

CCC 2026 - CONFERENCE PROGRAMME

Sunday, 4 October 2026 - *Pre-Conference Day*

18:00 – 20:00 **Welcome Reception at Restaurant Sky**

Monday, 5 October 2026 - *Day 1*

08:00 – 09:00 **Registration of participants**

09:00 – 09:15 **Opening Ceremony**

Session 1 - Plenary Keynote Lecture - Bridges

09:15 – 10:00 **Plenary Keynote Lecture - dr.sc. Zlatko Šavor** Development of the Melan Method from first applications to record span arch bridges

10:00 – 10:45 **Plenary Keynote Lecture - János Magyar** Extradosed Bridge History in Hungary – Twenty Years of Construction Experience

10:45 – 11:15 **Coffee Break**

Session 2 - National Keynote Lectures

11:15 – 11:30 **Marek Salamak**, Mateusz Uściłowski, Borys Kopeć, Muhammad Fawad Multispectral diagnostics of a prestressed concrete pylon in an extradosed bridge

11:30 – 11:45 **Marija Kušter Marić**, Mladen Srbić, Suzana Hozmec, Marko Šimić, Dražen Brkić, Marta Piškor Anti-ballistic concrete panel testing on explosions according to NATO standards

11:45 – 12:00 Petr Souček, Martin Blatský, **Jan L. Vítek** Dvorecký bridge – A new contribution of contemporary architecture to historic Prague

12:00 – 12:15 György L. Balázs, Csongor Czintos, Oscar Paffermann, Gabor Kardos, Wisam K. Tuama, Sándor Sólyom Automated production of fibre reinforced concrete

12:15 – 12:30 **Aldrian Wolfgang** Sprayed concrete, a modern and versatile construction material, is well covered by the new Austrian Sprayed Concrete Guideline

12:30 – 12:45 **Mladen Srbić**, Ana Mandić Ivanković, Luka Borilović, Anđelko Vlašić, Gordana Hrelja Kovačević Seismic Assessment of the Existing Arched Bridge by application of the Pushover Method

12:45 – 13:00 Marta Knawa-Hawryszków and **Paweł Hawryszków** International Cooperation in BIM Education – Achievements of the Erasmus+ BIP Workshop

13:00 – 14:00 **Lunch Break**

Session 3 - Structural Modelling and Analysis

14:00 – 14:45 **Plenary Keynote Lecture - dr. Jan Červenka** Beyond the Safety Factor: Confronting Uncertainty in Nonlinear Reinforced Concrete Analysis

14:45 – 15:00 **Lili Eszter Hlavicka-Laczák**, László Péter Kollár Deflection calculation of reinforced concrete beams and slabs

15:00 – 15:15 Alexandru Jivan , **Daniel Dan**, Viorel Todea, Sorin-Codruț Floruț , Vlad-Șerban Popescu Numerical assessment of an innovative strengthening technique for hybrid steel-concrete shear walls with central openings

15:15 – 15:30	Vlad-Șerban Popescu , Daniel Dan , Sorin-Codruț Floruț, Viorel Todea and Alexandru Jivan	Influence of opening configuration on the behavior of hybrid steel-concrete shear walls with steel-fiber-reinforced concrete
15:30 – 15:45	Hrvoje Čagalj , Mario Uroš	Influence of Nonlinear Shear Modelling on the Pushover Response of an Existing Reinforced Concrete Wall Building

15:45 – 16:15	Coffee Break	
Session 4 - Bridges		
16:15 – 16:30	Jan Biliszcuk	Bridges in the history of Poland
16:30 – 16:45	Wojciech Lorenc, Maciej Kozuch, Marco Teichgraeber, Jan Biliszcuk	Hybrid composite bridges: development and introduction to design standards
16:45 – 17:00	Anđelko Vlašić , Leonardo Trdinšak, Mladen Srbić	Comparison of alternative seismic design concepts for a continuous composite Bridge
17:00 – 17:15	Piotr Łaziński , Marcin Jasiński, Dawid Piotrowski, Mateusz Uściłowski, Kamil Bednarz, Grzegorz Poprawa	Identification of the concrete modulus of elasticity for the construction of an extradosed bridge in Kostrzyn, Poland
17:15 – 17:30	Lukas Vrablik , Ondrej Matousek	Design and construction of new bridge structures erected by balanced cantilevers method in Czech Republic
17:30 – 17:45	Marija Kušter Marić, Petra Milić , Josipa Rendulić	Impact of climate change on service life of concrete bridge exposed to de-icing salts: case study Golubinjak viaduct
17:45 – 18:00	Goran Puž , Danijel Tenžera, Gordana Hrelja Kovačević	Repair and Management of Small Concrete Bridges in Croatia
18:00 – 18:15	Ivan Duvnjak , Marko Bartolac, Janko Koščak, Suzana Ereiz	Dynamic measurements as a stiffness indicator for a cracked reinforced-concrete bridge: A case study with static load test validation

