

REGISTRATION FORM

PERSONAL DATA

Full Surname.....
Full Name
Company
Address.....
Zip code.....
City
Email.....
Phone.....

INVOICING DATA

Company name.....
Address.....
Zip Code.....
City.....
VAT/Fiscal Code.....

I authorize the processing of my personal information under D.Lgs. 51/2018. I agree with the processing of my data for receiving information about upcoming courses and for statistical purpose. At any time, pursuant to D. Lgs. 51/2018, I will be able to access my data, request their modification or cancellation.

Signature.....

For registration send the form to the Order of Engineers:

www.ordinglc.it -> **Corsi e Convegni**

REGISTRATION FEE (VAT included)

€ 488,00 from 6th to 11 th July 32 CFP

It is also possible, to register only for some topics (specify the choice)

- € 183,00 Friday 6th July 8 CFP
- € 91,50 Saturday 7th July 4 CFP
- € 183,00 Monday 9th July 8 CFP
- € 183,00 Tuesday 10th July 8 CFP
- € 91,50 Wednesday 11th July 4 CFP

Please specify the amount €.....

Summer School Director:

Prof. Marco di Prisco
marco.diprisco@polimi.it

Ph.D. programme Coordinator

Prof. Roberto Paolucci
roberto.paolucci@polimi.it

Secretariat of Ordine degli Ingegneri della Provincia di Lecco

Via Achille Grandi 9, 23900 Lecco

Phone: +39 0341 286107

E-mail: segreteria@ordinglc.it

Secretary of CTE

Eng. Anna Magri
CTE – Collegio dei Tecnici della Industrializzazione Edilizia
Via G. Zanella, 36 – 20133 Milano
Phone: +39 02 36558834
E-mail: info@cte-it.org

Ordine degli Ingegneri della Provincia di Lecco



in cooperation with CTE – Collegio dei Tecnici della Industrializzazione Edilizia

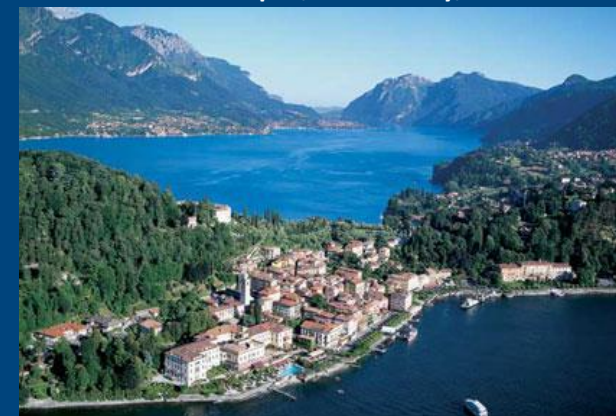
Politecnico di Milano Department of Civil and Environmental Engineering



SUMMER SCHOOL 2018

Performance, Protection & Strengthening of Structures under Extreme Loading

Lecco Campus, 6th-11th July, 2018



With patronage of *fib* International Federation for Structural Concrete



FRIDAY, 6th JULY 2018

- 09.00 - 10.30 HPFRC Material behaviour at high strain rates and high temperature (Prof. M. di Prisco)
- 10.30 - 11.00 coffee break
- 11.00 - 12.30 Meso-scale testing of FRC elements under blast and fire loads (Prof. M. di Prisco)
- Lunch*
- 14:30-16:00 Full-scale tests under blast and fire loads (Prof. M. di Prisco)
- 16:00-16:30 *Coffee break*
- 16:30-18:00 Design of tunnel segments taking into account exceptional loads. (Prof. M. di Prisco)

SATURDAY, 7th JULY 2018

- 9:00-10:30 Impact collapse: an introduction - phenomenology, examples, modeling approaches. (Prof. L. Daudeville)
- 10:30-11:00 *Coffee break*
- 11:00-12:30 Analytical and experimental approaches (Prof. L. Daudeville)

