

JCSS



Assessment of Existing Structures

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

Organizing committee: A. O'Connor, J. Köhler, R. Caspeele, J. Sørensen, D. Diamantidis, P. Tanner, R. Steenbergen, T. Vrouwenvelder, C. Viljoen, P. Formichi, T. Lang, F. Palmisano

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



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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