

Composites United Innovation Day

Composites/Materials in the Sports Industry

Performance, Sustainability and Synergy Effects along the Value Chain



 When:
 Tuesday/Wednesday, 28./29. January 2025

 Where:
 VAUDE Sport GmbH Co. KG,

 Vaude-Straße 2, 88069 Tettnang, Germany

 https://maps.app.goo.gl/xePQe7ibidDqm9dQ8

Presented by: Composites United



Focus/Details

The working group "Composites/Materials in Sports" of Composites United invites you to the Initial Conference. We look forward to welcoming you to an inspiring and forward-looking exchange centered around the development and application of (composite) materials in various sports sectors.

Our working group is dedicated to researching and optimizing innovative materials, material combinations and production techniques. With a particular focus on performance, sustainability and synergy effects along the entire value chain, we pursue the goal of increasing the performance of sports equipment while fully utilizing ecological and economic benefits.

Sustainability is a central focus of our work. We analyze and improve the entire life cycle of sports products - from material procurement, production and use through to disposal and recycling. The use of bio-based and recyclable materials helps us to reduce our ecological footprint and promote the circular economy. We also develop production processes that consume less energy and resources.

The working group networks material manufacturers, sports equipment producers, scientists and users to exchange knowledge and experience and jointly develop innovative solutions. Through this close co-operation, we achieve efficiency gains and cost reductions that ultimately benefit all those involved.

Our working group takes an interdisciplinary approach and combines expertise from materials science, engineering, sports science and sustainability research. Through close collaboration between industry partners and research institutions, we act as a catalyst for progress and sustainability and strive to take the sports industry to a new level of ecological and economic efficiency.

At the Innovation Day we schedule a total of 4 Keynotes (20-25 minutes) and 28 presentations (10-12 minutes), each followed by a short and dynamic panel and Q&A session.

Additionally, we will have a informal dinner party, where all participants can network and discuss on various topics.



Confirmed Keynote Speakers

Dr. Antje von Dewitz CEO, VAUDE





Dr. Stefan Mohr R&D Manager Predevelopment, HEAD SPORT GmbH

Christian Gemperlein







Prof. Dr.-Ing. Iman Taha, Professorship "Sustainable Materials in Polymer Engineering", Hochschule Aalen

Quirin Niederauer, Hochschule Aalen

Lucas Krahnert, Fraunhofer IGCV



09:30	Welcome coffee
10:00	Welcome, news from CU Network and goal of the day Prof. DrIng. Marc Siebert, Leader AG «Sport»
10:10	Keynote: How can revenue be decoupled from emissions?Dr. Antje von Dewitz, CEO, VAUDE
10:40	Healable Composites: revolutionising durability and performance in sports equipment COMPPAIR Dr. Amaël Cohades, CEO and co-founder, CompPair Technologies
10:55	Play Naturally Smart - with natural fibre technical fabricsPatrick Vuagnat, Manager Sports & Leisure, Bcomp Ltd.
11:10	Coffee break
11:25	Sustainable Composites Materials Solutions Dr. Steffen Janetzko, Vice President – Head of Business Line Textiles, SGL TECHNOLOGIES GmbH
11:40	Sustainable and Efficient Manufacturing of Natural FiberComposites with Tailored Prepregs at the Example of a Canoe PaddleMathias Engelfried, CTO and co-founder, BEHtec
11:55	Mammut LOOPINSULATION - Transforming rope offcuts and recycled materials into cutting-edge cold weather protection Sophie Renot, Senior Innovation Manager / Helena Perez, Material Developer, Swississ Mammut Sports Group AG
12:10	Tour @Vaude
13:00	Lunch Break
14:30	Keynote: Overview on Sustainable Lightweight Engineering Trends in Sports Industry Modern Trends in long fiber reinforced plastics for sustainable Sporting Goods are presented. How to reduce the environmental impact of FRPs in lightweight engineering examples?Image: Comparison of the text of
15:00	Sustainable High-Performance Composites for Sports Applications
	Dr. Christian Garthaus, Managing Partner, herone GmbH
15:15	Riding old bottles – Recycled PET in Surf Industry
	Dominik Stapf, Senior Researcher, Institute for materials technology and plastics Processing (IWK), OST Rapperswil
15:30	Emerging material technologies for easy back-injection of composites: realizing affordable and circular high-performance components for sporting and consumer goods Dr. Christoph Schneeberger, Executive lead & co-founder Prof. em. Dr. Paolo Ermanni, Technology lead & co-founder, Antefil Composite Tech AG
15:45	Coffee break



16:00	Green Composites for Sporting Goods	esilboro
	DrIng. Jörg Kaufmann, CEO Silbaerg GmbH	SNOWBOARDS
16:15	Real-time process control for optimized composite manufacturing in the sports industry	Sens X PERT
	Dominik Riescher, Sales Engineer, NETZSCH Process Intelligence GmbH	
16:30	Cirub - Circular Rubber Material from Post Consumer Waste	
	Robert Maier, Managing Partner, Forward Engineering GmbH	
16:45	One step ahead, bio-based engineering compounds in sports applications	
	Erik Folz, Senior Market Development Manager, Lehmann&Voss&Co. KG	
17:00	A thermoplastic composite diving fin blade as a case study to	
	demonstrate the benefits of thermoplastic processing and the use of carbon fibres	
	Dr. Christos Karatzias, Senior Manager Composites & Mobility Group, MITSUI CHEMICALS EUROPE GMBH	Mitsui Chemicals Europe
17:15	Journey towards sustainable-based and lower CO2 footprint Carbon Fibre Composites	TEIJIN
	Gisbert Henke, Senior Account Manager, Industrial Sales, EMEA, Teijin Carbon Europe GmbH	TEUIN CARBON EUROPE GMBH
17:30	Outro – End of Day 1	
	Prof. DrIng. Marc Siebert, Leader AG «Sport»	

