

WORKSHOP ON COMPUTATIONAL FATIGUE ANALYSIS 2017

DESIGN OF FATIGUE OF WELDMENTS

MONDAY

NOVEMBER 13, 2017

08:00 - 08:50	Registration	
08:50 - 09:00	Jan Papuga	Welcome info
09:00 - 10:30	Zuheir Barsoum	Welding Technology Design of Welded Structures
10:30 - 11:00	Coffee break	
11:00 - 12:30	Zuheir Barsoum	Design of Welded Joints
12:30 - 13:30	Lunch	
13:30 - 15:00	Zuheir Barsoum	Design of Welded Joints
15:00 - 15:30	Coffee break	
15:30 - 17:00	Zuheir Barsoum	Design of Welded Plate Structures

TUESDAY

NOVEMBER 14, 2017

08:00 - 08:50	Registration	
08:50 - 09:00	Jan Papuga	Welcome info
09:00 - 09:45	Milan Růžička	History of fatigue and fatigue estimation methods Materials considerations Loading considerations
09:45 - 10:30	Jan Papuga	Stress-Life Based Fatigue, fatigue limit, factors influencing the S-N curve
10:30 - 11:00	Coffee break	
11:00 - 12:30	Jan Papuga	Factors Affecting Fatigue Life Strain-Life Based Fatigue Processing of Load Records An example of the workflow
12:30 - 13:30	Lunch	
13:30 - 15:00	Josef Jurenka	Fracture Mechanics and Crack Propagation
15:00 - 15:30	Coffee break	
15:30 - 17:00	Jan Papuga	Multiaxial Fatigue The Concept of FE Based Fatigue Analysis Available Software Applications Available Data Sources

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WEDNESDAY

NOVEMBER 15, 2017

08:00 - 08:50	Registration	
08:50 - 09:00	Jan Papuga	Welcome info
09:00 - 10:30	Zuheir Barsoum	Introduction
10:30 - 11:00	Coffee break	
11:00 - 12:30	Zuheir Barsoum	Introduction
12:30 - 13:30	Lunch	
13:30 - 15:00	Zuheir Barsoum	Fatigue assessment methods according to IIW (International Institute of Welding)
15:00 - 15:30	Coffee break	
15:30 - 17:00	Zuheir Barsoum	Fatigue assessment methods according to IIW (International Institute of Welding) Special Aspects
19:00 - ...	Informal social meeting	Brewery „Vinohradský pivovar“

THURSDAY

NOVEMBER 16, 2017

08:00 - 09:30	Zuheir Barsoum	Fatigue assessment methods
09:30 - 10:00	Coffee break	
10:00 - 11:30	Zuheir Barsoum	Weld improvement techniques Variable amplitude loading
11:30 - 12:30	Lunch	
12:30 - 14:00	Zuheir Barsoum	Weld Quality Systems Finite element modeling and fatigue analysis
14:00 - 14:30	Coffee break	
14:30 - 16:00	Zuheir Barsoum	Latest in development in fatigue design of welded structures – HFMI IIW recommendations and guidelines