

9.00 am Registration & Exhibition

**STAGE 1 PLENARY**

9.30 am **Opening/Welcome Remarks**  
*Dr. Gunnar Merz, CEO, Composites United e.V. & Dr. Jochen Köckler, Chairman of the Managing Board, Deutsche Messe AG*

9.40 am **Political Keynote**  
*Michael Kellner, Parliamentary State Secretary*

9.50 am **Political Keynote**  
*Grzegorz Piechowiak, Secretary of State in the Polish Ministry of Economic Development and Technology*

10.00 am **Political Keynote**  
*Olaf Lies, Minister for Environment, Energy, Building, and Climate Protection of Lower Saxony*

10.10 am **Keynote 1: Lightweight design for sustainability and climate protection**  
*Prof. Dr.-Ing. Jan Wörner, President, acatech*

10.30 am **Keynote 2: Research Trends in Lightweight Design at Polish Universities and Companies**  
*Prof. Anna Boczkowska, Dean of Faculty – Materials Science & Engineering, Warsaw University of Technology*

10.50 am Coffee Break & Exhibition

11.25 am **Keynote 5: Lightweight solutions and digital twin technologies for current and future space applications**  
*Dr. Walther Pelzer, Member of the Executive Board, Director-General, German Space Agency*

11.45 am **SESSIONS**  
*simultaneously on 3 stages*

2.15 pm **Keynote 4: Shipbuilding and Composites – an undiscovered Lovestory**  
*Jan Henkel, Vice President Fassmer Maritime, Fr. Fassmer GmbH & KG*

2.35 pm **SESSIONS**  
*simultaneously on 3 stages*

4.20 pm **Keynote 3: Lightweight aerostructures for sustainable aviation**  
*Markus Feiler, Head of R&T, Airbus Aerostructures*

4.40 pm **Keynote 6: N.N.**  
*N.N.*

5.00 pm **Wrap Up / Farewell / Evening Event**  
Announcement LightCon 2024 & Partner Country 2024

**STAGE 1 SESSIONS**

**Technology Transfer Program Lightweight Design, BMWK & Efficient Production I**

11.45 am **Introduction of the Technology Transfer Program Lightweight Design of the BMWK**  
*Werner Loscheider, BMWK*

12.00 pm **Pitches: Various Project partners of the Technology Transfer Program Lightweight Design**  
Innovative Lightweight Design Projects and Solution approaches across various industries are introduced in short presentations  
*Various Speakers*

12.30 pm **Enabling Dynamic Process Adaption and Efficiency Increase by Real-Time Material Characterization**  
*Dr. Alexander Chaloupka, NETZSCH Process Intelligence GmbH*

12.45 pm **Lightweight Design – From bionic inspiration to resourceoptimized industrial products**  
*Dipl. Ing. Michael Winkler, Head of Adv. Development Mechatronics and Applications, Festo*

1.00 pm Lunch & Exhibition

**Sustainable Materials II**

2.35 pm **Saved weight by 3D printing of a damper support bracket for a high speed train**  
*Dr. Uwe Jurdeczka, ALSTOM Transport Deutschland GmbH*

2.50 pm **Unique near “zero waste” C-SMC rapid molding technology for hollow structures**  
*Jacek Sykulski, Carbon Design Sp. z o. o.*

3.05 pm **Creating a CO<sub>2</sub> neutral building industry**  
*Maximilian Schade, STROHBOLD*

3.20 pm **Diatom inspired lightweight structures**  
*Prof. Izabela Zglobicka, Bialystok University of Technology*

3.35 pm **20,000 exoskeletons on the market: experiences and best practices with regard to ergonomics and productivity from 4+ years of work**  
*David Duwe, Otto Bock*

3.50 pm Coffee Break & Exhibition

**STAGE 2 SESSIONS**

**Sustainable Materials I**

11.45 am **MY-CO LightAM: Taylor-made 3D printed biopolymer lattices for fungal-based composite**  
*Prof. Christina Völlmecke, TU Berlin, Institute of Mechanics*

12.00 pm **NECTO – An innovative metal sandwich. Flat and curved lightweight panels with many advantages**  
*Dr. Maximilian Scherff, MATRIX-Module GmbH*

12.15 pm **Efficient prototype and small volume production of lightweight aluminum structural castings**  
*Dr. Joachim Gundlach, Grunewald GmbH & Co. KG*

12.30 pm **Application of more efficient materials testing techniques for improved component design**  
*Dr. Jens Bold, Boeing R&T Europe & Jan Seidel, Applus+ BK*

12.45 pm **Circular and hybrid – manufacturing and functionalisation of multi-material lightweight structures**  
*Dr. Daniel Weck, TU Dresden – Institute of Lightweight Engineering and Polymer Technology*

1.00 pm Lunch & Exhibition

**Efficient Production II**

2.35 pm **Potentials for energy and resource efficient CFRP production via smart RTM**  
*Tobias Meyer, CTC GmbH*

2.50 pm **Application of digital methods – Smart production for lightweight components**  
*Dr. Wolfgang Böhm, Neue Materialien Fürth GmbH*

3.05 pm **Efficient production of fiber-reinforced composite endless profiles with discontinuous cross-section**  
*Susanne Kroll, Fraunhofer IWU*

3.20 pm **Mouldless lightweight functional components in competitive sport**  
*Jakub Gorczyca, stride.parts*

3.35 pm **Injection Molding “on the fly”**  
*Dr. Michael Stegelmann, Anybrid GmbH*

3.50 pm Coffee Break & Exhibition

**STAGE 3 SESSIONS**

**New Energy Solutions**

11.45 am **EMI shielding by through composite materials**  
*Dr. Robert Brüll, FibreCoat GmbH*

12.00 pm **A new competitive composite technology as alternative for applications in construction**  
*Dr. Dirk Büchler, BaltiCo GmbH*

12.15 pm **Design space adapted hydrogen FRTP storage cells for future mobility applications**  
*Ferdinand Suess, herone GmbH*

12.30 pm **Architecture Fully Fashioned – 3D Print on 3DTextiles**  
*Prof. Claudia Lülmg, Frankfurt University of Applied Sciences*

12.45 pm **Embracing new lightweight opportunities – CFRP filament winding for generative 3D structures**  
*Nicolai Kempf, FFT Produktionssysteme GmbH & Co. KG*

1.00 pm Lunch & Exhibition

**Circular Economy**

2.35 pm **Circular and hybrid – manufacturing and functionalisation of multi-material lightweight structures**  
*Dr. Daniel Weck, TU Dresden – Institute of Lightweight Engineering and Polymer Technology*

2.50 pm **Transforming Textiles to Testimonies: recycled solutions for Fabric Façades**  
*Katja Bernert, Mehler Technologies GmbH*

3.05 pm **Saying Goodbye to Heavy Metal**  
*Yannick Willemin, 9T Labs*

3.20 pm **Joining Forces within the Sustainable Industrial Design of Textile Structures for Composites-Project**  
*Rebecca Emmerich, RWTH Aachen – ITA*

3.50 pm Coffee Break & Exhibition

*Subject to change.*