

Institute of
Structural Mechanics,
Faculty of
Civil Engineering,
Brno University of Technology (BUT)

AND

Dept. of Process, Energy and Environmental Technology, Faculty of Technology, Natural Sciences and Maritime Sciences, Univ. of South-Eastern Norway (USN)

Seminar

Bilateral cooperation between USN and BUT

Reliability and sustainability of structures

Day 1 – Lectures and panel discussion

Thursday 23. 05. 2024, 9:30

FCE BUT, Brno, Veveří 331/95, Room C421

Lecturers:

Hadi Amlashi	Some aspects on the use of reliability techniques in offshore wind turbine design
Lars Erik Øi	Cost, size, and structure optimization of CO2 absorber
	columns onshore and offshore
Mequanent M. Alamnie	Mechanistic asphalt pavement damage prediction and
	modelling for Sustainable roads
Drahomír Novák	Stochastic assessment of concrete structures: advanced
	FEM modelling and case studies
David Lehký	Determination of mechanical fracture parameters using
	machine learning-based inverse analysis
Lukáš Novák	Uncertainty quantification in structural mechanics: point
	estimates and surrogate models

Day 2 – Technical tours

Friday 24. 05. 2024, 9:30

FCE BUT, Brno, Veveří 331/95, Room C421

Visits:

- Laboratory of Institute of Physics of Materials, Czech Academy of Science Fatigue testing of materials
- Laboratory of Institute of Building Testing Fracture tests of quasi-brittle materials