



## Global Lightweight Summit

20<sup>th</sup> October 2022 / Filderhalle Leinfelden-Echterdingen, Germany

**Lightweight technology through digitisation – what benefit  
is there for climate change?**





## Facts & Figures about the Global Lightweight Summit



More than

60%

are interested in cooperation



1.97

overall rating



Digital networking opportunities on the online event platform

93%

of participants want to come back



Over

1M

persons reached (via the press coverage)





## 6 sentences from ...

... Dr. Wolfgang Seeliger,  
CEO Leichtbau BW GmbH



### **The Global Lightweight Summit ...**

... offers you concentrated know-how on the latest technical developments and trends in lightweight technology.

### **The practical lightweight technology sessions ...**

... allow you to tailor your individual learning to specific topics.

### **Take advantage of the breaks ...**

... to make valuable business contacts and establish your international network.

### **The international base of participants ...**

... invites you to identify opportunities on the global lightweight technology markets.

### **At the keynote speeches ...**

... you will learn why now is the right time to consider platform economies.



### **After the specialist presentations ...**

... we will end the day with you, a cold drink, and good food.



# Program

Plenary

- 9.00 Registration**
- 9.30 Welcome**  
Dr. Wolfgang Seeliger, Leichtbau BW GmbH
- 9.45 Greetings (video message)**  
Minister Dr. Nicole Hoffmeister-Kraut,  
Ministry for Economics, Employment and  
Tourism of Baden-Württemberg
- 09.50 AI and platforms – How technology and  
business model innovation are  
revolutionising manufacturing**  
Dr. Farbod Nezami, InstaWerk GmbH
- 10.30 Produce metal 3D printed components  
with high-efficiency, using data from the  
AddiMap platform**  
Gregor Graf, Rosswag GmbH
- 11.00 Digitisation as an enabler for resource  
efficiency and climate protection**  
Thilo Schäfer, Institut der deutschen  
Wirtschaft Köln e. V.
- 11.30 ELA - ELCA Cooperation**
- 12.00 Lunch break**  
  English Translation

13:00 – 14:30 Sessions 1–3

## Session 1

**Bio-based fibre composite materials – From renewable material to digital twin**

- ▼ **TBA**  
Prof. Dr.-Ing. Nicole Stricker,  
Aalen University
- ▼ **Continuous parallel development chains of bio-based polymers for fibre materials**  
Frank Huberth,  
Fraunhofer IWM
- ▼ **Biocarbon fibres**  
Dr. Erik Frank, DITF
- ▼ **Process simulation and digitisation of free-form winding of CF and NF fibres for architecture applications**  
Sebastian Hügler, IFB University Stuttgart

powered by  
AFBW e.V., Composites United e. V.

 In German

## Session 2

**Digitisation as a bridge between lightweight technology products and production**

- ▼ **Optimizing the product development cycle for composite components with the help of finite element analysis**  
Tenglun Sui, Kasaero GmbH
- ▼ **A virtual process chain as the basis for digital product development cycles: Potentials and challenges**  
Dr. Dominik Dörr,  
SIMUTENCE GmbH
- ▼ **Sustainability through AI-based component optimisation**  
Jonas Steiling, Optimate GmbH

powered by  
Leichtbauzentrum Baden-Württemberg e. V.

 In German

## Session 3

**European Lightweight Solutions – Innovations from the ELA regions**

- ▼ **Innovative digital concepts for sustainable light metal processing**  
Dr. Carina Schlögl, LKR Light Metals Technologies Ranshofen GmbH/AIT Austrian Institute of Technology
- ▼ **An innovative CFRP Design for an ultra-light Landing Gear**  
Taylan Toprak, Connova AG
- ▼ **TBA**  
Sjef van Bruegel,  
Pontis Engineering

powered by  
European Lightweight Association

 In English



14:30 Coffee break

**Session 4**

**Matrix production in the aerospace industry – sustainable production of high-precision parts**

- ▼ **Welcome**  
Forum Luft- und Raumfahrt Baden-Württemberg e.V.
- ▼ **Matrix production – Approaches, methods and examples.**  
Martin Schleef, Fraunhofer IPA
- ▼ **Conversion of a mid-sized aerospace business from manufacturing to series production based on the example of Rigo GmbH**  
Angel Canadas, Rigo GmbH
- ▼ **Sustainability in the production process in the aerospace and aviation industry**  
Michael Höckh, Höckh Metall-Reinigungsanlagen GmbH

powered by  
Forum Luft- und Raumfahrt  
Baden-Württemberg e.V.

