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

**REGISTRATION FORM**

**in collaboration with CTE – Collegio dei Tecnici della Industrializzazione Edilizia, FIB – International Federation for Structural Concrete**

**PERSONAL DATA Summer School Director**

Full surname:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **Prof. Marco di Prisco**

Full name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ marco.diprisco@polimi.it

Birthdate:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **Ph.D. Programme Coordinator**

Birthplace:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **Prof. Stefano Mariani**

Study title:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ stefano.mariani@polimi.it

Company:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Company address (street, number, ZIP code, town, **Secretary for post-graduated engineers**

province):\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Mrs. Anna Magri **SUMMER SCHOOL 2023**

E-mail:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ CTE – Collegio dei Tecnici della Industrializzazione Edilizia ***Textile reinforced concrete: material*** Phone:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Via G. Zanella, 36 – 20133 Milano ***design and structural behaviour***

Mobile phone:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Phone: +39 02 36558834 - Mobile: +39 347 2235773 **Lecco Campus, June 30th- July 5th,**

Skype:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ E-mail: [info@cte-it.org](mailto:info@cte-it.org)

**INVOICING DATA (invoices will be VAT exempted)**

Company name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **Secretary for Ph.D. students**

orDr. Emanuela Zonca

Name and surname:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Department of Civil and Environmental Engineering

Address: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Phone: +39 02 23994322

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Fiscal Code: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ E-mail: [phdissg-dica@polimi.it](mailto:emanuela.zonca@polimi.it)

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**For additional information, please visit:**

**http://www.cte-it.org/**

# SUMMER SCHOOL PROGRAMME

# FRIDAY, 30th JUNE 2023

# 09:00 -10:30 Cement based materials properties

# 

# 10:30 -11:00 *Coffee break*

# 11:00 -12:30 FRCM critical issues

# *Lunch*

# 14:30 -16:00 Textile composites: mechanical parameter identification

# 16:00 -16:30 *Coffee break*

# 16:30 -18:00 Durability of the material

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# SATURDAY, 1st JULY 2023

# 09:00 -10:30 Textile material: mortar/fabric interaction

# 10:30 -11:00 *Coffee break*

# 11:00 -12:30 Textile material: impact behavior

# 

# SOCIAL PROGRAMME

# SATURDAY, 1st JULY 2023 – 14:00-23:00

# Visit to Lake Como Villas

# SUNDAY, 2nd JULY 2023 – 9:00-15:00

# Trip to Grigna Mountains

# MONDAY, 3 rd JULY 2023

# 09:00 -10:30 FRCM: tests for Italian certification

# 

# 10:30 -11:00 *Coffee break*

# 11:00 -12:30 FRCM Italian Design Guidelines

# *Lunch*

# 14:30 -16:00 Main design parameters for the material selection

# 16:00 -16:30 *Coffee break*

# 16:30 -18:00 High temperature behaviour of TRC

# 

# SUMMER SCHOOL PROGRAMME

# TUESDAY, 3th JULY 2023

# 09:00 -10:30 Multilayer structures for Industrial building retrofitting

# 10:30 -11:00 *Coffee break*

# 11:00 -12:30 Example of light TRC structures for energy retrofitting

# *Lunch*

# 14:30 -16:00 TRM vs. FRP

# 16:00 -16:30 *Coffee break*

# 16:30 -18:00 Strengthening and seismic retrofitting of RC structures with textile composites: behavior and design

# *\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*

# WEDNESDAY, 4th JULY 2023

# 09:00 -10:30 Strengthening and seismic retrofitting of masonry structures with textile composites: behavior and design

# 10:30 -11:00 *Coffee break*

# 11:00 -12:30 Strengthening and seismic retrofitting od Concrete structures: examples and case studies

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# REGISTRATION

# 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](mailto:emanuela.zonca@polimi.it) (if you are a Ph.D. student) and to [info@cte-it.org](mailto:info@cte-it.org) (if you are a post-graduated engineer)

# registration form

# copy of bank transfer

# Only for Politecnico di Milano PhD students the registration fee will be free.

# PH.D. STUDENTS – BANK TRANSFER TO:

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# IBAN IT06G0335901600100000113883 – SWIFT code BCITITMX

# Banca Prossima (Intesa San Paolo), Piazza Paolo Ferrari, Milano

# Please always write: DICA SUMMER SCHOOL 2016 + YOUR NAME AND SURNAME

# SUMMER SCHOOL LECTURERS

http://ssebe.engineering.asu.edu/images/faculty/barzin-mobasher-sm.jpg**Barzin Mobasher**

Professor of Civil and Environmental Engineering,, Ira A. Fulton School of Engineering, Arizona State University.

Main research interests: Constitutive modeling of materials, fracture mechanics, non-destructive testing techniques, experimental stress analysis, biomechanics, composite materials, chemical and mechanical properties of concrete. His research deals with new and improved systems which are environmentally, and economically superior, passing through processing, characterization, modeling, and performance of structural materials. He is member of American Concrete Institute, and in particular of Committees 446 - Fracture Mechanics, Secretary, 544 - Fiber reinforced Concrete, 549 - Thin section products, 440 - Fiber reinforced plastic Reinforcement.

**Marco di Prisco**

*Full Professor of Structural Design at the Department of Civil and Environmental Engineering, 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, p/c, frc structures, prefabricated structures; structural response at exceptional loads; tunnel and bridge safety. Honorary Editor of the European Journal of Environmental and Civil Engineering, member of the editorial board of the J. of Cement and Concrete Composites, member of fib, RILEM and ACI, member of fib presidium, coauthor of the MC2010 chapters on FRC and convener of the Commission TC250/SC2/Wg1/Tg2 to introduce FRC in EC2.

**Manfred Curbach**

*Full Professor of Construction Materials and Director of the Institute of Construction Materials at the Technical University Dresden*.

**Gianmarco De Felice**

*Full Professor of Technical Construction at the Department of Engineering, Università degli Studi Roma Tre*. His research interests include: mechanics of masonry, structural analysis of monuments, evaluation of seismic safety of masonry and reinforced concrete, safety assessment of bridges, testing of historical masonry structures and reinforce technologies, interaction soil-structure, evaluation of the escavation effects on buildings.

Chairman of the Technical Committee TC-Rilem CSM, member of the Management Committee of COST Action "Next Generation Design Guidelines for Composites in Construction", the International Masonry Society and the National Association of Earthquake Engineering.

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