Monday 10th September

09:00 – 13:00    Hall: Zürich 2+3+4    Keynote Speakers
09:00 – 09:10 Opening speech (Prof. Frantisek Wald)
09:10 – 09:30 Long-Span Orthotropic Steel Deck Bridges of Turkey
             Nurdan M. Apaydin
09:30 – 09:50 Troja Bridge in Prague
             Vladimír Janata
09:50 – 10:10 Railway Road Bridge in Novi Sad – Steel tied network arches across the Danube
             Antonio Mora Munoz
10:10 – 10:30 The New Champlain Bridge
             Marwan Nader

10:30 – 11:00 Coffee break
11:00 – 11:20 New Stary most (Old bridge) across Danube river in Bratislava
             Petr Novotný
11:20 – 11:40 Railway network arch bridge – Oskar
             David Rose
11:40 – 12:00 Boomerang and Jungle pedestrian bridges in Oslo
             Gaute Mo
12:00 – 12:20 Maintenance free corrosion protection for composite bridges with hot-rolled sections
             Dennis Rademacher
12:20 – 12:40 Holistic approach to sustainability of bridges
             Ana Pascual Pastora
12:40 – 13:00 Rehabilitating project of unconventional suspension bridge
             Hermes Carvalho

13:00 – 14:00 Lunch

14:00 – 16:00 Hall: Zürich 2+3    Case studies
14:00 – 14:20 The particular challenges of expansion joint installation in steel bridges – Case studies
             David Jelinek
14:20 – 14:40 Design, construction and on-site fabrication of the Chenab Bridge using BIM
             Matti-Esko Järvenpää
14:40 – 15:00 Why Steel Bridges for Accelerated Bridge Construction: Steel Bridge Systems Best Suited
             for ABC
             Atoorod Azizinamini
15:00 – 15:20 Advanced solutions with hot-rolled sections for more economical bridges
             Wojciech Lorenc
15:20 – 15:40 Case study: Small steel ready-made bridges for rural and mountainous areas
             Boris Tasevski
15:40 – 16:00 Experience of duplex stainless steels as structural materials for bridges
             Andrew Backhouse
14:00 – 16:00  **Hall: Zürich 4**  Bridge maintenance

14:00 – 14:20  Challenging the Performance Myth of Inorganic Zinc Rich vs Organic Zinc Rich Primers and Activated Zinc Primers  
Raquel Morales
14:20 – 14:40  Lifetime extension of existing steel bridges  
Roberto Pavan
14:40 – 15:00  FEVE based coating systems: Protecting Steel Bridges for over 30 years  
Floris B. Kooistra
15:00 – 15:20  Retrofit against fatigue cracking at web penetration details with a slot in steel girder  
Chihiro Sakamoto
15:20 – 15:40  Problems and innovative solutions considering “open type” bridge deck structures in old steel riveted railway bridges  
Martina Nikolova
15:40 – 16:00  Lightweight solution for existing steel movable bridge retrofit and repair  
Roberto Pavan

16:00 – 16:20  Coffee break

16:20 – 17:40  **Hall: Zürich 2+3**  Pedestrian bridges

16:20 – 16:40  Modular system of steel bridges for pedestrian and bicycles  
Pavel Simon
16:40 – 17:00  Advanced layout of a steel bridge - Ullevaalskrysset footbridge  
Andri Gunnarrson
17:00 – 17:20  Väster pedestrian and cycle bridge  
Fernando Ibañez
17:20 – 17:40  Stovner Tower - accessible pedestrian walkway  
Birger Opgård

16:20 – 17:40  **Hall: Zürich 4**  Bridge maintenance

16:20 – 16:40  Failure analysis and repair assessment of a steel box girder bridge  
Maciej Kulpa
16:40 – 17:00  Reinforced structures type “Filler Beam” – advantages in reconstruction of bridge superstructures  
Lazar Georgiev
17:00 – 17:20  Zinc coatings for sustainable steel bridges  
Martin Gagné
17:20 – 17:40  Assessment of existing steel bridges: codes and standard  
Roberto Pavan

19:30 – 22:30  Symposium Dinner on Europé Boat on the Vltava River
### Tuesday 11th September

