

The 12th Central European Congress on Concrete Engineering

31 August - 1 September 2017, Tokaj, Hungary

TENTATIVE PROGRAMME (Version 19 August 2017)

Innovative Materials and Technologies for Concrete Structures

This Tentative Programme may be subjected to changes

<http://www.fib.bme.hu/cc2017.html>

Wednesday, 30 August 2017

19 ⁰⁰ -21 ⁰⁰	Welcome drink in Tokaj – Cultural and Conference Complex
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Thursday, 31 August 2017

Session 1: Opening of CC2017 Tokaj

Main Hall

9 ⁰⁰ -9 ³⁰	Welcome by the Major of Tokaj Opening speech, György L. Balázs Invitation to CCC2019, Jelena BLEIZIFFER and Nikola Miletić
9 ³⁰ -9 ⁴⁵	Béla Csíki, Károly Kőszeghy, Zoltan Perczel New type prefabricated water towers with prestressed mast
9 ⁴⁵ -10 ⁰⁰	Iztok Arnuga, Robert Schedler, Michael Fritsch The longest integral bridge in Austria – A5.24 Bridge over the Satzengraben
10 ⁰⁰ -10 ¹⁵	Jan L. Vitek, Robert Coufal, Jiří Kolísko, Radek Vašátko Modulus of elasticity – specification, acceptance criteria and influence on structural performance
10 ¹⁵ -10 ³⁰	Marek Salamak, Artur Salachna, Piotr Łaziński Construction and load test of cable-stayed concrete tram bridge in Krakow
10 ³⁰ -10 ⁴⁵	Galic Josip Examples of advanced concrete structures in Croatia
10 ⁴⁵ -11 ¹⁵	Opening of Poster Session and Exhibition Morning coffee break

Thursday, 31 August 2017

Session 2: Topic 1. Tailored properties of concrete

Chairmen:

11 ¹⁵ -11 ³⁰	Tamás Mészöly, Norbert Randl An advanced approach to derive the constitutive law of UHPFRC
11 ³⁰ -11 ⁴⁵	Miquel Joseph, Zeger Sierens, Jeroen Massaer, Dylan Noppe, Jiabin Li, Luc Boehme Influence of the purity of recycled concrete aggregates on the mechanical properties of dry and self-compacting precast concrete

11 ⁴⁵ -12 ⁰⁰	Olivér Czoboly, György L. Balázs Effect of mixing time to the properties of steel fibres and SFRC
12 ⁰⁰ -12 ¹⁵	Egon Milost, Tadeja Kosec, Aljoša Šajna, Irina Stjepanović, Andraž Legat, Violeta Bokan Bosiljkov Effect of supplementary cementitious materials on mortar properties and corrosion of steel in different environments
12 ¹⁵ -12 ³⁰	Jiří Kolísko, David Čítek, Petr Tej, Milan Rydval Experimental pedestrian thin walled double curvature arch footbridge made of UHPFRC
12 ³⁰ -12 ⁴⁵	György L. Balazs, Tamás Simon, Tibor Kausay Hungarian application to the European concrete norm and Evaluation of the compressive strength of concrete
13 ⁰⁰ -14 ⁰⁰	Lunch
14 ⁰⁰ -17 ⁴⁵	Poster session

Thursday, 31 August 2017	
Session 3: Topic 3. Advanced production and construction technologies	
Chairmen:	
14 ⁰⁰ -14 ¹⁵	Michael Olipitz Small bridges up to 35 m span in UHPC construction - system bridges with aesthetic requirements
14 ¹⁵ -14 ³⁰	Michael Kleiser, Wolfgang Lindlbauer, Dr. Helmut Huber An ASFINAG pilot project for a watertight structure without reinforcement for crack width control
14 ³⁰ -14 ⁴⁵	Vítězslav Vacek, Miroslav Sýkora, Jiří Kolísko, Vladimír Vančík Effect of design and execution on quality and durability of multi-storey reinforced concrete parking garages
14 ⁴⁵ -15 ⁰⁰	Herbert Weier "Floating" Bridge, Production in Elevated Position
15 ⁰⁰ -15 ¹⁵	Árpád Orosz, János Nagy, Ernő Zábrádi, Aliz Horváth, Imre Répáczki Foundation slabs supported by spot footing
15 ¹⁵ -15 ³⁰	Vedad Terzic, Reuf Kadrić Application of Macro-synthetic-fiber-reinforced sprayed concrete for primary lining support on Highway Tunnel Project in Bosnia and Herzegovina
15 ³⁰ -15 ⁴⁵	Kálmán Koris, István Bódi Shear capacity of prestressed FRC beams with sparse stirrup spacing
15 ⁴⁵ -16 ¹⁵	Afternoon coffee break

