



CU Innovation Day "Tailored Structures"

on 19th October 2023

online at Leibniz-Institut für Polymerforschung Dresden e. V. (IPF)

The already 2nd edition of the successful CU Innovation Day "Tailored Structures" focuses on the lightweight design of fibre-reinforced composites (FRP) based on minimal material usage. Exploiting the anisotropic properties of unidirectional composites plays a key role in this respect. At the event, recent developments in the design, manufacture, and use of such ultra-lightweight structures will be presented and discussed with international partners from science and industry. This will form the basis for sustainable and resource-conserving product development of future lightweight FRP applications.

The event will be held in English language.



Agenda	
08:00	Get together, warm up, networking
08:30	Welcome note and introduction Thomas Heber, Composites United Axel Spickenheuer, Leibniz-Institut für Polymerforschung Dresden e. V. (IPF)
Session 1	Chair: Axel Spickenheuer, IPF
08:40	Development of CFRTP molding technology with Commingled Yarn and TFP Asami Nakai, Gifu University
09:00	The known TFP technology becomes TFP(hv) Dirk Feltin, Hightex Verstärkungsstrukturen GmbH
09:20	Development of Tailored Fiber Placement Technology Using the Hybrid Fiber consisted of Poly(xy-lylene sebacamide) PA-XD10 and Carbon Fiber
	Kaisuke Itou, Mitsubishi Gas Chemical (MGC)

AGENDA



09:40	Challenge of textile load introductions for sandwich panels and pultrusion profiles, Mareike Woestmann, Faserinstitut Bremen (FIBRE)
10:00	Coffee break, networking
Session 2	Chair: Adli Dimassi, FIBRE
10:30	Knowledge Transfer Partnership for UK TFP centres Ruth Curtney, National Composites Centre Bristol
10:50	Wet Fiber Placement: Deposition of in-line impregnated rovings for manufacturing of material-efficient composite structures Maximilian Eckrich, Leibniz-Institut für Verbundwerkstoffe GmbH
11:10	TFP@Institute of Aircraft Design: Review, current focus und future topics Johannes Baur, Stefan Carosella, Universität Stuttgart, Institut für Flugzeugbau (IFB)
11:30	Continuous Fibre Injection Process: the new technology for reinforcing 3D printed parts with carbon fibres Marc Crescenti, Reinforce3D
11:50	Lunch break, networking
11:50 Session 3	Lunch break, networking Chair: Stefan Carosella, IFB
Session 3	Chair: Stefan Carosella, IFB Laser assisted tape placement as a sustainable manufacturing process for lightweight composite structures
Session 3 13:20	Chair: Stefan Carosella, IFB Laser assisted tape placement as a sustainable manufacturing process for lightweight composite structures Paul M. Weaver, University of Limerick Efficient manufacturing of composite parts through TFP
Session 3 13:20 13:40	Chair: Stefan Carosella, IFB Laser assisted tape placement as a sustainable manufacturing process for lightweight composite structures Paul M. Weaver, University of Limerick Efficient manufacturing of composite parts through TFP Sebastian Bühler, BIONTEC Bionic Composite Technologies AG TFP: CAE software and manufacturing machines - latest innovations
Session 3 13:20 13:40 14:00	Chair: Stefan Carosella, IFB Laser assisted tape placement as a sustainable manufacturing process for lightweight composite structures Paul M. Weaver, University of Limerick Efficient manufacturing of composite parts through TFP Sebastian Bühler, BIONTEC Bionic Composite Technologies AG TFP: CAE software and manufacturing machines - latest innovations Martin Hoffmann, Filacon Automated manufacturing of variable-axial multi-matrix composites



Exhibition options in CU MixUp.world

How does the CU MixUp.world work? Participants can freely move around in a browser-based 3D world, visit your individual booth online and interact directly with you as well as with other guests via ad-hoc video conference.



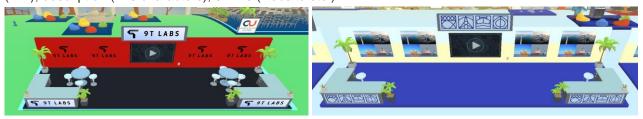
Small booth

Banner on top of the booth (4x1) / Landscape format image (16x9) with link to your website / Colours of wall and floor in your company colours / Choose table or counter



Large booth

3 Banners on top of the booth and counters (4x1) / Landscape format video (16x9) / 4 pictures (1x1, can be different) / Colours of wall and floor in your company colours / Welcome pop-up with company name, logo (1x1), description (140 characters), 3 links (website etc.)



For the detailed conditions, please refer to the registration tool on the event website. For each registered booth at least one participant is necessary for the booth support. Booth bookings without participants are not permitted.