18:30 Dinner @ Hopfengut No. 20



Hopfengut 20 88069 Tettnang

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09:30	Welcome coffee	
10:00	Welcome back Prof. DrIng. Marc Siebert, Leader AG «Sport»	
10:10	Keynote: CFRP bicycle frames/parts Made in Europe instead of Asia - An experience report Christian Gemperlein, Founder & CEO, all ahead composites GmbH	BIKE AHEAD COMPOSITES
10:40	Pioneering Sustainable Innovation in Ski Technology	S/25
	Simon Jacomet, Founder & CEO, Jacomet Ski	JACOMET
10:55	Composite brake leaver stitched with recycled Carbon Fibres Sebastian Bühler, CTO, BIONTEC Bionic Composite Technologies AG	BIONTEC
11:10	Coffee break	
11:40	Thermoplastic Composites – the key to "Made in Europe"? Christian Braun, Managing Director, Ensinger Composites Schweiz GmbH	Ensinger o
11:55	Pumpfoils 100% Made in Europe Zeno Davatz, ONIX ENTERPRISES	DNIX TECHNOLDEV & DESIGN CENTER
12:10	Lightweight – Bicycle wheel production made in Germany for 30 years Borris Köpper, Vice President Murtfeldt Composites	s Lightweight
12:25	Maximum Efficiency in High-Tech Sports Equipment Manufacturing with AI-Driven Process Control: The Case of Black East Alexander Scherer, Symate GmbH	∞ _{symate}
12:40	Fully Automatable Combination of Winding and Forming for the Efficient Production of Spoked Wheels from Fiber-Reinforced Plastics DrIng. Marcel Bücker, Managing Director / Co-Founder, ONE-K WHEELS	- WHEELS
12:55	Fun is not a straight line, the complexity of a handlebar	
	Oliver Hecken, Institut für Forschung und Entwicklung von Sportgeräten (F	ES)
13:10	Lunch break	
14:30	Keynote: State of the art in the field of natural fiber-reinforced plastics – opportunities and challenges in the sports sector	S Hochschule Aalen
	Prof. DrIng Iman Taha, Quirin Niederauer, HS Aalen Lucas Krahnert, Fraunhofer IGCV	Fraunhofer
15:00	Discontinuous fibre architectures: Enabler for sustainable composites?	n w
	DrIng. Julian Kupski, Prof. DrIng. Christian Brauner, FHNW	
15:15	Revolutionizing Sports Gear with Automated Fiber Patch Placement DrIng. Renato Bezerra, Kevin Scheiterlein, Fraunhofer IGCV	Fraunhofer
15:30	Circular-ready and biobased materials for the sports industry Anna Krüger, Fraunhofer ICT	Fraunhofer

An event of the CU working group WG Composites/Materials in Sports, organized by Composites United Switzerland, BW and MAI Carbon



15:45	Use of rCF fiber materials in sports goods industry to build up a circular economy Martin Zießler, KVB non-profit GmbH	
16:00	Coffee break	
16:15	Sustainable Manufacturing of a Composite Skateboard Using a Near- Net Shape Automated Process Chain Gerd Falk / Benjamin Grisin, Institute of Aircraft Design - University of Stuttgart	University of Stuttgar Institute of Aircraft Design
16:30	Development of extreme lightweight carbon sport parts: from bow riser to sledge DrIng. Kai Uhlig, IPF - Leibniz-Institut für Polymerforschung Dresden e. V.	Leibniz-Institut für Polymerforschung Dresden
16:45	A Sonic View into Quality: Examples for Air-coupled Ultrasonic Testin	ng
	Dr. Yury Golitsyn, Division Manager NDT, Forschungszentrum Ultraschall gGmbH (Research Center for Ultrasonics)	Forschungszentru Ultraschall
17:00	EcoBoard – Development of a fully ecological compact board	-
	Prof. Dr. Ing. Stefan Schlichter	ITTA Institut für Textiltechnik
	Institut für Textiltechnik Augsburg gemeinnützige gGmbH	Augsburg gGmbH
17:15	Outro – End of Event	
	Prof. DrIng. Marc Siebert, Leader AG «Sport»	
	End of Innovation Day	



Registration Types and Rates

Participation fee is 590* Euro, 290* Euro for CU-members and includes.

2 days at the event, including food and beverage on site

1 dinner (Tuesday evening)

Please note that the available number of participants is strictly limited. Don't miss your spot and register soon.

For all further details, the up-to-date agenda and to register, please use this link.

Theo Sandu, theo.sandu@composites-united.com

* Speaker/Presenter get 50% discount on participation fee. All prices are net prices, excl. tax



Parking Situation

The car parks at Vaude itself are very limited. Visitors are therefore requested to use the two car parks at

Vaude Outlet Obereisenbach, Siggenweiler Str. 25, 88069 Tettnang, or

Freibad Obereisenbach, An der Schule 9, 88069 Tettnang

Both are about 300-350 meters from the center.







- Sgl carbon





Lightweight













Ensinger 🔗







University of Stuttgar