Tuesday, 6 October 2026 - *Day 2*

Session 5 - Sustainable Materials		
09:00 – 09:45	Plenary Keynote Lecture - Rainer Hausenberger	Performance-Based Concrete Standards BS1 and BS2 as a Pathway to CO ₂ -Reduced and Durable Construction
09:45 – 10:00	Anna Szijarto , Peter Ludvig, Marcio Mateus Pimenta, Lucas Thadeu da Silva Ramos, Augusto Cesar da Silva Bezerra and Salem Nehme	Influence of Rice Husk Ash on the Fresh and Hardened Properties of High-Performance Self-Compacting Concrete
10:00 – 10:15	Mario Filipović , Goran Balojević, Nikola Grgić	Utilization of waste building materials as mineral additions in concrete
10:15 – 10:30	Agnieszka Wiater , Tomasz Siwowski, Mateusz Rajchel	Physical and mechanical properties of concrete mixes with raw-crushed wind turbine blade
10:30 – 10:45	Marija Mendeš , Marijana Serdar, Jelena Šantek Bajto, Martina Grubor, Nina Štirmer	Application of Alkali-Activated Concrete in Precast Street Furniture
10:45 - 11:15	Coffee Break	

Session 6 - Structural Design and Prestressing

11:15 – 11:30	Klaus Lanzinger	Advancing Post-Tensioning: Insights from fib Bulletin 113 on Plastic-Ducts
11:30 – 11:45	Tomas Vizner, Jan L. Vitek	Effect of Bond of Post-tensioned Reinforcement on Cracking and Deflection of Concrete Beams
11:45 – 12:00	Saša Mitrović, Lazar Lukačević, Ivan Palijan, Luka Eškinja, Jelena Tatalović, Daniel Repac, Ada Hero Mikić	Structural Challenges in Reinforced Concrete and Post-Tensioned Components of the Žabica Terminal in Rijeka
12:00 – 12:15	Ivan Vozila	Bulk Cement Silo - Design and Analysis
12:15 – 12:30	Marin Franetović, Nina Serdarević, Alen Hadžimujić, Dalibor Tomić	Small hydropower plant Otočac Project
12:30 – 12:45	Berislav Medić, Natko Babić, Martina Vukelja	New city library and cultural centre Paromlin
12:45 – 13:00	Žiga Unuk	Tensile behavior of a hybrid steel-concrete joint for discrete reticulated timber structures

13:00 – 14:00 Lunch Break

Session 7 - Durability

14:00 – 14:45	Federico Laino, Daniele Sala - Mapei S.p.A.	Sponsored session
14:45 – 15:00	Szabolcs Ferenc Iván, Kálmán Koris, Tibor Szilveszter Farkas, Zsolt Roszevák, István Haris	Early Concrete Shrinkage under Low and Saturated Humidity: An Experimental Study
15:00 – 15:15	Fatima I. AlHamadi, Ahmed AlKaabi	Durability and Gamma Shielding of MWCNT- and GNP-Modified Mortars under Wet-Dry Sulfate Cycling
15:15 – 15:30	Eva Szilvia Horvath, Max Merzlikin, Istvan Banhegyi-Nagy	Case Studies on Improving the Durability and Corrosion Resistance of Reinforced Concrete Structures by Advanced Surface-Applied Treatment
15:30 – 15:45	Katalin Kopecskó	Durability – Case studies with structural consequences From Observed Damage to Evidence-Based Diagnosis

15:45 – 16:15 Coffee Break

15:45 – 16:15 Digital Poster Display Posters will rotate continuously on the conference screen throughout the coffee break.

