

WORKSHOP ON COMPUTATIONAL FATIGUE ANALYSIS 2018

FKM-GUIDELINE TRAINING

MONDAY

NOVEMBER 26, 2018

08:00 - 08:50	Registration	
08:50 - 09:00	Jan Papuga	Welcome info
09:00 - 09:45	Milan Ruzicka	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 - 14:30	Josef Jurenka	Fracture Mechanics and Crack Propagation
14:30 - 15:00	Josef Jurenka	Introduction to Fatigue Prediction in Welds
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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TUESDAY

NOVEMBER 27, 2018

08:00 - 08:50	Registration	
08:50 - 09:00	Jan Papuga	Welcome info
09:00 - 10:30	Roland Rennert	General introduction into FKM-Guideline
10:30 - 11:00	Coffee break	
11:00 - 12:30	Roland Rennert	Static strength assessment for non-welded components
12:30 - 13:30	Lunch	
13:30 - 15:00	Roland Rennert	Fatigue strength assessment for non-welded components
15:00 - 15:30	Coffee break	
15:30 - 17:00	Roland Rennert	Fatigue strength assessment for non-welded components
20:00 – ...	Informal social meeting	BOWLING & Billiard Dejvice (www.bowling.cz)

WEDNESDAY

NOVEMBER 28, 2018

08:00 - 09:30	Roland Rennert	Assessment stresses for welded components Static strength assessment for welded components
09:30 - 10:00	Coffee break	
10:00 - 11:30	Roland Rennert	Fatigue strength assessment for welded components
11:30 - 12:30	Lunch	
12:30 - 14:00	Roland Rennert	Fatigue strength assessment based on measured stresses
14:00 - 14:30	Coffee break	
14:30 - 16:00	Roland Rennert	Fatigue strength assessment based on measured data