

Agenda

12/09/2022 Monday

Registration

CCC Reception

from 16:00

to 21:00

Welcome Evening

Grand Restaurant

from 17:30

to 21:30

Dinner

17:30 - 19:30

Cold table

19:30 - 21:30

Taste of Tatra region and Highlander regional band

13/09/2022 Tuesday

Registration

CCC Reception

from 8:00

to 18:00

Opening

Congress Center Gerlach

from 9:00

to 9:15

Prof. Marek Salamak (Organizing Committee)

Prof. György L. Balázs (fib Honorary President)

Prof. Wit Derkowski (Scientific Committee)

Session 1

Keynote lectures

from 9:15

to 11:00

1. [#71]

Reaching climate neutrality by 2050 by the cement industry

Deja J., Środa B., Krechowiecki G., Pilch Z., Gos P. (Polish Cement Association, Poland)

2. [#73]

Engineering for Post-Pandemic in Hungary

Balázs G.L. (Budapest University of Technology and Economics, Hungary)

3. [#10]

Consideration of Long-term Material Behavior on Numerical Design of Concrete Skyscrapers by means of In Situ Measurements

Müllner H., Kremnitzer P. (PORR Bau GmbH, Austria)

4. [#46]

UHPC – efficient method for strengthening of concrete structures

Vítek J., Boháček L. (Metrostav a.s., Czechia)

5. [#35]

Assessment of damage after ML=5.5 and ML=6.2 magnitude earthquakes in Zagreb and Petrinja

Vlašić A., Srbić M., Skokandić D., Mandić Ivanković A. (University of Zagreb, Croatia)

Break

Poster Session

from 11:00

to 11:30

Session 2

Concrete and sustainable construction

from 11:30

to 13:00

1. [#70]

Emissions category of concrete - future benchmark for construction

Górak P. (Cemex, Poland)

2. [#60]

UHPC – material for effective and resilient structures

Kalny M. (Pontex, Czechia)

3. [#51]

Investigating mechanical resistance of recycled concrete aggregate

Dacic A., Fenyvesi O. (Budapest University of Technology and Economics, Hungary)

4. [#74]

Sustainable Lafarge solutions for the construction industry

Drabczyk M. (Lafarge, Poland)

5. [#20]

Prediction of chloride profiles and discussion of time variant alterations

Binder F. (ASFINAG Baumanagement GmbH, Austria)

6. [#14]

The Use of Post-Installed Shear Reinforcement for Strengthening Concrete Flat Slabs

Gajdosova K., Bolesova M., Majtanova L. (Slovak University of Technology in Bratislava, Slovakia)

Lunch

Grand Restaurant

from 13:00

to 14:00

Poster Session

Expo Zone

from 14:00

to 18:00

Session 3

Green solution for concrete engineering

from 14:00

to 15:30

1. [#16]

Strengthening of concrete structures - Today's green solution for upcoming engineering challenges

Spiegl M., Feldbacher R., Öhrlein M. (ILF Consulting Engineers, Austria)

2. [#65]

ASTRA Geopolymer Concrete Composite - modern environmentally friendly technology

Wolka P. (ASTRA, Poland)

3. [#06]

Potential of the Portuguese precast concrete industry to store CO₂ towards a decarbonized society

Sousa V., Nogueira R., Jorge M. (University of Lisbon, Portugal)

4. [#75]

Repair of Barrandov Bridge in Prague

Ševčík P., Głodzik K. (VSL, Czechia, Poland)

5. [#22]

Efficient Project Execution with Low Carbon Concrete

Kasal P., Wenighofer W. (Doka GmbH, Czechia)

Session 3

Green solution for concrete engineering

from 14:00

to 15:30

6. [#37]

Opportunities for synthetic fibre reinforcement in concrete structures

Schaul P., Juhasz K. (JKP Static Ltd., Hungary)

Break

Expo Zone

from 16:00

to 16:30

Session 4

Concrete for roads, railways, bridges, and tunnels

from 16:30

to 18:00

1. [#05]

Review and Commentary on Comfort Criteria for Vibration Serviceability on Pedestrian bridges

Štimac Grandić I. (University of Rijeka, Croatia)

2. [#31]

Influence of rheological processes on the internal forces redistribution in cable-stayed bridges

Biliszczyk J., Teichgraeber M. (Wroclaw University of Science and Technology, Poland)

3. [#43]

New construction method for bridge structures using thin-walled precast elements

Untermarzonner F., Rath M., Kollegger J. (TU Wien, Austria)

4. [#27]

Leveraging computer vision for sustainable bridge structural monitoring

Winkler J. (DES / Atkins SNCL, Poland)

Session 4

Concrete for roads, railways, bridges, and tunnels

from 16:30

to 18:00

5. [#17]

The U-shaped footbridges made of UHPC

Prchlik J., Holý M., Marek J., Prchal J., Tej P., Kolisko J. (Klokner institute, CTU in Prague, Czechia)

6. [#40]

Static behaviour of GFRP reinforced lightweight concrete bridge deck slabs

Wiater A. (Rzeszow Univeristy of Technology, Poland)

7. [#42]

Assessment of Existing Bridges using Partial Safety Factors Calibration Methods

Srbić M., Kušter Marić M., Mandić Ivanković A., Skokandić D., Franulović D., Grlić S. (University of Zagreb, Croatia)

Gala Dinner

Congress Center Gerlach

from 19:00

to 0:00

Polish Jazz Trio

14/09/2022 Wednesday

Registration

CCC Reception

from 8:00

to 12:00

1. [#48]

Automated material handling equipment used in concrete engineering

Cservenák Á. (University of Miskolc, Hungary)

2. [#72]

The role of formwork in the implementation of architectural concrete in road infrastructure

