REGISTRATION FORM

PERSONAL DATA Full surname: Full name: Birthdate: Birthplace: Study title: Company address (street, number, ZIP code, town, province):_____ Phone: _____ Mobile phone: INVOICING DATA (invoices will be VAT exempted) Company name: Name and surname:____ Address: VAT: _____ Fiscal Code: I authorize my personal data to be processed according to D.Lgs. I agree my personal data being processed to receive information about upcoming courses and for statisticalpurposes. Pursuant to D. Lgs. 196/03 I will be able to access my data, request their modification or cancellation at any time. Signature

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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.

32 CFP will be recognized to post-graduate engineers after passing a multiple-choice test.

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

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



In collaboration with







SUMMER SCHOOL 2017

Fibre reinforced concrete (FRC)
Material Characterization and
Structure Design

Lecco Campus,7th – 12th July 2017 room B 0.2



SUMMER SCHOOL PROGRAMME

SUMMER SCHOOL PROGRAMME

SUMMER SCHOOL LECTURERS

FRIDAY, 7TH JULY 2017

9:00-10:30 Fibre reinforced concrete materials: introduction (**Prof. di Prisco**)

10:30-11:00 Coffee break

11:00-12:30 Fibre reinforced concrete properties at fresh and hardened states (**Prof. Sernà**)

Lunch

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

16:00-16:30 Coffee break

16:30-18:00 Constitutive models for design

(Prof. di Prisco)

SATURDAY, 8TH JULY 2017

9:00-10:30 Creep of FRC (Prof. Sernà)

10:30-11:00 Coffee break

11:00-12:30 Fibre reinforced shotcrete and UHPFRC for architectural design (**Prof. Sernà**)

SOCIAL PROGRAMME TO BE DEFINED SATURDAY 8TH JULY 2017 – 14:00-23:00 SUNDAY, 9TH JULY 2017 – 9:00-19:00

MONDAY, 10TH JULY 2017

9:00-10:30 Structure design approach according to Model Code 2010 (**Prof. di Prisco**)

10:30-11:00 Coffee break

11:00-12:30 Case studies: reliability of predictive models (**Prof. di Prisco**)

Lunch

14:30-16:00 FRC made with natural fibres

(Prof. Toledo Filho)

16:00-16:30 Coffee break

16:30-18:00 Structural applications and sustainability of FRC with natural fibres (**Prof. Toledo Filho**)

TUESDAY, 11TH JULY 2017

9:00-10:30 Properties of Ultra High Performance concrete and their characterization (**Prof. Toutlemonde**)

10:30-11:00 Coffee break

11:00-12:30 Modeling and reliability (**Prof.Toutlemonde**)

Lunch

14:30-16:00 SFRC advantages in design of structural elements with SFRC for dam construction (**Prof. Toledo Filho**)

16:00-16:30 Coffee break

16:30-18:00 Use of fibre reinforced concrete in well cementing and high temperature refractory applications (**Prof. Toledo Filho**)

WEDNESDAY, 12THJULY 2017

9:00-10:30 Design of advanced architecture (**Prof. Toutlemonde**)

10:30-11:00 Coffee break

11:00-12:30 Examples of applications

(Prof. Toutlemonde)

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 (for post-graduate engineer)

- registration form
- copy of bank transfer

PH.D. STUDENTS - BANK TRANSFER TO

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Please always write: FRC DICA SUMMER SCHOOL 2017+YOUR

NAME AND SURNAME



François Toutlemonde is Research Director, Chief Scientist at the Materials and Structures Department of IFSTTAR, the French Public Works Research Institute, where he has been working since 1990. His research interests include shock resistance of concrete structures, durability issues of concrete structures, including Alkali-silica reaction and structural applications of high performance concrete, fiber-reinforced concrete and ultra-high performance

fiber-reinforced concrete. Expert in the "Standing group of experts" for the French Nuclear Safety Authority since 2001 and French delegate in European Standardization committees related to concrete and concrete structures. Administrator of the French Association of Civil Engineering (AFGC); president of the Paris Chapter of the American Concrete Institute (ACI) since 2006.



Marco di Prisco (Politecnico di Milano). Professor of Structural Design and Precast Structures, 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

and r/c and p/c structural elements, prefabricated structures, structural response at exceptional loads. Editor in Chief of the European Journal of Environmental and Civil Engineering, Associate editor of the J. of Cement and Concrete Composites, member of ACI, RILEM and fib, Coathor of the MC2010 chapters on FRC, he is currently convener of the Commission TC250/SC2/Wq1/Tg2 to introduce FRC in EC2.



Pedro Sernà (University of Valencia - Spain) Civil engineer. Dr.at the École des ponts ParisTech Paris 1984. Full professor at the Universitat Politècnica de Valencia 1978. Director of 19 doctoral thesis. Participation in 20 competitive projects. Author of more than 60 articles in scientific journals and 70 for congresses. Research areas: special concretes technology: fiber, high and very high strength, self-compacting, recycled, self haling, mix design criteria.

and structural analysis (shear, ductility, bond).

Pioneer in structural applications FRC in Spain - Oceanographic park Shells with Spryed FRC and foodbridges in UHPFRC. Member of WG 4.1. FIB, President of the Spanish committee for FRC standards. Chairman of the Technical Committee of RILEM - CCF on Creep of FRC.



Romildo Dias Toledo Filho (COPPE /UFRJ, Rio – Brasil). D.Sc., Full Professor of the Civil Engineering Department. Researcher 1A agreed to CNPq. Ph.D. in Civil Engineering, Concrete Structures, Pontifical Catholic University of Rio de Janeiro and Imperial College of Science Technology and Medicine, London (split program), Member of the International Union of Laboratories and Experts in Construction Materials Systems

and Structures (RILEM), Member of ASCE, ACI, Brazilian Concrete Institute, Brazilian Committee for Big Dams, Brazilian Society for Non Conventional Materials and Technologies, Brazilian Society of Agricultural Engineering. Participant of RILEM TC 208-HFC, RILEM TC 260-RDS, RILEM TC 254-CMS, RILEM TC 261-CCF. Vice-Director of COPPE1/UFRJ2 2013-2015 and supervisor of 29 PhD students.