CV

Dipl.-Ing. Jens Bachmann studied mechanical engineering at the Technical University of Braunschweig in the field of lightweight construction. After finishing his diploma thesis on the pultrusion of natural fibre reinforced foamed polymers with a reduced composite density, he started working as scientific assistant at the German Aerospace Centre (DLR), Institute of Composite Structures and Adaptive Systems, department of Multifunctional Materials. At DLR he first concentrated on the development of microwave assisted pultrusion of natural fibre reinforced polymer (NFRP) beams. Later, he worked on the improvement of fire properties of NFRP for application in aviation interior linings. Completely bio-based constituents have been used for interior linings in the DLR internal project Next Generation Train (NGT). During the EU project REFRESCO he was involved in the development of a regulatory framework for the use of structural new materials in railway structures. In order to evaluate the ecological aspects of composites he is working on Life Cycle Assessment (LCA). His current research interests are hybrid nonwoven from natural fibres and recycled carbon fibres. Since April 2016, he is the European coordinator of EU/China international collaboration project ECO-COMPASS*. This project follows the aim to improve reinforcement materials from natural and recycled fibres, bio-based epoxy resins and multifunctional materials to reduce the environmental impacts of FRP in aviation interior and secondary structures. An important and unique aspect of ECO-COMPASS is the collaboration of Chinese and European partners from industrial and research background.

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