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196/03. information any time	rize the processing of my personal information under D.Lgs. I agree with the processing of my data for receiving tion about the upcoming courses and for statistical purpose At e, pursuant to D. Lgs. 196/03, I will be able to access my data, their modification or cancellation.		
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Please always write: SUMMER SCHOOL 2025 + YOUR NAME AND

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Signature:

Summer School Directors

Proff. Marco di Prisco & Matteo Colombo

marco.diprisco@polimi.it; matteo.colombo@polimi.it;

Ph.D. Programme Coordinator

Prof. Dario Coronelli

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Ludovica De Cobelli

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Email: segreteria@cte-it.org

Up to 24 CFP will be recognized to post-graduated Engineers by Lecco Board of 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





In collaboration with



Collegio dei Tecnici della Industrializzazione Edilizia



International Federation National for Structural Concrete

SUMMER SCHOOL 2025

Performance, Protection & Strengthening of Structures under Extreme Loading

Lecco Campus, July 11th – 16th 2025 room B0.3 – Edificio 10 I piano

Post – graduated engineers can attend on line on Cisco Webex or in presence



PROGRAMME

FRIDAY, 11th JULY 2025

09.00 - 10.30 HPFRC Material behaviour at high strain rates and high temperature (M. di Prisco)

10.30 - 11.00 coffee break

11.00 - 12.30 Meso-scale testing of FRC elements under blast and fire loads (M. Colombo)

Lunch

14:30-16:00 Impact resistance of Ultra-High Performance Fibre Reinforced Concrete. (M. Soutsos)

16:00-16:30 Coffee break

16:30-18:00 Fire resistance of AAB binders for fire protection of tunnel seaments (M.Soutsos)

SATURDAY, 12th JULY 2025

9:00-10:30 Optimising Ultra-High-Performance Fiber-Reinforced Concrete for Impact Resistance (D. Nicolaides)

10:30-11:00 Coffee break

11:00-12:30 Development and Validation of an Innovative Hybrid Laminate Material for Blast and Fire Protection of Structures (D. Nicolaides)

SOCIAL PROGRAMME

SATURDAY, 12 JULY 2025 – 14:00-23:00 Trip on Lake Como SUNDAY, 13 JULY 2025 – 9:00-16:00

Mountain walking

MONDAY, 14th JULY 2025

9:00-10:30	Response of materials exposed to high
	temperatures. (E. Nigro)

10:30-11:00 Coffee break

11:00-12:30 Structural behaviour under fire conditions (E. Nigro)

12.30-14.30 Lunch

14:30-16:00 Experimental field investigation of impact and blast load resistance of UHPFRC (D. Nicolaides)

16:00-16:30 Coffee break

16:30-18:00 High temperature performance of geopolymers based on construction and demolition waste (D. Nicolaides)

TUESDAY, 15th JULY 2025

9:00-10:30	Reduced scale tests under blast and fire loads: a design proposal (M. di Prisco)
10:30-11:00	Coffee break
11:00-12:30	Punching shear and flexural performance of ultra-high performance fibre reinforced concrete UHPFRC slabs (M. Soutsos)

Lunch

14:30-16:00 Design of resilient concrete structures (M. Soutsos)

16:00-16:30 Coffee break

16:30-18:00 Full-scale tests and structural analysis under fire loads (E.Nigro)

WEDNESDAY, 16th JULY 2025

9:00-10:30	Examples of fire design of concrete structures
	including the case of external FRP strengthening
	(E. Nigro)

10:30-11:00 Coffee break

11:00-12:30 Design of tunnel segments subjected to exceptional loads. (M. Colombo)

REGISTRATION

Post – graduated engineers can attend on line on Cisco Webex or in presence

For Italian Engineers

For registration send the form to the Order of Engineers:

https://lecco.ordingegneri.it/aggiornamento-professionale/eventiformativi/

For Not Italian Engineers and for all the other partecipants

For registration form to the Collegio dei Tecnici della Industrializzazione Edilizia

info@cte-it.org

The registration fee is 400,00 Euros per person (VAT included) covering course attendance and social events.

. It is also possible, to register only for some days. The registration fee is (specify the choice):

□ **€ 400,00** full course (24 hours – 24 CFP)

For any information about the registration, please contact Ordine degli Ingegneri della Provincia di Lecco to

segreteria.lecco@ordingegneri.it



Matteo Colombo

Associate Professor of Structural Analysis and Design at Politecnico di Milano. Main research interests: constitutive modelling of fibre reinforced concrete and advanced cementitious composites; lightweight structures made of advanced cementitious composites; behaviour of advanced cementitious composites in extreme condition like freezing and thawing, fire and

blast; theoretical, design and experimental analysis on structural elements in normal and extreme conditions. He is member of different National and International committees related to Textile Reinforced Concrete (fib/RILEM), design of structures in case of blast and Impact (fib/RILEM) and Fibre Reinforced Concrete (fib).



Marco di Prisco

Full Professor of Structural Analysis and Design at t 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, bridge assessment. Serial Editor of Springer Tracts in Civil Engineering, Coordinator of fib WP2.12.1 on design of structures subjected to impact and explosion. He is fib fellow and member of the Presidium, coordinator of the MC2020 chapters on FRC. He is Technical Director of DSC-ERBA design company.



Demetris Nicolaides

Associate Professor of Civil Engineering at Frederick University in Cyprus. Dr. Nicolaides' research spans within concrete technology, building materials and structural engineering. He explores the effective reuse of Construction and Demolition Wastes (CDW), aiming to enhance sustainability, development of Geopolymer

Concretes, where waste materials are repurposed to create innovative building materials, UHPFRCs, focusing on their mechanical properties, durability and applications in protecting structures against blast and impact loading and finally the realm of 3D Printing of Cementitious Materials, striving to optimize the rheological characteristics and interlayer properties for advanced construction techniques.



Marios Soutsos - Professor of Structures/Materials in Queen's University Belfast (QUB). He has had industrial experience in Cyprus, Libya, Saudi Arabia and Bahrain prior to returning to Academia. Principal research experience is in construction materials and current interests include: high strength concrete, cement replacement materials, chemical admixtures, concrete

rheology, use of recycled demolition aggregate in concrete products, repair materials, heat of hydration effects in concrete structures, as well as alkali activated binders. He is an author or co-author of nearly 200 technical publications and editor for the book entitled Concrete Durability: A Practical Guide to the Design of Durable Concrete Structures.



Emidio Nigro - Full Professor and Head of Department of Structures for Engineering and Architecture at the University of Naples Federico II. Author of three books and about 400 scientific papers on fire behaviour and analysis of steel, steel-concrete composite and RC members and and structure,s tunnels included; safety check of existing bridges; seismic vulnerability and

strengthening of masonry and RC structures;; high temperature behaviour of concrete structures reinforced or strengthened with FRP materials. Chairman of the Italian Working Group UNI/CT 021/GL01 on Structural Design in case of fire and member of the WG2 of EN1993-1-2 and EN1994-1-2 (Structural Fire Design) of CEN/TC 250/SC3 and SC4.