

30TH INTERNATIONAL SYMPOSIUM BRIDGES 2025

24-25 April 2025, Courtyard by Marriott hotel, Brno

24. 4. 2025 – Thursday – 1st day of the symposium

08.00 Registration of participants
Foyer of the Marriott Hotel

PLATINUM 1+2+3

I. Bridge structures in the Czech Republic – construction, administration and maintenance

Chairmen: Wangler Dana, Ryjáček Pavel

09:00 – 09:45 Opening ceremony of the 30th International Symposium Bridges 2025 - presentation of honorary awards, Bridge Work 2023 **45 min.**

09:45 – 09:55 **Opening speech of the SFDI** **10 min.**
Ing. Zbyněk Hořelica , State Transport Infrastructure Fund

09:55 – 10:05 **Opening speech by the ŘSD** **10 min.**
Ing. Radek Mátl, Directorate of Roads and Motorways of the Czech Republic

10:05 – 10:10 **Opening speech by the SPS** **5 min.**
Ing. Jiří Nouza, Association of Construction Entrepreneurs

10:10 – 10:20 **Opening performance by the Slovak Railways** **10 min**
Railway Administration, state organization, General Directorate

10:20 – 10:25 **Opening speech by the Regional Council of Culture** **5 min.**

10:25 – 11:05 **Design and Construction of the High -Speed 2 Colne Valley Viaduct** 40 min.
George Kapos , Rendel Limited

11:05 – 11:35 **Under-spanned bridges : a suitable solution for efficiency and sustainability** 30 min.
Aurelius Muttoni , Emeritus of the School Polytechnique Federal University of Lausanne

11:35 – 11:45 **Railway Bridges 2023** 10 min.
Ing. Milan Čermák, Railway Administration, state organization, General Directorate

11:45 – 11:55 **Current condition of bridges of the Road and Highway Directorate of the Czech Republic** 10 min.
Ing. Jiří Hlavatý, Ph.D., Road and Highway Directorate of the Czech Republic

12:00 – 1:00 PM LUNCH 60 min.

13:00 – 14:00 **Panel discussion** 60 min.
Mgr. Martin Kupka, Ministry of Transport of the Czech Republic

Parallel section from 2:00 PM

PLATINUM 1+2+3

IV. Bridges in the Czech Republic – projects and implementations Chairmen: Slánský Bohuslav, Vítek Jan

at Ing . Ladislav Nový, PORR as

15:15 – 15:35 **Development of prestressed strip structures** 20 min.
Prof. Ing. Jiří Stráský, DSc ., Stráský, Hustý a partneři sro

15:35 – 15:55 **Reconstruction of the Dr. Edvard Beneš Bridge in Štěchovice** 20 min.
Ing. Aleš Meister , Ing. Tomáš Landa, Ing. Filip Řehoř, Ph.D., TUBES spol. s ro, PRAGOPROJEKT, as

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III. Bridges in the Czech Republic – science and research Chairmen: Hvizdal Václav, Volek Jan

14:00 – 14:20 **High-strength fine-grained weldable steels and their properties** 20 min.
Ing. Radim Pachlopník , Ing. Jakub Jurča, Ing. Michal Baštinský , Ing. Petr Eliáš, VÍTKOVICE STEEL, as

14:20 – 14:40 **Contradiction in designing the anchoring of noise barriers** 20 min.
Ing. Daniel Mikeš, Ing. Jan David, Hilti ČR spol. s ro