 In German

**Session 5**

**Calculating the product carbon footprint – Opportunities, challenges, and implementation**

- ▼ **Product Carbon Footprint – Opportunities, challenges, and best practices in machine and system engineering**  
Hannah Lena Harlos, VDMA e. V.
- ▼ **Digital methods: Basis for material efficiency and sustainability**  
Dr. Michael Oliver Kobes, Schaeffler Technologies AG & Co. KG
- ▼ **TBA**  
N/A
- ▼ **Plenary discussion**

powered by  
VDMA e. V.

 In German

**Session 6**

**Canada's AM challenges & AI solutions**

Additive manufacturing and lightweight technology are inseparable – because anyone who deals with additive processes only applies material where it is required for the function. Material efficiency therefore pays off twice when it comes to additive manufacturing: lower costs, faster printing. This session will present the status quo of the additive manufacturing landscape in Canada as well as innovative solutions in the field of artificial intelligence.

powered by  
Konsulat von Kanada,  
NGEN, Canada Makes

 In English

15:00 – 16:30 Sessions 4–6

16:30 Coffee break

17:00 **Wrap-up session with all session leaders**   English Translation

18:00 **Get-together**



## Network

### Partners



### Media partners



**LEICHTBAUWELT**  
INSPIRATION FÜR IHREN FORTSCHRITT





## DIGITAL.SHOWROOM

### Discover lightweight technology innovations from Baden-Württemberg

In our **DIGITAL.SHOWROOM** we present innovative products and services to you from lightweight technology companies in Baden-Württemberg. Contact companies directly by exchanging virtual business cards. [www.leichtbau-showroom.de/en](http://www.leichtbau-showroom.de/en)

#### Your benefits



##### Establishing business contacts

Find new business partners, suppliers or customers.



##### Easy and quick contact options

You can contact companies directly by exchanging virtual business cards.



##### A bullseye, every time

The categories ensure you find exactly the product you are looking for or the company that can help you move forward.



##### Inspiration from new trends in lightweight technology

Keep pace with the latest trends, and never miss an innovation.

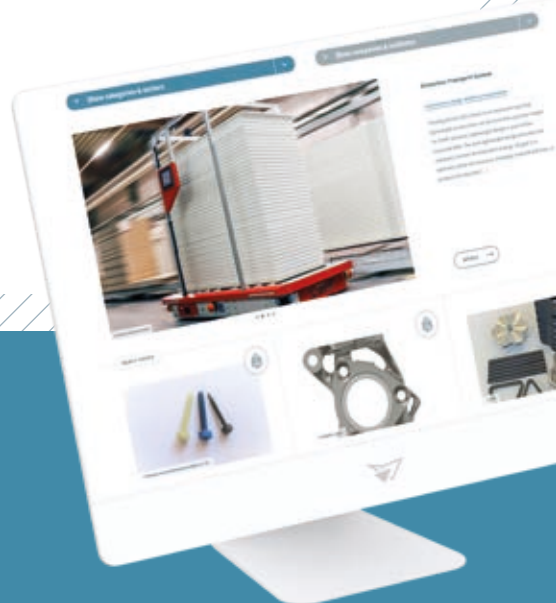


##### Always available

Open whenever you need it – our showroom never closes.

#### Come in

and experience lightweight technology from Baden-Württemberg!  
[www.leichtbau-showroom.de/en](http://www.leichtbau-showroom.de/en)



## General information

### Registration

**Conference ticket: 150,00 €\***

**Conference ticket for students: 100,00 €\***

The participation fee includes lunch, conference drinks, access to the digital event platform with presentation download area, and participation in the get-together.

\*incl. VAT

Register now: [www.lightweight-techday.com](http://www.lightweight-techday.com)

**Registration ends on 10<sup>th</sup> October 2022**

### Directions

The Filderhalle is easily accessed by the **A8 motorway**, and is just 5km from the Stuttgart airport. If you would like to travel by public transportation, the **Leinfelden train station** is just a 4 minute walk away. It can be accessed by the **S2** and **S3**, as well as the **U5** and several **bus lines**. If you would like to travel by passenger car, you can park in the **Filderhalle parking garage** for a fee.

#### ▼ Filderhalle Conference and Congress Centre

**Bahnhofstraße 61, 70771 Leinfelden-Echterdingen, Germany**

### Accommodation

You have a longer journey and need a suitable place to stay on site? Then contact us and ask for our hotel contingent.

Event organizer



**Leichtbau BW GmbH**

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