

DEPARTMENT OF STRUCTURES AND BRIDGES

FACULTY OF CIVIL ENGINEERING

UNIVERSITY OF ŽILINA



CONFERENCE PROGRAM

HOTEL HOLIDAY INN, ŽILINA, SLOVAKIA

NOVEMBER 5 – 7, 2025

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CONFERENCE SCHEDULE

Wednesday, November 5, 2025

16:00 - 18:00	Registration	(Hotel Holiday Inn, Žilina)
19:00 - 21:00	Welcome Drink	(Cafeteria, main Building UNIZA)

Thursday, November 6, 2025

08:00 - 09:00	Registration	
09:00 - 09:15	Opening	(Room 1)
09:15 - 11:15	Keynote lectures	(Room 1)
11:15 - 11:45	Coffee Break	
11:45 - 12:45	Parallel Sessions	(Room 1, Room 2)
12:45 - 14:00	Lunch	
14:00 - 15:30	Parallel Sessions	(Room 1, Room 2)
15:30 - 16:00	Coffee Break	
16:00 - 17:30	Parallel Sessions	(Room 1, Room 2)
19:00 - 23:00	Gala Dinner	

Friday, November 7, 2025

09:00 - 10:00	Poster section	
10:00 - 10:30	Coffee Break	
10:30 - 12:30	Panel Discussion	(Room 1)
12:30 - 13:30	Lunch	
14:00 - 16:00	Excursion	

DETAILED SCIENTIFIC-TECHNICAL CONFERENCE PROGRAM

Thursday, November 6, 2025

09:00 – 09:15 OPENING OF THE CONFERENCE **(Room 1)**

09:15 – 11:15 PLENARY SESSION 1 - KEYNOTE LECTURES **(Room 1)**

 Jan BIEŃ & Marek SALAMAK (Poland)

MODERN TOOLS FOR INSPECTION AND MANAGEMENT OF EXISTING BRIDGES

 Pavel RYJÁČEK (Czech Republic)

THE ASSESSMENT, RENOVATION AND RECONSTRUCTION OF EXISTING STEEL BRIDGES IN CZECHIA

 László DUNAI & Balázs KÖVESDI (Hungary)

THE EN 1993-1-14 STANDARD AND APPLICATION FOR EXISTING BRIDGES

 Martin MORAVČÍK (Slovakia)

ASSESSMENT AND MONITORING STRATEGIES FOR PRESTRESSED CONCRETE BRIDGES

11:15 – 11:45 COFFEE BREAK

11:45 – 12:45 PARALLEL SESSION 1.1

(Room 1)

-  Patrik KOTULA, Štefan VRAVEC, Ján POVEC
REVÍZNA A DOHLIADACIA ČINNOSŤ NA MOSTNÝCH OBJEKTOCH ŽSR
(INSPECTION AND SUPERVISION ACTIVITIES ON BRIDGE STRUCTURES OF RAILWAYS OF THE SLOVAK REPUBLIC)
-  Martin HALMO
RIEŠENIE IZOLÁCIE MOSTOV NA BÁZE POLYUREA
(BRIDGE WATERPROOFING SOLUTIONS BASED ON POLYUREA)
-  Vojtěch DYNBYL, Vít LOJDA, Pavel RYJÁČEK, Leoš HORNÍČEK, Daniel VÍCH, Petr KLOKOČNÍK
MOŽNOSTI SLEDOVÁNÍ DEGRADACE KONSTRUKCÍ ŽELEZNIČNÍ INFRASTRUKTURY
(POSSIBILITIES OF MONITORING THE DEGRADATION OF STRUCTURES IN RAILWAY INFRASTRUCTURE)
-  František STEJSKAL
AKTÍVNA PROTIKORÓZNA OCHRANA (APKO) ŽELEZOBETONOVÝCH KONŠTRUKCIÍ A MOSTOV
(ACTIVE CORROSION PROTECTION OF REINFORCED CONCRETE STRUCTURES AND BRIDGES)