- 14:40 – 14:55 **Diagnostics and rectification of the bridge Y- 529.. 3 Mitas** **15 min.**
Prof. Ing. Pavel Ryjáček , Ph.D., Ing. Jan Pozdíšek , Ph.D., Faculty of Civil Engineering, Czech Technical University in Prague, Stráský, Hustý a partneři sro
- 14:55 – 15:15 **A new method for the design of 3D discontinuity areas** **20 min.**
Ing. Pavlína Lakatosová , Ph.D., Ing. Lukáš Bobek, Ing. Jaromír Kabeláč, Ph.D., Ing. Pavel Kaláb, Ph.D., IDEA StatiCa sro, BUT Faculty of Civil Engineering
- 15:15 – 15:30 **Monitoring the deformation of pillars during the extension of the structure** **15 min.**
Ing. Tomáš Klier, Ing. Magdaléna Boháčová, Ing. Tomáš Míčka, Pontex sro
- 15:30 – 15:45 **Use of drones and artificial intelligence in defect evaluation** **15 min.**
prof. Ing. Pavel Ryjáček , Ph.D., doc. Ing. Rudolf Urban, Ph.D., Milan Rollo , Martin Urban, Faculty of Civil Engineering, Czech Technical University in Prague, Rollo , AgentFly Technologies sro, Eyedea Recognition , sro
- 15:45 – 16:00 **Prestressed concrete – reinforcement protection** **15 min.**
Prof. Ing. Jan L. Vítek, CSc., FEng ., Faculty of Civil Engineering
- PLATINUM 1+2+3**
- II. Bridges in Brno Chairmen: Nováček Jan, Wangler Tomáš**
- 16:00 – 16:15 **Footbridge Velodrome in Brno** **15 min.**
Ing. Jan Nováček, Ph.D., Ing. Daniel Hibš , Prof. Ing. Jiří Stráský, DSc ., Stráský, Hustý and partners sro
- 16:15 – 16:35 **Reconstruction of the Otakar Ševčík Bridge over Ostravská Street in Brno** **20 min.**
Petr Novotný, Ing. Matej Čačaný , Ing. Erika Pijáčková , Ing. Jiří Zahrada, Ing. Ondřej Doubek, OHLA ŽS, as
- 16:35 – 16:50 **I/42 Brno VMO Rokytova – Mosty via Maloměřice marshalling yard** **15 min.**
Ing. Vladimír Engler , Ing. Jan Mukařovský, Ing. Ondřej Matoušek, Valbek , spol. sro
- 16:50 – 17:05 **I/42 Tomkovo náměstí and I/42 Rokytova** **15 min.**
Ing. Vojtěch Michálek, Martin Štáva, FIRESTA- Fišer , reconstruction, construction as, Metrostav DIZ sro
- 17:05 – 17:20 **Bridges over Tomkovo Square in Brno** **15 min.**
Ivo Ondříček, Ing. Ondřej Doubek, OHLA ŽS, as
- 17:20 – 17:40 **Implementation and conservation of bridges on the D49, section 4901 Hulín – Fryšták**
Ing. Michal Kunc, Skanska as

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III. Bridges in the Czech Republic – science and research Chairmen: Chmelík Jiří, Mařík Pavel

16:00 – 16:20 **Selected problems in the analysis and modeling of the retractable nose** 15 min.
Ing. Petr Nečesal, Ing. David Marván , Ing. Eliška Kafková, PIS Pechal , sro, Dlubal Software sro

16:20 – 16:35 **Risks of hidden degradation of wooden bridges and possibilities for increasing their service life** 20 min.
Ing. Lukáš Velebil, Ph.D., doc. Dr. Ing. Jakub Dolejš, Ing. Petr Ptáček, Ph.D., prof. Ing. Pavel Ryjáček , Ph.D., Faculty of Civil Engineering, Czech Technical University in Prague, UCEEB, Czech Technical University in Prague

16:35 – 16:50 **"Parametric modeling of large steel bridges for the purposes of production and technical documentation"** 15 min.
Ing. David Šedlbauer , Ph.D., ALLCONS Industry s.r.o

16:50 – 17:05 **Current knowledge on failures of seamless sprayed polymer waterproofing** 15 min.
Ing. Vítězslav Vacek, CSc., prof. Ing. Pavel Ryjáček , Ph.D., Ing. David Zeman, Klokner Institute, Czech Technical University in Prague

17:05 – 17:20 **Condition of bridges after the flood in the Jesenické region** 15 min.
Ing. Vladimír Puda , Stráský, Hustý and partners sro

17:20 – 17:40 **Sustainability in construction** 20 min.
Ing . Petr Martínek, Ing. David Svoboda, Ph.D., Ing. Jana Bauerová, Ph.D., Sika CZ, sro

