

# Lighten Up!

The 2021 Lightweight Conference



AGENDA | 17th & 18th of June

**Join us for an exclusive, interactive 2-day event.  
Explore state-of-the-art approaches and network across  
industries!**

- Lightweight Methodologies
- Lightweight Technologies
- Lightweight Processes
- Tool-supported Lightweight Design

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NMIS  
National Manufacturing  
Institute Scotland

**KOLLER**

08:30 – 09:00	Check In	Forum
09:00 – 09:25	<b>Welcome Address</b>  Hans-Peter Dahm, Managing Director, TGM Lightweight Solutions GmbH & Enrico Santarato, Automobili Lamborghini S.p.A, Platinum Sponsor	Forum
09:25 – 09:45	Active Networking	Forum
09:45 – 10:30	<b>Weight savings through system modeling analysis of a combined (bonnet &amp; fender) structure of a high performance sports car</b> Followed by Q&A  TGM Lightweight Solutions GmbH Speaker: <b>Julius Winkler</b>	Room 1
10:30 – 10:40	<b>Break</b>	
10:40 – 11:25	<b>Enabling lightweight solutions – from concept to shopfloor</b> Followed by Q&A – Silver Sponsor  NMIS – National Manufacturing Institute of Scotland Speaker: <b>Iain Bomphray</b>	Room 2
	<b>Optimization of axle load distribution in a tram vehicle by using the WDT software tool</b> Followed by Q&A  TGM Lightweight Solutions GmbH Speakers: <b>Björn Voigt / Ulrich Schmall / Florian Gabel</b>	Room 3
11:25 – 11:50	Active Networking	Forum
11:50 – 12:35	<b>System-oriented Lightweight Design – a methodical engineering approach combining mass, cost &amp; CO<sub>2</sub> emissions</b> Followed by Q&A  Karlsruher Institute of Technology Speaker: <b>Dipl. Ing. Markus Spadinger</b>	Room 3

**Simulation, conception and tool development  
for a lightweight functional support via  
one-shot-sandwich-process**

Room 2

Followed by Q&A – Silver Sponsor

Koller Group / Kunststoffzentrum Leipzig / SIMCON

Speakers: **Ralf Utescheny, Dr. Mathias Kliem, Max Mades**

12:35 – 14:00

**Lunch**

Virtual Food Court

*Bring your own food and meet speakers, sponsors and others*

14:00 – 14:45

**New concept of a carbon-heat exchanger, design  
and application in high performance vehicles**

Room 1

Followed by Q&A

Fraunhofer-Institut für Angewandte Polymerforschung IAP

Speaker: **Marcello Ambrosio**

14:50 – 15:10

Active Networking

Forum

15:10 – 15:25

**Break**

15:25 – 16:15

**Interactive Industry Exchange**

Room 1

Automotive, Aerospace, Rail

Room 2

Room 3

16:15 – 16:25

**Break**

16:25 – 17:10

**Interacting MBSE and Simulation with Mass  
Properties Standards, for Margin Control in the  
Aerospace Sector**

Room 1

Followed by Q&A

NASA Langley Research Center

Speaker: **Jeffrey Cerro**

17:15 – 17:25

**Wrap-Up Day 1**

Forum

17:30 – 18:30

**Fireside Lounge**

Forum





08:30 – 09:00	Check-In	Forum
09:00 – 09:15	<b>Welcome</b>	Forum
09:15 – 10:00	<b>Lightweight construction in an environment of cost pressure and emission limits</b> Followed by Q&A  Volkswagen AG Speaker: <b>Philipp Marcks</b>	Room 1
10:00 – 10:45	<b>Topology Optimization and sensitivity study on essential structural parts of a double seat for high speed train / bus</b> Followed by Q&A  TGM Lightweight Solutions GmbH Speaker: <b>Micha Clauß</b>	Room 2
	<b>Carbon Fiber in thermoplastic composites – From material development to engineering solutions</b> Followed by Q&A  ARRK Engineering GmbH / Mitsui Chemicals Europe GmbH Speakers: <b>Olaf Hartmann (ARRK) &amp; Christos Karatzias (Mitsui)</b>	Room 3
10:45 – 10:55	<b>Break</b>	
10:55 – 11:40	<b>Lightweight Design for BiW Structures, as used in Motorsport and Supersport cars</b> Followed by Q&A – Platinum Sponsor  Lamborghini S.p.A. Speaker: <b>Stefan Klaus Nothdurfter</b>	Room 1
11:45 – 12:30	<b>Optimized Carbon Fiber Profiles for Maximum Side Impact Protection</b> Followed by Q&A  Carbon Truck & Trailer GmbH Speaker: <b>Gerret Kalkoffen</b>	Room 1

12:00 – 13:30

**Lunch Break**

Virtual Food Court

13:30 – 14:20

**Off the beaten track – how the development of lightweight components starts at the desk and doesn't end at the dispatch area**

Room 2

Followed by Q&A

Realize Engineering Dresden GmbH

Speaker: **Dr. Andreas Freund**

**Additive Manufacturing of serial parts for industrial application in various industries**

Room 3

Followed by Q&A

Materialise GmbH

Speaker: **Philipp Buchholz**

14:20 – 14:30

**Break**

14:30 – 15:15

**Improved weight forecasting and derivation of weight saving opportunities in early development phases**

Room 1

Followed by Q&A

TGM Lightweight Solutions GmbH

Speaker: **Hans Peter Dahm**

15:15 – 16:00

**Interactive Expert Exchange**

Room 1

Room 2

Mass, CO<sub>2</sub>, Cost

Room 3

16:00 – 16:30

**Wrap-Up & Close**

Forum