11:45 – 12:45 PARALLEL SESSION 2.1

(Room 2)

-  Klaus LANZINGER, Larry KRAUSER
PLASTIC DUCTS FOR SUSTAINABLE BRIDGE DESIGN: ENGINEERING TO EC2 AND FIB BULLETIN NO. 113
-  Faustyn RECHA
ESTIMATION OF CORROSION CURRENT DENSITY BASED ON THE DEFLECTION OF A REINFORCED CONCRETE ELEMENT, TAKING INTO ACCOUNT THE UNCERTAINTY OF THE MODEL PARAMETERS
-  Julian RAEDERSDORFF, David CLAIR, Alaa CHATEAUNEUF, Abdelhamid BOUCHAIR
ASSESSING THE BEHAVIOR OF ENGINEERING STRUCTURES: APPLICATION TO THE DALLEL STEEL BRIDGE
-  Khin Thuzar HTAY, Masrilayanti MASRILAYANTI, Jafri TANJUNG, Monita OLIVIA
ASSESSING SEISMIC RISK IN SAGAING CITY: A CASE STUDY OF INCREMENTAL DYNAMIC AND PUSHOVER ANALYSES ON MULTI-SPAN REINFORCED CONCRETE BRIDGE PIER

12:45 – 14:00 LUNCH

14:00 – 15:30 PARALLEL SESSION 1.2

(Room 1)

-  Yasmina BOUTAR, Pavel RYJÁČEK, Martina STARÝCHFOJTŮ, Vojtěch STANČÍK, Ludvík KOLPASKÝ
STRENGTHENING THE BEARING AREAS OF STEEL BRIDGES USING UHPC
-  Martin VILČ, Martina PAPESCHOVÁ, Michal KRAĽOVANEC
POVODŇOVÉ ŠKODY NA MOSTOCH V MORAVSKO-SLIEZSKOM KRAJI
(*FLOOD DAMAGE IN BRIDGES IN THE MORAVIAN-SILESIA REGION*)
-  Jakub ŠTĚPÁN, Pavel RYJÁČEK, Miloslav KEPKA Jr., Radovan MINICH
EXPERIMENTAL EVALUATION OF HFMI EFFECTIVENESS FOR WELD REPAIRS
-  Jozef KŠIŇAN, Pavel KOVAŘ, Adam HRBÁČEK
ZVÝŠENIE ŠMYKOVEJ ODOLNOSTI TRÁMOVÝCH A DOSKOVÝCH MOSTOV TECHNOLOGIOU DODATOČNE INŠTALOVANÝCH KOTEVNÝCH PRVKOV
(*INCREASING THE SHEAR RESISTANCE OF GIRDER AND DECK BRIDGES USING POST-INSTALLED ANCHORAGE TECHNOLOGY*)
-  Vladimír GELÁNYI, Juraj BOHUŠ, MATÚŠ UHLÍK
KOMPLEXNÁ REKONŠTRUKCIA MARCHEGGSKEHO VIADUKTU V ŽKM 37,910
(*COMPREHENSIVE RECONSTRUCTION OF THE MARCHEGG VIADUCT AT RAILWAY KILOMETER 37.910*)
-  Pavel BULEJKO, Rastislav SCHREIBER, Tomáš BRZÁK
VYBRANÉ STÁVAJÍCÍ MOSTY OPRAVENÉ CESTOU KOMPLETNÍ NÁHRADY NOVOU PREFABRIKOVANOU NK
(*SELECTED EXISTING BRIDGES RECONSTRUCTED THROUGH COMPLETE REPLACEMENT BY A NEW PREFABRICATED SUPERSTRUCTURE*)

14:00 – 15:30 PARALLEL SESSION 2.2

(Room 2)

