

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

REGISTER ON WWW.EVENTBRITE.COM "LIGHTEN UP"

PLATINUM SPONSOR



SILVER SPONSORS

NMIS
National Manufacturing
Institute Scotland

KOLLER

08:30 - 09:00	Check In	Forum
09:00 - 09:25	Welcome Address 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	Weight savings through system modeling analysis of a combined (bonnet & fender) structure of a high performance sports car Followed by Q&A TGM Lightweight Solutions GmbH Speaker: Julius Winkler	Room 1
10:30 - 10:40	Break	
10:40 - 11:25	Enabling lightweight solutions – from concept to shopfloor Followed by Q&A – Silver Sponsor NMIS – National Manufacturing Institute of Scotland Speaker: Iain Bomphray	Room 2
	Optimization of axle load distribution in a tram vehicle by using the WDT software tool Followed by Q&A TGM Lightweight Solutions GmbH Speakers: Björn Voigt / Ulrich Schmall / Florian Gabel	Room 3
11:25 - 11:50	Active Networking	Forum
11:50 - 12:35	System-oriented Lightweight Design – a methodical engineering approach combining mass, cost & CO₂ emissions Followed by Q&A Karlsruher Institute of Technology Speaker: Dipl. Ing. Markus Spadinger	Room 3

**Simulation, conception and tool development
for a lightweight functional support via
one-shot-sandwich-process**
Followed by Q&A – Silver Sponsor

Room 2

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

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

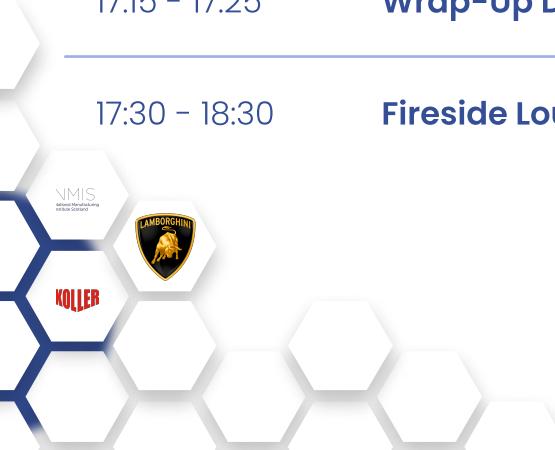
Wrap-Up Day 1

Forum

17:30 – 18:30

Fireside Lounge

Forum



AGENDA | DAY 2

08:30 – 09:00 Check-In Forum

09:00 – 09:15 **Welcome** Forum

09:15 – 10:00 **Lightweight construction in an environment of cost pressure and emission limits** Room 1
Followed by Q&A

Volkswagen AG
Speaker: **Philipp Marcks**

10:00 – 10:45 **Topology Optimization and sensitivity study on essential structural parts of a double seat for high speed train / bus** Room 2
Followed by Q&A

TGM Lightweight Solutions GmbH
Speaker: **Micha Clauß**

Room 3
Carbon Fiber in thermoplastic composites – From material development to engineering solutions
Followed by Q&A

ARRK Engineering GmbH / Mitsui Chemicals Europe GmbH
Speakers: **Olaf Hartmann (ARRK) & Christos Karatzias (Mitsui)**

10:45 – 10:55

Break

10:55 – 11:40 **Lightweight Design for BiW Structures, as used in Motorsport and Supersport cars** Room 1

Followed by Q&A – Platinum Sponsor

Lamborghini S.p.A.
Speaker: **Stefan Klaus Nothdurfter**

11:45 – 12:30 **Optimized Carbon Fiber Profiles for Maximum Side Impact Protection** Room 1

Followed by Q&A

Carbon Truck & Trailer GmbH
Speaker: **Gerret Kalkoffen**

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

Followed by Q&A

Realize Engineering Dresden GmbH

Speaker: **Dr. Andreas Freund**

Room 2

Additive Manufacturing of serial parts for industrial application in various industries

Followed by Q&A

Materialise GmbH

Speaker: **Philipp Buchholz**

Room 3

14:20 – 14:30

Break

14:30 – 15:15

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

Followed by Q&A

TGM Lightweight Solutions GmbH

Speaker: **Hans Peter Dahm**

Room 1

15:15 – 16:00

Interactive Expert Exchange

Mass, CO₂, Cost

Room 1

Room 2

Room 3

16:00 – 16:30

Wrap-Up & Close

Forum