Sara Baradarandilmaghani, Ibrahim Fuad Hasan Abuawwad, Mohammad Mahmoud Ahmad Alzaidanin, Sándor Sólyom	Mechanical and Durability Performance of Limestone Calcined Clay Cement (LC3) Concrete: Progress, Limitations and Future Research Needs
Jelena Bleiziffer, Vlado Leventić	BIM for bridge sustainability assessment – a review
Josip Galić, Predrag Presecki, Igor Gukov, Filip Cvetko	Application of Prestressing in Complex Load-Bearing Elements of High-Rise Buildings - Reconstruction of Hotel Marjan, Split
Mislav Stepinac, Karlo Ožić	ARTHUR project - Framework for Understudied Sacral Masonry Structures

Session 8 - Structural Assessment and Retrofit

16:15 – 16:30	Tibor Szilveszter Farkas, István Haris	Experimental and Numerical Investigation of Material Parameters in Brick Masonry Infills
16:30 – 16:45	Arton Dautaj, Markel Baballku, Ali Muriqi	A Simplified Micro-Modelling Technique for RC Frames Infilled with Vertically Hollow Clay Blocks under In-Plane Loading
16:45 – 17:00	Alush Shala, Jelena Bleiziffer, Arton Dautaj	Vertical Structural Extensions as Passive Seismic Response Modifiers in Existing Buildings
17:00 – 17:15	Miloš Zich, Michael Trnka, Ondřej Šimek, Martin Lukšo	Analysis of the Gabčíkovo lock outlet channel failure
17:15 – 17:30	Keti Laptalo, Antonela Moretić, Mislav Stepinac	From Individual Buildings to Urban Aggregates: Seismic Vulnerability of Historic Masonry Blocks in Zagreb and Dubrovnik within the POTEPUH Project
17:30 – 17:45	Mario Uroš, Marija Jelčić Rukavina, Juraj Pojatina, Mario Todorić, Milan Crnogorac, Josip Atalić	THE VJESNIK BUILDING FIRE: DAMAGE AND STRUCTURAL ASSESSMENT
17:45 – 18:00	Jurica Pajan, Josip Galić, Krešimir Debelić, Hrvoje Vukoja	From JUS/DIN 1045 to Eurocode: Reassessment and Strengthening of an Existing Reinforced Concrete Industrial Tower
19:00 – 00:00	Conference Dinner with Live Music	
00:00 – 04:00	After Party at Disco	

Wednesday, 7 October 2026 - Day 3

Session 9 - Advanced Materials, Reinforcement and Bond

09:30 - 09:45	Milena Kucharska, Piotr Dybeł	Effect of rib orientation on defects in concrete cover based on X-ray CT analysis
09:45 - 10:00	Mujahed Alsomiri, Antroula Georgiou, Norbert Randl	Data-based Assessment of Cement Replacement Strategies for Eco-friendly UHPC
10:00 – 10:15	Vita Varezić, Josip Galić, Lucija Stepinac, Davor Andrić	Topology-Optimized Repetitive Architectural Forms for Segmental 3D-Printed Concrete Construction: A PRINTCON Research Framework
10:15 – 10:30	Milena Kucharska, Piotr Dybeł	Effect of rib orientation on steel–concrete bond strength
10:30 – 10:45	Szabolcs Szinvai, Tamás Kovács	Experimental study of the shear behavior of steel-GFRP hybrid reinforced concrete beams
10:45 – 11:00	Tomislav Brozović, Tomislav Kišiček	Determination of FRP-to-Concrete Bond-Slip Curvature Based on Hinged Beam Bond Test
11:00 – 11:30	Coffee Break	

Session 10 - Digital Methods, Monitoring and Diagnostics

11:30 – 11:45	Marek Salamak, Mateusz Uściłowski, Rafał Szafraniec, Borys Kopeć, Krauze Przemysław	Geometric Monitoring as an Indirect Method for Assessing the Condition of Prestressing Tendons in Concrete Bridges
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11:45 – 12:00	Asseel Al-Hijazeen, Kálmán Koris	Smart health monitoring and automatic damage identification in RC bridge maintenance
12:00 – 12:15	Bernardica Crnogorac , Marko Babić, Domagoj Dobrilović	Application of Non-Destructive Testing (NDT) Methods in the Detection of Early-Stage Damage in Reinforced Concrete Structures
12:15 – 12:30	Franka Meštrović , Ivo Haladin, Ariana Kazda, Maja Baniček, Ivan Duvnjak, Krešimir Burnać	Dynamic Analysis of Slab Tram Track: From In-situ Measurements and Numerical Modelling to Continuous Monitoring and Structure Optimization
12:30 – 12:45	Paweł Hawryszków , Marek Borowski	Designing of bridge structures in the BIM standard
12:45 – 13:00	Closing Remarks	
13:00 – 14:00	Lunch Break	
15:00	Technical Visit to Krka National Park	