**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, aicap - Associazione Italiana Cemento Armato Precompresso e *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):\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Miss Ludovica De Cobelli **SUMMER SCHOOL 2023**

E-mail:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ CTE – Collegio dei Tecnici della Industrializzazione Edilizia ***Textile reinforced concrete: material*** Phone:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Viale Bianca Maria, 35 – 20122 Milano ***design and structural behaviour***

Mobile phone:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Phone: +39 327 9127660 **Lecco Campus, June 30th- July 5th**

Skype:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ E-mail: segreteria@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

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  **For additional information, please visit:**

# SUMMER SCHOOL PROGRAMME

# FRIDAY, 30th JUNE 2023

# 09:00 -10:30 Cement based materials properties (B. Mobasher)

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

# 11:00 -12:30 FRCM critical issues (C. Papanicolaou)

# *Lunch*

# 14:30 -16:00 Textile composites: mechanical parameter identification (C. Papanicolaou)

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

# 16:30 -18:00 Durability of the material (B. Mobasher)

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# SATURDAY, 1st JULY 2023

# 09:00 -10:30 Textile material: mortar/fabric interaction (B. Mobasher)

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

# 11:00 -12:30 Textile material: impact behavior (B. Mobasher)

# 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, 3rd JULY 2023

# 09:00 -10:30 FRCM: tests for certification (G. De Felice)

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

# 11:00 -12:30 FRCM Design Guidelines (G. De Felice)

# *Lunch*

# 14:30 -16:00 FRCM vs. CRM in design and certification (G. De Felice)

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

# 16:30 -18:00 High temperature behaviour of TRC (M. di Prisco)

# SUMMER SCHOOL PROGRAMME

# TUESDAY, 4th JULY 2023

# 09:00 -10:30 Multilayer structures for Industrial building retrofitting (M. di Prisco)

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

# 11:00 -12:30 Example of light TRC structures for energy retrofitting (M. di Prisco)

# *Lunch*

# 14:30 -16:00 Strengthening and seismic retrofitting of masonry structures with textile composites: behavior and design (G. De Felice)

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

# 16:30 -18:00 TRM vs. FRP (C. Papanicolaou)

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# WEDNESDAY, 5th JULY 2023

# 09:00 -10:30 Strengthening and seismic retrofitting of RC structures with textile composites: behavior and design (M. di Prisco)

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

# 11:00 -12:30 Strengthening and seismic retrofitting with textile composites: Examples and case studies (C. Papanicolaou)

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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 (if you are a Ph.D. student) and to segreteria@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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# Banca Popolare di Sondrio, Ag. 21, Via Bonardi, Milano

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# SUMMER SCHOOL LECTURERS

**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.

**Catherine (Corina) Papanicolaou**

Associate Professor & Head of the Structures Division at the Department of Civil Engineering of University of Patras.

Main research interests: experimental mechanics of structural materials (e.g. innovative or special-performance concrete and lightweight concrete) under normal environmental conditions but also under detrimental ones, such as fire; mechanical behavior of inorganic matrix composites, with special emphasis on strengthening/rehabilitation applications and prefabrication; optimum design of advanced prefabrication systems. She is a member of International (Rilem, ACI) and Greek Scientific Committees and Associations and the co-Chair of Rilem TC IMC “Durability of Inorganic Matrix Composites used for Strengthening of Masonry Constructions”.

**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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