25. 4. 2025 – Friday – 2nd day of the symposium

Opening of the 2nd day of the symposium

PLATINUM 1+2+3

IV. Bridges in the Czech Republic – projects and implementations Chairmen: Teichman Miroslav, Zbraněk Petr

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| 08:30 – 08:45 | Reconstruction of railway bridges under Vyšehrad | 15 min. |
| | <i>Ing. Jiří Krouský , Railway Administration</i> | |
| 08:45 – 09:00 | Reconstruction of the Podlešín Viaduct | 15 min. |
| | <i>Ing. Matěj Mikšovský, Ing. Daniel Novotný, TOP CON SERVIS sro</i> | |
| 09:00 – 09:20 | Railway arch bridge Červená – designer | 20 min. |
| | <i>Ing. Jakub Góringer , Ph.D., SUDOP PRAHA as</i> | |
| 09:20 – 09:40 | Construction of the Červená arch bridge | 20 min. |
| | <i>Ing. Petr Sýkora, Milan Špička, Roman Šimáček, Metrostav TBR as</i> | |
| 09:40 – 09:55 | Railway bridge over the D10 motorway | 15 min. |
| | <i>Ing. Ondřej Lojík , Ph.D., Ing. Tomáš Hejtmánek, TOP CON SERVIS sro, EUROVIA CZ as</i> | |
| 09:55 – 10:10 | Bridge at km 5.610 – Střelice–Tetčice | 15 min. |
| | <i>Ing. Radim Bílek, Ing. Radek Vévoda, FIRESTA-Fišer, reconstruction, construction as</i> | |
| 10:10 – 10:25 | Return tram loop – Brno Pisárky | 15 min. |
| | <i>Ing. Květoslav Rušar , Ing. Kryštof Poukar , Ing. Gabriela Šoukalová, Rušar mosty, sro</i> | |
| 10:25 – 10:40 | Reconstruction of the Branický Bridge | 15 min. |
| | <i>Ing. Jakub Tožička , Metrostav TBR as</i> | |
| 10:40 – 11:00 | Bridge on the D55 over the Moravia – Napajedla | 20 min. |
| | <i>Ing. Libor Kožík , Ing. Gabriela Šoukalová, Ondřej Kubíček, Petr Štasta , Dalibor Václavík, FIRESTA-Fišer, reconstruction, construction as</i> | |

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III. Bridges in the Czech Republic – science and research Chairmen: Březnická Pavla, Podlipný Václav

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| 08:30 – 08:45 | Modeling durability and corrosion in reinforced concrete structures | 15 min. |
| | <i>Jan Červenka, Jiří Rymeš , Mohamad Ahmad, Libor Jendele , Červenka Consulting sro</i> | |