Borucki P., Stożek S. (PERI Poland, Poland)

3. [#32]

Assessment of long-term reliability of reinforced concrete bridges using digital twins

Rymes J., Cervenka J., Jendele L. (Cervenka Consulting s.r.o., Czechia)

4. [#23]

High Speed Track Design with the Slab-Track-Austria System

Pavlicek S., Arnuga I., Pichler D., Biswas S. (VCE, Vienna Consulting Engineers, Austria)

5. [#04]

Self-compacting concrete with reduced formwork pressures

Němeček J., Trávníček P., Tichý J. (Czech Technical University in Prague, Czechia)

6. [#29]

Life-Cycle Assessment of the National Cultural Monument Aula Maxima SUA in Nitra

Sonnenschein R., Borzovic V., Bilcik J., Majtanova L. (Slovak University of Technology in Bratislava, Slovakia)

Session 5

Prefabrication and digital technologies

from 9:00

to 10:30

7. [#49]

Joins between precast segments of slender bridge structures

Velešik M., Nečas R., Požár M., Strnad J. (Brno University of Technology, Czechia)

8. [#59]

Precast concrete culverts and small bridges

Wąchalski K., Janka Ł. (OPTEM Sp. z o.o., Poland)

Break

Expo Zone

from 10:30

to 11:00

Session 6

Other topics

from 11:00

to 12:30

1. [#26]

Static and fatigue behaviour of precast GFRP reinforced lightweight concrete arches

Piątek B. (Rzeszow University of Technology, Poland)

2. [#36]

Experimental and numerical investigation of bridge columns with smooth reinforcement and atypical cross section

Srbić M., Mandić Ivanković A., Vlašić A., Kušter Marić M., Skokandić D., Hrelja Kovačević G., Mujkanović N. (University of Zagreb, Croatia)

3. [#28]

Impacts on prefabricated T-type prestressed concrete beams

Hanaczowski M. (HAMAR Marek Hanaczowski, Poland)

Session 6

Other topics

from 11:00

to 12:30

4. [#44]

Failures of industrial floors caused by volume changes of concrete and subsoil

Cajka R., Burkovic K., Mynarcik P. (Technical University of Ostrava, Czechia)

5. [#69]

Comparative study of results from clip gauges, LVDTs, and DIC technique for PFRC three-point bending and splitting tensile test

Blazy J., Grzyb K., Drobiec Ł. (Silesian University of Technology, Poland)

6. [#30]

Durability assessment of cables in cable-stayed bridges

Teichgraeber M. (Wroclaw University of Science and Technology, Poland)

7. [#25]

Experimental analysis of reinforced concrete beam strengthened in shear by various methods

Borzovič V., Baran J., Fecko T., Halvonik J. (Slovak University of Technology in Bratislava, Slovakia)

Closing

Prof. Marek Salamak (Organizing Committee)

from 12:30

to 13:00

Lunch

Grand Restaurant

from 13:00

to 14:00

Social Program

Reserved cable car trip to Kasprowy Wierch with refreshments

from 15:00

to 18:00

1. [#21]

Rheological properties of 3D Printing Concrete

Abdelmelek N., Balázs G.L. (Budapest University of Technology and Economics, Hungary)

2. [#08]

Implementation of digital twin and linear regression in SHM of Bridges: a case study

Al-hijazeen A., Koris K. (Budapest University of Technology and Economics, Hungary)

3. [#19]

Environmental aspects of 3D printing technology of concrete - Review Article

Alimrani N., Balázs G.L. (Budapest University of Technology and Economics, Hungary)

4. [#57]

BIM and Lean as support in achieving the goals of climate neutrality

Drzyzga W., Salamak M. (Silesian University of Technology, Poland)

5. [#07]

Load testing of Kurow extradosed bridge with FE modelling of its concrete structure

Fawad M., Salamak M., Kalman K., Łaziński P., Poprawa G. (Silesian University of Technology, Pakistan/Poland)

6. [#38]

CO2-Optimization Design of a concrete slab structure

Juhasz K., Schaul P., Veres B. (JKP Static Ltd., Hungary)

7. [#54]

An innovative system for monitoring the mechanical properties of concrete

Łaziński P., Krzakała J., Grządziela G. (Silesian University of Technology, Poland)

8. [#15]

Verification of the dynamic behaviour of existing footbridge in Hradec Králové

Mezera A., Holý M., Kolísko J., Polák M. (Klokner institute, CTU in Prague, Czechia)

9. [#02]

FE model updating using load test and Genetic Algorithm. A case study of Vietnamese SuoiMon Bridge with precast girders

Nguyen D., Salamak M., Katunin A. (Silesian University of Technology, Vietnam/Poland)

10. [#03]

Digital mobile techniques for inspecting concrete bridges

Salamak M. (Silesian University of Technology, Poland)

11. [#11]

A Review in Technologies, definitions and Mechanical Properties of Ultra High Performance Concrete (UHPC)

Seyam A., L. Balazs G. (Budapest University of Technology and Economics, Hungary)

12. [#67]

Recycled cement paste carbonation: the industrial advance of the short carbonation process

Nogueira R., Silva A., Bogas A. (University of Lisbon, Portugal)

13. [#47]

Textile reinforcement in concrete: potentials and possibilities

Somlai B., Sólyom S., Balázs L. G. (Budapest University of Technology and Economics, Hungary)

14. [#56]

Effect of cement content and maximum grain size on the properties of high-strength self-compacting concrete

Szijártó A., Nehme S. (Budapest University of Technology and Economics, Hungary)

15. [#13]

3D Printing – Challenges for Concrete Printing

Thajeel M., Balázs G. (Budapest University of Technology and Economics, Hungary)