

COST Action 21155 Training School, University of Belgrade, 5th - 7th March 2024

Simulation methods and best practices for composites under high strain rates

	Tuesday 5th March			Wednesday 6th March			Thursday 7h March			
Time	Session Title	Lect	Time	Session Title	Lect		Time	Session Title	Lect	
09:00	Wellcome & Traning School Introc Introduction on Composites and the simulation methods used for composites	ND RV	09:00	Spatial discretisation (FEM, xFEM, Remeshing, Meshless methods, Hybrid)	TDV		09:00	High Velocity Impact; Elastic Wave propagation in composite materials including shock loading	ND	
10:45	Coffee Constitutive Modelling (fracture mech, damage and multiscale,strain rate dependency, dumping shock formation and propagation, modelling of healing)	IS DM	10:45 11:15	Coffee Low Veloicty Impact; Energy Absorption and Crashworthiness modelling	АН		10:45 11:15	Coffee Introduction to Model Verification and Validation, Standardisation and Certification by analysis	FS	
13:00 14:00	Lunch Modelling of Manufacturing Processes including proballistic	нѕ	13:00	Lunch			13:00	Lunch		
15:00	FEM Introduction Machine Learning and Artificial Intelligence applied	TG	14:00	LS Dyna Practical Tutorial Hands On Examples Introduction and Modelling of standard tests)	АНа		14:00	LS Dyna Practical Tutorial Hands On (Birds strike modelling and Axial collapse of Crash tubes)	AHa ND	
16:00	to modelling composites Leasson Learned/Discussion		16:00	Leasson Learned/Discussion			15:45	Leasson Learned/Discussion		
16:30	End of Day 1		16:30	End of Day 2			16:15	Concluding Remarks End of TS	RV	
19:00	Networking Dinner		19:30	Training School Dinner						

Lecturer										
RV	Prof Rade Vignjevic		AHa	Dr Andre Haufe		DM	Dr Dayou Ma			
ND	Dr Nenad Djordjevic		IS	Prof Ivica Smojver		TG	Dr Tijana Geroski			
АН	Dr Andreas Hornig		TdV	Dr Tom De Vuyst		HS	Dr Hatice Sas			
FS	Dr Fabio Santandrea									