Thursday, 31 August 2017	
Session 4: Topic 2. Advanced reinforcing and prestressing materials and technologies	
Chairmen:	
16 ¹⁵ -16 ³⁰	Vazul Boros, Balthasar Novák Adjustment of internal prestressing in existing structures – a case study
16 ³⁰ -16 ⁴⁵	Michael Huß, Philipp Hadl, Viet Tue Nguyen Fiber distribution in beams by using an innovative steel fiber type – experimental investigations
16 ⁴⁵ -17 ⁰⁰	Agnieszka Wiater Research on the lightweight concrete bridge deck slabs reinforced with GFRP composite bars

17 ⁰⁰ -17 ¹⁵	Tamás Nagy-György, Viorel Todea, Valeriu Stoian, Daniel Dan, Sorin Codruț Floruț Hybrid steel-concrete shear walls strengthened using high performance steel fiber reinforced cementitious composites
17 ¹⁵ -17 ³⁰	Efi Apostolidi, Konrad Bergmeister, A. Strauss, P. Winkler Innovative Perforated Steel Sheet Reinforcement: Corbel approach
17 ³⁰ -17 ⁴⁵	Cronje Bruwer Behaviour of multi-directional CFRP and uniformly-directional CFRP plate bonded to concrete by means of epoxy and a combination of epoxy and mechanical anchors
20 ⁰⁰ -23 ⁰⁰	Congress Dinner

Thursday, 31 August 2017 – 14⁰⁰-17⁴⁵	
Poster Session	
Poster Session is organized for the Poster presentations:	
<ol style="list-style-type: none"> 1. Posters are prepared and displayed by the authors at the Venue before the Opening of the Congress (before 9 o'clock Thursday, 31 Aug 2017) 2. Posters are presented by one of the authors in front of a Jury 3. Posters with Poster presentations are evaluated during the Closing 	
Anikó Pluzsik, Mária Tóth, Tamás Pluzsik, Bálint Morlin	Experimental investigations of pullout behaviour of synthetic fibres
Jan Tichý, Bohuslav Slánský, Stanislav Ševčík	Optimizing of UHPC railing panels and their practical application
George C. Fanourakis	Evaluation of the creep coefficients of the fib 2010 and Rilem B4 concrete creep prediction models
Wojciech Kubissa, Roman Jaskulski, Tamás Simon	Surface blast-cleaning waste as a replacement of fine aggregate in concrete
Cronje Bruwer	Influence of unidirectional CFRP plate pull-off strength bonded to concrete by means of epoxy and a combination of epoxy and mechanical anchors
Zofia Szweda, Andrzej Śliwka	Predicting risk of corrosion of bridges made of concrete on portland cement and low alkali portland cement
Tomasz Krykowski, Faustyn RECHA, Tomasz Jaśniok	The simulation of corrosion degradation of concrete specimen in stationary heat and moisture conditions
Andrzej Śliwka	The deformation of the ground caused by mining exploitation and the internal forces in freely supported bridge
Craig M. Newton, Ahmed J. Al-Basha, Brad D. Weldon	Compressive and flexural strengths of heat cured ultra-high performance concrete produced with local materials
Peter Paulík, Michal Bačuvčík, Ivan Janotka	Material properties of the oldest concretes used in bridge construction in Slovakia
Katarína Gajdošová, Róbert Sonnenschein	Long-term properties of FRP reinforcement
Monika Kaszubska, Renata Kotynia, Damian Szczech	Comparison of shear strength assessment according to Eurocode 2 and Model Code 2010 design procedures