-  Ladislav KLUSÁČEK, Adam SVOBODA
DISTRIBUTION OF SDT PROBES FOR DETECTING THE CONDITION OF PRESTRESSING CABLES
-  Ladislav KLUSÁČEK, Radim NEČAS, Jan KOLÁČEK, Kristína BEZRUCHOVÁ, Martina VAŠINOVÁ
CABLE-STAYED BRIDGES, DIAGNOSTIC SURVEY OF STAYS
-  Ladislav KLUSÁČEK, Radim NEČAS, Jan KOLÁČEK, Martina VAŠINOVÁ, Kristína BEZRUCHOVÁ
MONITORING AND DIAGNOSTICS OF BRIDGES USING OPERATIONAL MODAL ANALYSIS
-  Jakub GAŠPÁREK, Peter PAULÍK
VPLYV TECHNOLOGICKÝCH NEDOSTATKOV NA SÚČASNÝ STAV A KONTROLU SEGMENTOVÝCH DODATOČNE PREDPÄTÝCH MOSTOV
(*IMPACT OF TECHNOLOGICAL DEFICIENCIES ON THE CURRENT CONDITION AND INSPECTION OF SEGMENTAL POST-TENSIONED BRIDGES*)
-  Rudolf ÁROCH, Tomáš KLAS, Ján BRODNIANSKY
MONITORING OF CRACK FLANK MOVEMENT IN A STEEL ORTHOTROPIC DECK
-  Martin MORAVČÍK, Jakub KRAĽOVANEC, Radim ŠIFTA, Jakub SOMER, Michal ZAHURANEC
KONTINUÁLNY MONITORING PREDPÄTÝCH SEGMENTOVÝCH MOSTOV POMOCOU FBG SNÍMAČOV NOVEJ GENERÁCIE
(*CONTINUOUS MONITORING OF PRESTRESSED SEGMENTAL BRIDGES USING NEW GENERATION FBG SENSORS*)

15:30 – 16:00 COFFEE BREAK

16:00 – 17:30 PARALLEL SESSION 1.3

(Room 1)

-  Jaroslav HALVONIK, Viktor BORZOVIČ, Peter PAULÍK
REOPENING OF THE FOOTBRIDGE IN BRATISLAVA EXPOSED TO THE FIRE
-  Jan NOVÁČEK, Pavel KOLENČÍK, Jevhenij PYLYPENKO
PŘÍSTUP K OPRAVÁM MOSTŮ VÝHLEDOVĚ URČENÝCH K DEMOLICI NA DÁLNICI D1
(*APPROACH TO THE REPAIRS OF BRIDGES SCHEDULED FOR DEMOLITION ON THE D1 MOTORWAY*)
-  Jan L. VÍTEK
OPRAVY MOSTŮ S VYUŽITÍM UHPC
(*BRIDGE REPAIRS USING UHPC*)
-  Pavlína LAKATOSOVÁ, Lukáš BOBEK, Josef KVĚTOŇ
VYUŽITÍ METODY 3D CSFM PŘI REKONSTRUKCÍCH MOSTŮ
(*USE OF THE 3D CSFM METHOD IN BRIDGE RECONSTRUCTIONS*)
-  Filip BALLESTEROS:
REKONŠTRUKCIA ŽELEZNIČNÝCH MOSTOV CEZ RIEKU VÁH – ŽILINA
(*RECONSTRUCTION OF RAILWAY BRIDGES OVER THE VÁH RIVER – ŽILINA*)
-  Viktor BORZOVIČ, Jaroslav HALVONIK, Peter PAULÍK
EXPERIENCE IN MONITORING THE STATE OF THE LOAD-BEARING STRUCTURE OF SELECTED CONCRETE BRIDGES WITH THE AIM OF EXTENDING THEIR OPERATION

16:00 – 17:30 PARALLEL SESSION 2.3

(Room 2)

