

REGISTRATION FORM

PERSONAL DATA

Family name: _____

Full name: _____

Birth date: _____

Birth place: _____

Study title: _____

Company: _____

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

E-mail: _____

Phone: _____

Mobilephone: _____

Skype: _____

INVOICING DATA (invoices will be VAT exempted)

Company name: _____

or

Name and surname: _____

Address: _____

VAT: _____

Fiscal Code: _____

I authorize my personal data to be processed according to D.Lgs. 196/03.

I agree my personal data being processed to receive information about upcoming courses and for statistical purposes.

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

Signature _____

Summer School Director

Prof. Marco di Prisco

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5 CFU will be recognized to students of the Ph.D. programme in Structural, Seismic and Geotechnical Engineering (Politecnico di Milano).

CFU recognition for other Ph.D. students is committed to the Academic Board of the Ph.D. course they belong to.

CFP will be recognized to post-graduated Engineers if a multiple choice test will be passed.

For additional information, please visit: <http://www.cte-it.org/>

Ph.D. Programme in Structural, Seismic and Geotechnical Engineering



**POLITECNICO
MILANO 1863**

DIPARTIMENTO DI
INGEGNERIA CIVILE E AMBIENTALE

In collaboration with



Collegio dei Tecnici della Industrializzazione Edilizia
Associazione Italiana Calcestruzzo Armato e Precompresso



International Federation National for Structural Concrete

SUMMER SCHOOL 2024

***Fibre reinforced concrete.
Material characterization and
structure design.***

**Lecco Campus, July 5th – 10th 2024
room B0.2**



SUMMER SCHOOL PROGRAMME

FRIDAY, 5th JULY 2024

9:00 -10:30 Fibre reinforced concrete materials: introduction

(Prof. Vandewalle)

10:30 -11:00 *Coffee break*

11:00 -12:30 Fibre reinforced concrete properties at fresh and hardened states

(Prof. Ozyurt)

Lunch

14:30 -16:00 Mechanical characterization and classification of fibre reinforced materials (Prof. Vandewalle)

16:00 -16:30 *Coffee break*

16:30 -18:00 Constitutive models for design (Prof. di Prisco)

SATURDAY, 6th JULY 2024

9:00 -10:30 Creep and shrinkage

(Prof. Vrijdaghs)

10:30 -11:00 *Coffee break*

11:00 -12:30 Properties of Ultra-High Performance concrete and their characterization (Prof. Ozyurt)

SOCIAL PROGRAMME TO BE DEFINED

SATURDAY 7th

JULY 2024 – 14:00-23:00

MONDAY, 8th JULY 2024

9:00 -10:30 FRC as a sustainable material

(Prof. Ozyurt)

10:30 -11:00 *Coffee break*

11:00 -12:30 Numerical analysis and predictive models (Prof. Vrijdaghs)

Lunch

14:30 -16:00 Structure design approach according to Eurocode 2 (Prof. di Prisco)

16:00 -16:30 *Coffee break*

16:30 -18:00 Conceptual design approach for FRC structures (Prof. Plizzari)

SUMMER SCHOOL PROGRAMME

TUESDAY, 9th JULY 2024

9:00 -10:30 UHPFRC for retrofitting and architectural design (Prof. di Prisco)

10:30 -11:00 *Coffee break*

11:00 -12:30 Design rules for FRC structural elements at SLS and ULS (Prof. Plizzari)

Lunch

14:30 -16:00 Structural design of new FRC elements (Prof. Plizzari)

16:00 -16:30 *Coffee break*

16:30 -18:00 FRC for structural rehabilitation of existing constructions (Prof. Plizzari)

WEDNESDAY, 10th JULY 2024

9:00 -10:30 Methods for Fibre Dispersion Monitoring (Prof. Ozyurt)

10:30 -11:00 *Coffee break*

11:00 -12:30 Design of FRC in Italy (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

PHD STUDENT

To register, please send to phdissg-dica@polimi.it

- registration form
- copy of bank transfer

Politecnico di Milano – Dipartimento di Ingegneria Civile e Ambientale

IBAN: IT29G0569601620000001740X15 - SWIFT code: POSOIT22

Banca Popolare di Sondrio, Agenzia 21, Via Bonardi, Milano.

POST GRADUATED ENGINEERING

To register, please send to segreteria@cte-it.org

- registration form
- copy of bank transfer

Intesa Sanpaolo

IBAN IT59C0306909606100000113883 BIC SWIFT: BC IT IT MM

SUMMER SCHOOL LECTURERS



Marco di Prisco is professor of Structural Design at the Department of Civil and Environmental Engineering at Politecnico di Milano. Its main research interests are: constitutive models of advanced cement-based materials, reinforcement-concrete interaction mechanisms, sustainable design of new and existing r/c and p/c structural elements, prefabricated structures, structural response at exceptional loads. Series Editor of Lecture Notes and Tracts in Civil Engineering for Springer, Presidium member of fib, RILEM and fib fellow, Coordinator of the Committee for MC2020 chapters on FRC and of the Commission TC250/SC2/Wg1/TG2 to introduce FRC in EC2, he is coordinating the fib TG 4.1 on FRC.



Nilüfer Özyurt Zihnioglu is a Professor of Construction Materials in the Civil Engineering Department of Bogazici University, Istanbul, Turkey. Dr. Özyurt has been serving as the Director of the Construction Materials Laboratory of the Civil Engineering Department for more than 15 years. Her research interests include fiber-reinforced cement-based composites (FRCCs), fiber dispersion monitoring, microstructure/durability of seawater-mixed FRCCs and concrete at elevated temperatures. She has authored and co-authored many research papers on fiber-reinforced cement-based composites with more than 2000 citations and also serves for different technical committees of FIB and RILEM for the production of FRCCs with increased sustainability.



Giovanni Plizzari is professor of Structural Engineering at the DICATAM Department of the University of Brescia. During the last 25 years, his research activity has mainly concerned the structural applications of fiber-reinforced concrete (FRC); he was co-organizer of several conferences. He is fellow of the American Concrete Institute (ACI), of the International Association of Fracture Mechanics of Concrete and Concrete Structures (FraMCoS), of the International Association of structural concrete (fib) and of The International Union of Laboratories and Experts in Construction Materials, Systems and Structures (RILEM). Prof. Plizzari is currently Editor in Chief of the international Journal Materials and Structures.



Lucie Vandewalle is Professor in the Division Materials and Constructions at the Department of Civil Engineering of the KU Leuven, Belgium. Her main research topics are: fibre reinforced concrete, self compacting concrete, creep and shrinkage of concrete, shear capacity of reinforced and prestressed concrete members. She is member of ACI, RILEM and FIB. She was convenor of RILEM TC162-TDF "Test and Design Methods for Steel Fibre Reinforced Concrete" between 1995 and 2003, of FIB TG4.1 "Fibre Concrete" between 2003 and 2023 respectively. She received 5 international awards (Robert l'Hermite Médaille, Fernand de Waele-prize, IABSE-prize, Magnel prize and Fib Medal of Merit).



Rutger Vrijdaghs is a professor in the Materials and Construction division at the Department of Civil Engineering of the KU Leuven in Belgium. His research involves experimental and numerical work on the long-term behavior of cracked (fiber) reinforced concrete, specifically focusing on the (uniaxial) tensile creep behavior and fatigue performance. An expert in numerical modelling of concrete, he has worked on the numerical prediction of the structural behavior and reliability of fiber reinforced concrete, reinforced and prestressed concrete. He is a member of fib and has contributed to various working groups within fib and RILEM.