AGENDA



WG Meeting Manufacturing Process Simulation

"Modelling & Simulation of Thermoplastic Composites"

at CFK Nord Research Center (Ottenbecker Damm 12, 21684 Stade, Germany) on 22 October 2024, 9:00 – 16:00

Moderation:

- Prof. Dr.-ing. Mathias HARTMANN (Technische Hochschule Deggendorf)
- Dr. ir. Johannes Mattheus BALVERS (AIRBUS Helicopters)

On 22 October, the CU working group "Manufacturing Process Simulation" will entirely focus on the topic of material modelling and simulation of thermoplastic composites. Best practices from companies will be shown, research approaches will be presented and future developments of this field will be discussed.

This event will be held in English.

Agenda	
09:30	Welcome, News from Composites United e.V., Objectives of the Day Mathias HARTMANN & Jordy BALVERS Sophie NOESLER, Composites United e.V.
09:40	Presentation Ecosystem Stade Marc FETTE, CEO CTC GmbH
10:05	PRESENTATION TITLE Johannes TREIBER, Thermoplastic Application Engineering Manager at SYENSQO
10:30	Measurements, modelling, simulation, and validation for induction welding of UD TP-CFRP laminates Wouter VAN DEN BRINK, R&D Engineer Composites at NLR
10:55	Coffee Break
11:15	Challenges of Predicting Thermoplastics Lennart FINGER, Project Leader for Airframe and Cabin Structure at CTC
11:40	Analysis of deformation mechanisms in fabrics made of rCF staple fiber yarns for thermoset composite applications Thomas GEREKE, Research Group Leader Structure & Process Simulation at TU Dresden
12:05	Multi-physics simulation of ultrasonic welding: From frequency domain to time domain Jan Yorrick DIETRICH, Research Associate Modelling and Simulation at Faserinstitut Bremen (FIBRE)
12:30	Lunch Break
13:30	Status and potential of temperature simulation for thermoplastic fibre placement at AFPT Patrick KÖLZER, Managing Director at AFPT
13:55	PRESENTATION TITLE (REMOTE) Eduardo BAROCIO, Director of the Composites Additive Manufacturing and Simulation Consortium at the Purdue Composites Manufacturing and Simulation Center



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14:20	Discussion & Further Actions	
15:00	Guided Tour through CTC Facilities	
16:00	End of the Event	