-  Jaroslav ODROBIŇÁK, Josef VIČAN, Richard HLINKA, Jozef PROKOP, František BAHLEDA
EXPERIMENTÁLNA A NUMERICKÁ ANALÝZA OHYBOVEJ ODOLNOSTI NITOVANÝCH PRIEREZOV
(*EXPERIMENTAL AND NUMERICAL ANALYSIS OF THE FLEXURAL RESISTANCE OF RIVETED SECTIONS*)
-  Ondrej KRIDLÁ, Peter KOTEŠ, Patrik KOTULA
EXPERIMENTÁLNO-NUMERICKÁ ANALÝZA KLENBOVÝCH MOSTOV
(*EXPERIMENTAL-NUMERICAL ANALYSIS OF ARCH BRIDGES*)
-  Zuzana HAŠŠOVÁ, Viktor BORZOVIČ, Matej JURGOŠ
THE EFFECT OF CORROSION OF PRESTRESSING REINFORCEMENT ON THE BEHAVIOUR OF CONCRETE BRIDGES
-  Milan HOLY, Ales MEZERA, David CITEK, Stanislav REHACEK
EVALUATION OF DIAGNOSTICS AND RECALCULATIONS OF SEVERAL CZECH MASONRY ARCH RAILWAY BRIDGES
-  Rudolf ÁROCH, Kristína DOUBKOVÁ, Ján BRODNIANSKY, Tomáš KLAS
ASSESSMENT OF ORTHOTROPIC DECK DETAILS OF ROAD BRIDGES FOR FATIGUE ACCORDING TO THE 2ND GENERATION EUROCODES
-  Stanislav REHACEK, David CITEK, Milan HOLY, Martin KRYSTOV, Adam CITEK, Ales MEZERA
ANALYSIS OF PRESTRESSED CONCRETE BRIDGES IN PRAGUE

