



4a Technology Days 2024 - Mon 11.03.24 - Wed 13.03.24

Mon 11.03

Arrival

Tue 12.03

Get together Speeches Evening Event

8:30 am	Get together (Foyer)	
9:00 am	Welcome Speech	M. Schwab (4a engineering GmbH)
9:10 am	Considering the Local Anisotropy in the Simulation Process Chain for Short and Long Fiber Reinforced Thermoplastics	E. Reinhardt (Porsche AG)
9:45 am	Creation and Application Effect of MAT215 using IMPETUS for Reproducing Anisotropy in Fiber-reinforced Resin Parts	Nakagawa (Honda)
10:20 am	Alu cell can characterization and modelling	R. Tichy (AVL)
10:55 am	Coffee Break	
11:15 am	Simulation of manufacturing processes with respect to adhesive curing and residual stress development	Aubel (Dynamore/ANSYS)
11:50 am	In-situ characterization of all-cellulose and (-hybrid) composites during fatigue loading	Delp (TU Dortmund)
12:25 pm	Development of an automated process for material card calibration of point and surface joints for explicit FE simulations	Wirtz (DLR)
1:00 pm	Lunch Break	
2:30 pm	Component characterization as a basis for multiphysical simulation of lithium-ion batteries	J. Macher (PCCL)
3:05 pm	Battery modelling in LS-DYNA - an overview of current activities	Aubel (Dynamore/ANSYS)
3:40 pm	Mechanical characterization and automated macro-level modelling strategies of Li-ion Battery Cells	J. Vinkovic (4a engineering)
4:15 pm	Battbox - Battery Business Reloaded	J. Ecker (Fill)
4:50 pm	Comparative analysis of the impact damage detection determined by computed tomography and active thermography on CFRP	Gerdes (TU Dortmund)
6:00 pm	Evening Event	

Wed 13.03

Speeches Offcooling Linovis Presentation

8:00 am	Advanced analysis of bone microarchitecture and artificial polymer bones using active Thermography	M. Gschwandl (Ottronic)
8:35 am	Material and fracture modelling of aluminium components in crash analysis	Saito (JSOL)
9:10 am	Obtaining a triaxiality dependent failure curve for polymers just using tensile tests	S. Conde (Dynamore/ANSYS)
9:45 am	Modelling structural foams with VALIMAT® under mixed shear compressive loading in LS-DYNA/TBN	B. Hirschmann (4a engineering) or A. Farahani (esavant LLC)
10:20 am	Coffee Break	
10:35 am	A new approach for modelling point-shaped multi-sheet connections in LS-DYNA	Hübner (Dynamore/ANSYS)
11:10 am	Modelling of anisotropy of anisotropy in metals using the mesoscopic Viso-Plastic Self-Consistent (VPSC) approach	Kronsteiner (LKR)
11:45 am	Final words	M. Schwab (4a engineering GmbH)
11:55 pm	Lunch Break	
1:00 pm	Departure to 4a engineering Traboch for LINOVIS demo by BUS	
2:30 pm	LINOVIS product demonstration	
4:30 pm	Departure to Sporthotel Royer (Schladming) by BUS	