



JOIN NOW



WELCOME TO IABSE SYMPOSIUM PRAGUE 2022!

The IABSE Symposium Prague 2022 was a three-day international structural engineering on-site conference that brought together students, designers, contractors, owners, and specialists from around the globe to network and exchange cutting-edge knowledge. It was IABSE's second time returning to Prague. The IABSE Symposium 1971 was held in this lovely city (then part of Czechoslovakia) under the leadership of Frantiek Faltus, one of IABSE's founding members, fifty years ago.

The Symposium was a success and presented and discussed the most recent advancements in bridge and structural engineering, with a focus on bridge structural engineering difficulties. It was a great opportunity for all structural engineers active in design, academia, construction, regulation, and renewal to reunite with fellow IABSE members and learn about their progress since and after the challenging days.

About The Organisers

The Czech Group of IABSE in cooperation with Czech Technical University in Prague are organising the IABSE Symposium Prague 2022.

Organising Committee

Pavel Ryjáček, Chair

Vladimir Cervenka

Milos F. Drdacky

Daniel Lemak

Milan Kalný

Jindrich Potucek

Roman Safar

Petr Tej

Jan Vitek

Dana Wangler

Scientific Committee

The Scientific Committee (SC) is chaired by Prof. František Wald, Czech Technical University in Prague, Department of Steel & Timber Structures. The SC consists of approx 70 expert members from all over the world and is elected by the Technical Committee of IABSE, chaired by Prof. Daia Zwicky, Fribourg University of Applied Sciences.

František Wald, *Czech Rep. (Chair)*

Jan Vitek, *Czech Rep. (Vice-Chair)*

Michal Jandera, *Czech Rep.*

Martina Eliášová, *Czech Rep.*

Petra Kamenská, *Czech Rep. (Secretary)*



THEMES AND TOPICS

The sub-themes are especially:

- Advanced models of structures and bridges
- Coming design standards
- Bridges and footbridges
- Advanced solutions for refurbishment and strengthening

- New and innovative materials, technologies and structural solutions
- Standards for refurbishment
- Building information modelling for life of structures

Also, traditional topics may be addressed, such as:

- Advanced structural analysis
- Architecture of structures
- Cold-formed and thin-walled members and structures
- Connections
- Damage repair and assessment of steel structures
- Dynamic behaviour and analysis
- Fatigue and fracture mechanics
- Fire engineering
- High strength, aluminium & stainless steel
- Innovative structural designs and applications
- Lightweight fibre reinforced plastic composite structures
- Large span and high-rise structures
- Off-shore structures
- Plate, shell and space structures
- Reliability, safety and risk analysis
- Robustness
- Seismic-resistant structures and blast loading
- Stability of glass and hybrid structures
- Steel-concrete composite members and structures
- Structural health monitoring
- Strengthening and retrofitting of structures and bridges
- Trusses, towers and masts
- Tubular constructions

Confirmed Special Sessions

- Bridge Management System and Building Information Modelling: Challenges and vision (chairs: Vanja Samec, Rade Hajdin, José Matos)
- New European Standardisation on Monitoring, Safety Assessment and Bridge Maintenance (chairs: Diego Lorenzo Allaix, Maria Pina Limongelli)
- The Storstrøm Bridge in Denmark - Challenges in Design and Construction (chairs: Martin Svendsen, Marco Raimondi)



- Structural Steel Connection Design - Challenges and Vision (chairs: Milan Veljkovic, Hitoshi Moriyama)
- Ultra-High-Performance Concrete is Ready to Revolutionize (chairs: Eugen Brühwiler, Petr Tej)
- Membrane Structures – Recent Achievements in Practice and Standardization (chairs: Jörg Uhlemann, Vipul Surana)
- Design Assisted by Finite Element Analysis (chairs László Dunai, Mohammad Ashour)

KEYNOTE SPEAKERS

Eugen Brühwiler, Swiss Federal Institute of Technology Lausanne (EPFL), *Switzerland*

'UHPFRC is Ready to Revolutionise Existing and New Structures'

Zdeněk P. Bažant, McCormick Institute, *USA*

'Fracture Size Effect in Concrete Design Codes'

Manfred Curbach, Technische Universität Dresden, *Germany*

'Carbon Concrete - Towards a Climate Neutral Building Industry'

László Dunai, Budapest University of Technology and Economics, *Hungary*

'Steel Structure Design Assisted by Finite Element Analysis'

Marco Di Prisco, Politecnico di Milano, *Italy*

'The Bridges in Italy: How to Manage the Infrastructural Heritage Guaranteeing Safety and Sustainability'

Franitsek Wald, Czech Technical University in Prague, *Czech Republic*

'Multilevel FEA and BIM for the Design of Structural Steel'

Conference Proceedings

IABSE Conference Reports are abstracted and indexed under Scopus.

<https://iabse.org/Prague2022-proceedings>



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