19:00 – 23:00 CONFERENCE DINNER

Friday, November 7, 2025

09:00 – 10:00 POSTER SESSION

-  Jaroslav ODROBIŇÁK, Josef VIČAN, Richard HLINKA, Jozef PROKOP, Branislav VAVÁK
ON THE LOAD-CARRYING CAPACITY DETERMINATION OF RAILWAY BOX-GIRDER BRIDGES USING THE REDUCED STRESS METHOD.
-  Antonín LOKAJ, Pavel DOBEŠ, Marek JOHANIDES
POZNATKY Z PROHLÍDEK STÁVAJÍCÍCH DŘEVĚNÝCH MOSTŮ A LÁVEK V ČESKÉ REPUBLICE
(FINDINGS FROM INSPECTIONS OF EXISTING TIMBER BRIDGES AND FOOTBRIDGES IN THE CZECH REPUBLIC)
-  Miroslav VACEK, Vít KŘIVÝ, Kateřina KREISLOVÁ, Barbora KŘISTKOVÁ, Jaroslav ODROBIŇÁK
VLIV NÁVRHU DETAILŮ NA ŽIVOTNOST A SPOLEHLIVOST MOSTNÍCH KONSTRUKCÍ Z PATINUJÍCÍCH OCELÍ
(THE INFLUENCE OF DETAIL DESIGN ON THE SERVICE LIFE AND RELIABILITY OF BRIDGE STRUCTURES MADE OF WEATHERING STEEL)
-  Dušan ARSIĆ, Ružica NIKOLIĆ, Djordje IVKOVIĆ, Aleksandra ARSIĆ, Otakar BOKUVKA
IMPACT OF BUILDING STONE TYPE ON SELECTION OF MATERIALS FOR THE CONSTRUCTION MACHINERY PARTS.
-  Vlastimil MUROŇ, Ladislav KLUSÁČEK, Adam SVOBODA
EFFECT OF UNBONDED PRESTRESSING STEEL IN TERMS OF SERVICEABILITY.
-  Jakub STEJSKAL, Pavel RYJÁČEK, Tomáš PLACHÝ, Milan TALICH
DAMAGE DETECTION IN POWER TRANSMISSION TOWERS.
-  Tomáš KLIER, Magdaléna BOHÁČOVÁ, Tomáš MÍČKA
MONITORING STAVU PŘEDPÍNAČÍ VÝZTUŽE BARRANDOVSKÉHO MOSTU PŘES VLTAVU V PRAZE
(MONITORING OF THE CONDITION OF PRESTRESSED REINFORCEMENT OF THE BARRANDOV BRIDGE OVER THE VLTAVA RIVER IN PRAGUE)
-  José C. MATOS, Vanni NICOLETTI, Jakub KRAĽOVANEC, Hélder S. SOUSA, Maria J. MORAIS, Fabrizio GARA, Martin MORAVČÍK
CURRENT STATE AND CHALLENGES OF ROAD BRIDGES IN ITALY, PORTUGAL, AND SLOVAKIA.
-  Jozef GOCÁL, Josef VIČAN, Jaroslav ODROBIŇÁK, Richard HLINKA, František BAHLEDA
ANALYSIS OF BEHAVIOUR OF STEEL SLEEPERS ON A RAILWAY BRIDGE WITH MEMBER DECK.
-  Jakub KRAĽOVANEC, Martin MORAVČÍK
SKÚSENOSTI S URČOVANÍM REZIDUÁLNEHO PREDPÄTIA POMOCOU METÓD UVOĽNENIA NAPÄTIA
(EXPERIENCES WITH DETERMINING RESIDUAL PRESTRESS USING STRESS RELEASE METHODS)
-  Michal ZAHURANEC, Martin VAVRUŠ
VPLYV NÍZKEJ KVALITY SPRACOVANIA POVRCHOVÝCH VRSTIEV ŽELEZOBETÓNU A NÁSLEDNÝ VPLYV NA NEDEŠTRUKTÍVNE MERANIA A LOKALIZÁCIU BETONÁRSKEJ VÝSTUŽE
(THE IMPACT OF POOR QUALITY OF PROCESSING OF REINFORCED CONCRETE SURFACE LAYERS AND ITS IMPACT ON NON-DESTRUCTIVE MEASUREMENTS AND REINFORCEMENT LOCALIZATION)
-  Martin VAVRUŠ, Peter KOTEŠ, Michal ZAHURANEC, Matúš FARBÁK, Jakub HODUL, Klára KŘÍŽOVÁ, Radek HERMANN
VYSOKOPEVNOSTNÉ A UHPC BETÓNY
(HIGH-STRENGTH AND UHPC CONCRETES)

10:00 – 10:30 COFFEE BREAK

10:30 – 12:30 PANEL DISCUSSION

(Room 1)

 Panelists:

Karol DOBOSZ, AFRY CZ s.r.o., Divize Infrastruktura, vedúci tímu Žilina (*Infrastructure Division, Team Leader Žilina*)

Rastislav MAGURA, Železnice Slovenskej republiky, Odbor infraštruktúry, vedúci Oddelenia stavieb železničného spodku (*Railways of the Slovak Republic, Infrastructure Department, Head of Railway Substructure Construction Division*)

Róbert MACHALA, Samosprávne kraje Slovenska, predseda Sekcie cestnej infraštruktúry SK8 (*Self-Governing Regions of Slovakia, Chairman of the Road Infrastructure Section of SK8*)

Pavol Kováčik, Zväz stavebných podnikateľov Slovenska, prezident zväzu (*Association of Building Entrepreneurs of Slovakia, President of the Association*)

Miloš KRETH, Slovenská správa ciest, riaditeľ IVSC Banská Bystrica (*Slovak road administration, Director of the IVSC Banská Bystrica*)

Josef VIČAN, CSc., Žilinská univerzita v Žiline, profesor na Katedre stavebných konštrukcií a mostov (*University of Žilina, Professor at the Department of Structures and Bridges*)

 Moderator: **Roman NADÁNYI**

12:30 – 13:30 LUNCH

14:00 – 16:00 EXCURSION