Assessment of Existing Structures

28th and 29th January 2021, Online (Zoom), Timezone CET


Day 1 (28th January 2021)

12:00-12:15 Welcome – Michael Faber
12:15-12:30 Short Opening Speech – Steve Denton
12:30-14:00 Session I: Practical Assessment – Requirements and Examples – Peter Tanner
Aurelio Muttoni - Lessons Learnt Assessing Structures in the Last 30 Years
Aleš Žnidarič - Monitoring Bridges Using Bridge Weigh-in-Motion Technology
Svend Engelund - Some Experiences with Proof Loading of Bridges
Pietro Croce - Rehabilitation and Seismic Upgrading of the Villafranca Bridge
Discussion – Chaired by Peter Tanner
14:00-14:15 Coffee break
14:15-15:45 Session II: Semi-Probabilistic Methods – Robby Caspeele
Miroslav Sykora/Dimitris Diamantidis – fib TG 3.1 Developments Concerning Semi-Probabilistic Format
Christian Glock - Determination of Characteristic Concrete Compressive Strength of Existing Structures According to EN 13791:2019
André Orcesi - Semi-Probabilistic Format for the Assessment of Existing Bridges: Concepts and Challenges
John Sørensen/Jochen Köhler - Potential and Challenges of the Design Value Approach
Discussion – Chaired by Robby Caspeele
15:45-16:00 Coffee break
16:00-18:00 Session III: Codification – Ton Vrouwenvelder
Paul Lüchinger - Standardization for Assessment of Existing Structures - The European Approach
Thomas Lang/Fabrizio Palmisano - Standardization for Assessment of Existing Structures - Evolution from TS to Eurocode
Paolo Franchin – Second Generation of Eurocode 8 Part 3 on Seismic Assessment and Retrofit of Existing Structures
Bruce Ellingwood/Jim Harris - Standardization for Assessment of Existing Structures in the USA
Discussion – Chaired by Ton Vrouwenvelder
**Day 2 (29th January 2021)**

09:00-10:30  Session IV: Probabilistic Methods – John Sørensen

Matthias Schubert - *A Showcase of a Reliability-Based Approach to an Existing Offshore Steel Structure*

Agnieszka Bigaj-van Vliet – *Probabilistic Principles Applied in fib Model Code 2020*

Daniel Straub/Max Teichgräber – *Thinking About Hidden Safety When Assessing Existing Structures*

Joan Hee Roldsgaard – *Capacity Upgrade of Existing Bridges by Probabilistic Methods*

Discussion – Chaired by John Sørensen

10:30-10:45  Coffee break

10:45-12:15  Session V: Updating and Monitoring – Celeste Viljoen

Helmut Wenzel - *Updating and Monitoring of Signature Structures*

Ana Mandić Ivanković – *Assessment of Bridges Based on Updated Information and Monitoring, Croatian Perspectives*

Alfred Strauss – *Novel Techniques Regarding the Assessment and Monitoring of Structures*

Sebastian Thöns – *What Makes the Value of Information?*

Discussion – Chaired by Celeste Viljoen

12:15-12:45  Workshop Conclusion and Discussion – Jochen Köhler

**Zoom Details**

**Zoom Day 1 - 28th January 2021**

Meeting ID: 979 6519 9028

**Zoom Day 2 - 29th January 2021**

Meeting ID: 977 2309 2357