SOCIAL PROGRAMME

SATURDAY, 7th JULY 2018 – 14:00-23:00

Trip on Lake Como

SUNDAY, 8th JULY 2018 – 9:00-19:00

Trip to Grigna Mountain

MONDAY, 9th JULY 2018

- 9:00-10:30 Fire behaviour of structures (Prof. G. Balazs)
- 10:30-11:00 *Coffee break*
- 11:00-12:30 Concrete material response when exposed to high temperatures. (Prof. G. Balazs)
- Lunch*
- 14:30-16:00 Predictive numerical simulation: methodology, comparison to experimental results for impact (Prof. L. Daudeville)
- 16:00-16:30 *Coffee break*
- 16:30-18:00 R/C barriers for impact loadings (Prof. L. Daudeville)

TUESDAY, 10th JULY 2018

- 9:00-10:30 Introduction to structural assessment of infrastructures. (Prof. D. Hordijk)
- 10:30-11:00 *Coffee break*
- 11:00-12:30 Tests at SLS and ULS of Infrastructure (Prof. D. Hordijk)
- Lunch*
- 14:30-16:00 Analytical and experimental approaches (Prof. G. Balazs)
- 16:00-16:30 *Coffee break*
- 16:30-18:00 Protecting structures for fire mitigation (Prof. G. Balazs)

WEDNESDAY, 11th JULY 2018

- 9:00-10:30 Examples of assessment procedures (Prof. D. Hordijk)
- 10:30-11:00 *Coffee break*
- 11:00-12:30 Case studies (Prof. D. Hordijk)

REGISTRATION

Only the first 30 engineers will be accepted.
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The registration fee are per person (VAT included), covering course attendance and social events.

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

segreteria@ordinglc.it

Bank transfert to:

Banca Popolare di Sondrio - Agenzia n. 2 - Lecco
Payable to: Fondazione degli Ingegneri della Provincia di Lecco:

IBAN IT42E0569622902000005611X68



György L. Balázs

Professor at the Budapest University of Technology and Economics in Hungary. His main fields of activities are: experimental and analytical studies on concrete, reinforced concrete and prestressed concrete structures, FRC (fibre reinforced concretes), FRP (fibre reinforced polymers) as internally bonded reinforcements, externally bonded reinforcements or near surface mounted reinforcements. Durability, Service Life. Fire resistance and fire design. Bond and cracking. HPC (high performance concrete). Sustainability. Serves as chairman of fib Commission on Dissemination of knowledge including fib-courses and fib Textbook on Advanced design of concrete structures. He founded the series of fib International PhD Symposia in Civil Engineering in 1996. He has been elected as President of fib for the period of 2011 and 2012. Served as Immediate Past President of fib for 2013 and 2014, continues then as Honorary President.



Laurent Daudeville

Professor of Structural Engineering at the Faculty of Physics, Earth Science and Engineering of Université Grenoble Alpes. His main research topics concern the nonlinear modeling of civil engineering structures under transient dynamical loading (earthquakes, impacts). His collaborations, with CEA Gramat (French research center in defence and security) and with Electricité de France (EDF), on the vulnerability of concrete structures submitted to impacts allowed developing a coupled finite element/discrete element model for the prediction of advanced damage in RC structures as well as performing tests for the identification of concrete behaviour at very high level of stresses. Meanwhile, Professor Daudeville is scientific advisor in the French agency for the evaluation of research and higher education (Hcéres), he is in charge of organizing the evaluations of national research bodies.



Marco di Prisco

Professor of Structural Design at the 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, 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, honorary Editor of the European Journal of Environmental and Civil Engineering, Associate editor of the J. of Cement and Concrete Composites, member of fib, RILEM and ACI. He is member of the fib presidium and RILEM DAC, coauthor of the MC2010 chapters on FRC and convener of the Commission TC250/SC2/Wg1/Tg2 to introduce FRC in EC2.



Dick Hordijk

Professor of Concrete Structures at the Faculty of Civil Engineering and Geoscience of Delft University of Technology and director/owner of Adviesbureau Hageman consultancy office in the Netherlands. Main research interests: forensic structural engineering, assessment of existing concrete structures, proof loading, monitoring (acoustic emission, ultrasonic pulse measurements), theoretical, experimental and numerical analysis and constitutive modeling of concrete structures, fracture mechanics, fasteners, externally bonded FRP reinforcement, new types of concrete. Chief editor of the Dutch concrete journal "Cement" and editor of Heron. Member of fib and organizer of the 2017 Maastricht fib Symposium.