- 08:45 – 09:05 **Indirect measurement of deflections during load tests** **20 min.**
Ing. Karel Karmazín, Ing. Tomáš Dejmek, Ing. Petra Chlopčíková , Ing. Petra Tichá Ph.D., Ing. Martin Krejcar, CSc., INSET sro
- 09:05 – 09:20 **Differential load test I73** **15 min.**
Ing. Jiří Zahrada, Ing. Igor Suza , Ing. Matej Čačany , Petr Novotný, OHLA ZS as
- 09:20 – 09:40 **Capacity increase of D5 – bridge expansion study** **20 min.**
Ing. Petr Komanec , Ing. Martin Blatský, Pontex sro
- 09:40 – 10:00 **Bridge Design Optimization Using BIM** **20 min.**
Ayhan Akray , M.Sc. , Ing. Martin Kovač, Allplan Česko s.r.o
- 10:00 – 10:15 **Innovative prefabricated elements from UHPC** **15 min.**
Ing. Jan Prchal, Ph.D., Ing. Jan Marek, Ing. Milan Holý, Ph.D., Ing. Jiří Prchlík, Ing. Adam Čítek , Ing. Jan Mourek Ph.D., KŠ PREFA sro, Klokner Institute, Czech Technical University in Prague
- 10:15 – 10:30 **Prediction of corrosion losses in patinated steels** **15 min.**
doc. Ing. Miroslav Sýkora, Ph.D., Ing. Kateřina Kreislová , Ph.D., doc. Ing. Jana Marková, Ph.D., KŠ PREFA sro, Klokner Institute, CTU
- 10:30 – 10:45 **Continuous monitoring of cast-in-place concrete structures** **15 min.**
Assoc. Prof. Ing. Lukáš Vráblík, Ph.D., FEng ., Ing. Radim Šifta , Ph.D., Czech Technical University in Prague, Faculty of Civil Engineering, NETWORK GROUP, sro
- 10:45 – 11:00 **Parametric modeling of VRT Velká Bíteš – Brno** **15 min.**
Ing. Jakub Zíma, Ing. Lukáš Procházka, Ing. Milan Kalný, Pontex , spol. s ro
- PLATINUM 1+2+3**
- IV. Bridges in the Czech Republic – projects and implementations – continued Chairmen:**
Dubšík Vladimír, Procházková Zuzana
- 11:00 – 11:20 **Bridge No. 105 – 048c in Týn nad Vltavou** **20 min.**
Ing. Vít Hoznour , Ing. Dávid Kuczík , Ing. Adam Grman , Ing. Lucia Miroškynová , Ing. Jozef Babuliak , Sagasta sro
- 11:20 – 11:30 **Bridge No. 105 – 048c in Týn nad Vltavou** **10 min.**
Bc. Marcel Návojský , Vojtěch Hvězda, Stavby mostů as
- 11:30 – 11:50 **Bridge reconstruction , no . 262-004** **20 min.**
Ing. Vít Šťastný, SaM silnice a mosty as

- 11:50 – 12:05 **Elbebrücke bridges Wittenberge and EÜ Oder** 15 min.
Ing. David Franc, PIS PECHAL, sro
- 12:05 – 12:20 **Kačerov Bridge** 15 min.
Ing. Petr Nehasil, Ing. Dalibor Gregor, Mott MacDonald, Excon
- 12:20 – 12:35 **Paradise Garden Bridge** 15 min.
Ing. Daniel Šindler, Ph.D., Ing. Tomáš Lindtner , Ing. Ondřej Ehrengbeger ; Josef Nejedlík , Pontex sro, STRABAG as
- 12:35 – 12:55 **Pedestrian bridge at ŽST Pardubice, main station .** 20 min.
Ing. Filip Andrš, CH&T Pardubice
- 12:55 – 13:15 **Unique technology for building a bridge on the D35 through Mikuleč** 20 min.
Ing. Jan Kabelka, MI Roads as
- 13:15 – 13:30 **Bridge construction technology on the Nové Paka bypass** 15 min.
Ing. Kamil Šeiner , PORR as

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IV. Bridges in the Czech Republic – projects and implementations – parallel section
 Chairmen: Kácal Petr, Hvizdal Václav

- 11:00 – 11:15 **Value engineering and steel sheet pile foundations** 20 min.
Daniel Neto , ArcelorMittal Sheet Peeling
- 11:15 – 11:30 **Network arch bridges – innovative solutions** 10 min.
Dr. Mike Tibolt , Ing. Wojciech Ochojski , ArcelorMittal Steligence
- 11:30 – 11:50 **OMO road safety systems – new guardrail** 20 min.
Ing. Jaroslav Číhal, Mgr. Roman Nepraš, STAVBY OMO sro
- 11:50 – 12:10 **Bridges on D4 – implementation in the form of PPP** 15 min.
Ing. Pavel Mařík, Milan Svoboda MBA, Stavby mostů as
- 12:10 – 12:30 **Bridge closures for high-speed lines** 15 min.
Dipl. -Ing. Tristan Mölter , DB Netz AG, Dipl. -Ing. Rainer Roos , Cirmon sro
- 12:30 – 12:45 **New bridge Monastery Hradiště nad Jizerou** 15 min.
Ing. Petr Kubica, Ondřej Kryštof, Ing. Jakub Sicha , Ing. Ondřej Doubek, OHLA ŽS, as
- 12:45 – 13:00 **Bridges on D35 Old Town – Mohelnice DSP BIM** 20 min.
Ing. Jiří Kašpárek, Ph.D., PUDIS as