Miklós Gálos, Ákos Orosz, Kornél Tamás, János Péter Rádics Modelling the aggregates for concrete additives via discrete element numerical simulation
Zbyněk Keršner, Hana Šimonová, Petr Daněk, Petr Frantik, Martin Sedlmajer Characterization of old/repairing structural concrete through mechanical fracture parameters
Vlastimil Bílek, David Pytlík, Marketa Bambuchova, Sabina Bonczkova, Martin Sedenka Comparison of mechanical properties and in particular the modules of elasticity of different concretes
Marek Salamak, P. Klikowicz Various aspects of health monitoring systems in Polish concrete bridges
Yupeng Yang Value-added recycling of waste concrete on a construction site
Jiabin Li, Daguang Han, Yongwang Geng, Jianfeng Bai, Yupeng Yang, Chunli Ying, Hongyuan Li Feasibility of on-site recycling and reuse of waste concrete in China – a case study
Łukasz Krawczyk, Michał Gołdyn, Tadeusz Urban Digital image correlation system in experimental investigation of concrete structures – capabilities and limitation
Waldemar Bober Experimental prestressed shell by Waclaw Zalewski
Slaven Katalinić, Anđelko Vlašić Comparison of different calculation methods and models for mixed core-frame structural system
Marek Salamak, Mateusz Źarski Integrated lifecycle analysis of a concrete bridge
Bartosz Piątek, Tomasz Siwowski Research on the new CFRP prestressing system for strengthening of RC structures
Čechmánek René, Drdlová Martina, Boháč Martin Fresh and hardened state of fibre concrete
Zoltán Gyurkó, Rita Nemes, Anna Szijártó, Mohammed Abed Effect of metakaolin and cellular concrete powder as supplementary material on compressive strength and frost resistance of normal strength concrete
Radomir Pukl, Tereza Sajdlová, Károly Péter Juhász, Lóránt Nagy Fibre reinforced concrete constitutive laws for numerical simulation
Zeger Sierens, Miquel Joseph, Jiabin Li, Luc Boehme Early-age properties of recycled aggregate concrete – A state-of-the-art review
Péter Schaul, Károly Péter Juhász, John Hammond Numerical modelling of a precast fibre reinforced concrete track slab
Péter Ludvig, Rocha V. V. Characterization of Portland cement composites prepared by a dispersion of carbon nanotubes on cement particles
Piotr Łaziński Forecasting of concrete modulus of elasticity on granite aggregate with the consideration of mechanical parameters of aggregate
Andrzej Śliwka, Katarzyna Domagała Application of potentiostatic measurements according to PN-EN 480-14 in assessment of the efficiency of reinforcement protection against corrosion by concrete with addition of fly ashes
Zsolt Roszevák, István Haris Comparison of the realistic behaviour and the widely applied static models on different cast-in-situ RC joints

Andreas Haus Combined Reinforcement – The effect of steel fibres for crack width limitation
Viktor Hlavička, Éva Lublőy Bonded anchors in thermally-damaged concrete
Zoltán Teiter Spectacular structure in an economical way: cable-stayed bridge with arched pylons over the river Tisza
Barbara Słomka-Słupik, Adam Zybura Thaumasite formation in cement paste exposed for 4 days to ammonium chloride saturated water solution at ambient temperature and pressure
Sándor Sólyom, György L. Balázs Non-metallic reinforcement for concrete structures with different moduli of elasticity and surfaces
Abdulkader El Mir, Salem G. Nehme, Ági Péity Effect of maximum aggregate size on mechanical properties of high-strength concrete
Éva Lublőy, Abdelmelek Nabil Improved fire resistance by using different supplementary materials
Bartosz Pisarek, Czesław Machelski Change of the grade line of bridges constructed with cantilever concreting technology
Dalibor Sekulić, Mario Ille, Igor Džajić Advanced RC structures with integrated monitoring sensors
Tomislav Brozović, Tomislav Brozović, Tomislav Kišiček, Ana Mandić Ivanković Static and dynamic response of damaged prestressed RC beams flexural strengthened with CFRP

