



1st Training School

organized within the project “ATCZ190 SAFEBRIDGE”

Date: 18.–19. 06. 2019 (Tuesday and/or Wednesday)
Place: Brno University of Technology, Faculty of Civil Engineering, room C421
Address: Veveří 331/95, 602 00 Brno, Czech Republic

Who is the course for? The course is addressed to Czech and Austrian strategic partners and invited experts in the field of verification of current condition and reliability of bridge structures. Partially, the course is also suitable for designers, bridge technicians and administrators.

Organization of the course. The course is organized free of charge in two language versions. On the first day (Tuesday), the course will be held in English and is therefore primarily addressed to Austrian participants. The next day (Wednesday) the course will be held in Czech. Participants will choose the language version (one participant can attend both language alternatives/days) in the attached Registration Form.

Time Schedule:

09:30–10:30 *Registration of participants*

10:35–11:30 Introduction, Philosophy of advanced nonlinear numerical assessment of bridge structures

- Possibilities of deterministic and stochastic analysis, advantages/disadvantages
- Examples of already calculated bridges

11:30–12:00 Statistical data – numbers and condition of bridges in Czech Republic and Austria

12:00–13:30 *Lunch*

13:30–14:45 Presentation of selected bridges for case studies, analysis in term of:

- Load and material resistance
- Geometry
- Static system
- Design methods
- Defects and deterioration

14:45–15:00 *Coffee break*

15:00–16:00 Actual codes summary, Bridge inspections and testing

- Non-destructive methods
- Loading test
- Tests of material parameters
- Cracks detection, laboratory tests for quantification of inputs for degradation models

16:00–16:30 Modeling of degradation processes

16:30–16:45 *Coffee break*

16:45–17:30 Basics of probabilistic recalculation – Examples

17:30–18:00 *Discussion, closing ceremony*

Please confirm your participation until 07. 06. 2019 by sending a completed Registration Form to safebridge@vut.cz and h87500_safebridge@boku.ac.at.