements, bond and anchorage, confined RC, structural behavior of fiber RC, static and dynamic behavior of high strength / high performance concrete, impact behavior and resistance of RC elements, soil-structure interaction of buried structures, and scaling issues in engineering.

**Marco di Prisco**

Full Professor of Structural Design at the Department of Civil and Environmental Engineering at Politecnico di Milano. Main research interests: constitutive modeling of plain and fibre reinforced concrete, fracture mechanics, composite materials, theoretical and experimental analysis on reinforcement-concrete interaction basic mechanisms, r/c and p/c structural elements, prefabricated structures, structural response at exceptional loads, tunnel safety. Honorary Editor of the European Journal of Environmental and Civil Engineering, Associate editor of the J. of Cement and Concrete Composites, member of ACI, RILEM He is member of the fib presidium, coauthor of the MC2010 chapters on FRC and convener of the Commission TC250/SC2/Wg1/Tg2 to introduce FRC in EC2.