<table>
<thead>
<tr>
<th>Time</th>
<th>Hall: Zürich 2</th>
<th>Research and materials</th>
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<tbody>
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<td>Research and materials</td>
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<td>09:00 – 10:20</td>
<td>Experimental investigation on the bridge segments with transversally curved bottom flange</td>
<td>Filip Ljubinković</td>
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<td>09:20 – 10:40</td>
<td>Special heavy plates solutions for bridge building</td>
<td>Tobias Lehnert</td>
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<td>09:40 – 10:00</td>
<td>Choice of steel grade for Structural Applications – design for toughness requirements according Eurocodes</td>
<td>Riccardo Zanon</td>
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<td>10:00 – 10:20</td>
<td>Experimental evaluation of stiffened curved plates subjected to pure compression</td>
<td>Sara Piculin</td>
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<th>Time</th>
<th>Hall: Zürich 3</th>
<th>Refurbishment</th>
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<td>09:00 – 10:20</td>
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<td>09:00 – 10:20</td>
<td>Box-action giving new life-time to old steel bridges</td>
<td>Victor Vestman</td>
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<td>09:20 – 09:40</td>
<td>Experimental results of steel truss nodes strengthen by high strength concrete encasement</td>
<td>Stoyan Ivanov</td>
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<td>09:40 – 10:00</td>
<td>Using fracture mechanics principles in steel bridge renovation projects</td>
<td>Maarten Rikken</td>
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<td>10:00 – 10:20</td>
<td>The strengthening of a steel bridge with prestressed CFRP strips</td>
<td>Tomasz Siwowski</td>
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<th>Time</th>
<th>Hall: Zürich 4</th>
<th>Structural connections</th>
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<td>09:00 – 10:20</td>
<td>Research on shear and bolt connection of steel and composite bridge construction regarding corrosion protection</td>
<td>Svenja Holtkamp</td>
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<td>09:20 – 09:40</td>
<td>Advanced procedures for design of bolted connections</td>
<td>František Wald</td>
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<td>09:40 – 10:00</td>
<td>An Experimental Study of Friction Connection for Different Surface Treatments</td>
<td>Peter Collin</td>
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<td>10:00 – 10:20</td>
<td>Time-optimized assembly of bridge bearings</td>
<td>Luigi Di Gregorio</td>
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<tr>
<th>Time</th>
<th>Coffee break</th>
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<td>10:20 – 11:00</td>
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<th>Time</th>
<th>Hall: Zürich 2</th>
<th>Fabrication and construction</th>
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<td>11:00 – 12:20</td>
<td>Fabrication and construction of a hexagonal section steel arch bridge</td>
<td>Philippe Van Bogaert</td>
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<td>11:20 – 11:40</td>
<td>Galvanized Bridges in Japan</td>
<td>Murray Cook</td>
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<td>11:40 – 12:00</td>
<td>Influence of High Frequency Impact Treatment (HiFIT) on fatigue strength of welded joints of high-strength steel S700MC for bridges applications</td>
<td>Krzysztof Krasnowski</td>
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<td>12:00 – 12:20</td>
<td>New Modular Bridges Solutions</td>
<td>Antônio André</td>
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11:00 – 12:20 **Hall: Zürich 3**  
**Railway bridges**

11:00 – 11:20  
Composite bridge solutions in rolled shapes for small and medium span bridges – Review and future developments  
*Riccardo Zanon*

11:20 – 11:40  
Railway bridges - SUDOP PRAHA a.s.  
*Filip Kutina*

11:40 – 12:00  
Comparison of acoustic phenomena in the vicinity of two types of steel plate girder bridges  
*Lucjan Janas*

12:00 – 12:20  
New Athens-Thessaloniki high speed railway line: Detailed design and construction engineering of a steel tied-arch bridge  
*Georgios Mavrakis*

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11:00 – 12:20 **Hall: Zürich 4**  
**Bridge monitoring**

11:00 – 11:20  
Strain measurement of a bridge deck in order to evaluate the fatigue life of a steel bridge on the D1 highway in the Vysočina region  
*Stanislav Vejvoda*

11:20 – 11:40  
Open and standard-based method to link structural health monitoring data through a BrIM with a bridge FM system  
*Markku Kiviniemi*

11:40 – 12:00  
Potential modelling and verification of bridge superstructures behaviour  
*Ján Bujňák*

12:00 – 12:20  
Numerical simulation of rib distortion in orthotropic steel decks  
*Heng Fang*

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12:20 – 13:20  
**Lunch**

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13:20 – 15:20 **Hall: Zürich 2**  
**Highway bridges**

13:20 – 13:40  
Construction of the Angerbachtal bridge  
*Andreas Jäger-Cañás*

13:40 – 14:00  
Architecture of steel bridges  
*Jiří Stráský*

14:00 – 14:20  
Fatigue failure modes and fatigue resistance evaluation for structural system of orthotropic steel bridge deck  
*Jun Li*

14:20 – 14:40  
Barkarby Bridge  
*Manuel Biedma García*

14:40 – 15:00  
Norgesporten road bridge, the gateway to Norway  
*Gaute Mo*

15:00 – 15:20  
Design of vertically-curved members  
*Bo Dowswell*

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13:20 – 15:00 **Hall: Zürich 3**  
**Research and innovations**

13:20 – 13:40  
Investigation on stiffened panels subjected to biaxial compression  
*Nadine Maier*

13:40 – 14:00  
Investigation of displacements function in soil-steel bridge based on strain gauges measurements  
*Piotr Tomala*
14:00 – 14:20  Automation of evaluation of data measured on steel bridges, category detail of welded lamellas  
Stanislav Vejvoda

14:20 – 14:40  Models of thermal actions for steel and composite bridges based on monitoring  
Jana Marková

14:40 – 15:00  The impact of backfill quality on soil-steel composite bridge response under seismic excitation  
Tomasz Maleska

13:20 – 15:40  Hall: Zürich 4  Bridge monitoring + Historical bridges

13:20 – 13:40  Structural health monitoring for combined damage states  
Martin Butler

13:40 – 14:00  Fatigue performance evaluation of steel arch bridge based on experimental tests in the light of increased operating loads  
Mieszko Kużawa

14:00 – 14:20  Estimate of the steel bridges fatigue life by application of the fracture mechanics  
Ján Bujňák

14:20 – 14:40  The residual lifetime of steel bridges under the action of fatigue and corrosion effects  
Pavel Ryjáček

14:40 – 15:00  Comparison of FEM Analysis And Experimental Investigation for A 168m Long Steel Double Twin Truss Launching Gantry Subjected To Different Load And Support Conditions  
Lazar Georgiev

15:00 – 15:20  Factors Influencing the Design Life of Old Steel Bridges  
Nor Ashikin Muhamad Khairussaleh

15:20 – 15:40  Damage or change detection in a small scale model of steel bridge deck under static loading by extensometry  
Sidali Iglouli

15:40 – 16:30  Coffee break

16:30 – 18:30  5th European Steel Bridge Awards Ceremony

19:30 – 23:00  Gala Dinner

The program is subject to change.