Friday, 1 September 2017	
Session 5: Topic 5. Modelling, design and codification	
Chairmen:	
8 ¹⁵ -8 ³⁰	Jelena Bleiziffer, Ivana Milić Advances in bridge management systems
8 ³⁰ -8 ⁴⁵	Andor Windisch New concept for design of concrete structures
8 ⁴⁵ -9 ⁰⁰	Radomír Pukl, Vladimír ČERVENKA, Tereza SAJDLOVÁ, Jan ČERVENKA, Drahomír NOVÁK Probabilistic study about uncertainties in predicting shear beam cracking and failure
9 ⁰⁰ -9 ¹⁵	Michaela Kopp, Markus Vill Shear load assessment of existing concrete bridges by nonlinear FE-modelling
9 ¹⁵ -9 ³⁰	Peter Joachim Heinrich, Dirk Schlicke Design of unreinforced mass concrete members with respect to real structural behaviour
9 ³⁰ -9 ⁴⁵	Károly Péter Juhász, Péter Schaul, Lóránt Nagy Optimisation of TBM Tunnel in the Shanghai Metro Extension using Macro Synthetic Fibre
9 ⁴⁵ -10 ⁰⁰	Péter Schaul, György L. Balázs Shear design opportunities for synthetic reinforced concrete beams
10 ⁰⁰ -10 ¹⁵	George C. Fanourakis Validation of the fib 2010 and Rilem B4 models for predicting creep in concrete

10 ¹⁵ -11 ³⁰	Tomasz PŁASZCZYK, M. Jasiński, Marek Salamak Visual programming and BIM technology in parametric concrete bridge modelling
10 ³⁰ -11 ⁰⁰	Morning coffee break

Friday, 1 September 2017

Session 6: Topic 4. Advanced concrete structures

Chairmen:

11 ⁰⁰ -11 ¹⁵	Johannes Oppeneder, Lutz Sparowitz, Bernhard Freytag, Nguyen Viet Tue Construction Concept for the Quickway System
11 ¹⁵ -11 ³⁰	Jan Biliszcuk, Paweł Hawryszków, Marco Teichgraeber Structural Health Monitoring system of a concrete cable-stayed bridge
11 ³⁰ -11 ⁴⁵	Benjamin Kromoser, Johann Kollegger Construction of a thin walled concrete shell event canopy
11 ⁴⁵ -12 ⁰⁰	Marta Wiśniowska, Krystyna Nagrodzka-Godycka Design and construction of tilted walls in accordance with codes' provisions on the example of the construction of the museum of the second world war in Gdańsk
12 ⁰⁰ -12 ¹⁵	Dubrovsky Gábor Precast bridge girders to span 44 m
12 ¹⁵ -12 ³⁰	Elena Meteș, Dragoș Alupoae, Sergiu Enache, Gavril Köllö, Edward Petzek VTR® - Modular bridge concept for skew intersections
12 ³⁰ -12 ⁴⁵	Martin Schneider, Norbert Randl, Bernhard K. Hofer Quantifying the effect of mixture properties of high performance concrete overlays on adhesive bond to NSC substrates on the basis of axial tensile tests
12 ⁴⁵ -13 ¹⁵	Closing ceremony
13 ¹⁵ -14 ¹⁵	Lunch

14 ³⁰ -18 ⁰⁰	Technical Excursion New concrete structure for SAUSKA Winery in Tokaj
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Congress Venue

Tokaj – Cultural and Conference Complex

Tokaj, Serház Street 55.

GPS: 48.12641525268555 | 21.41019630432129



Congress Dinner

Thursday, 31 August 2017, 20⁰⁰-23⁰⁰

Tokaj, Kossuth Square 15.

Tokaj, Serház Street 55.

GPS: 48.125617 | 21.408203

