

Would you like
to know more?
Talk to us!



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LIGHT CON

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US!

13 JUNE 2023
HANNOVER | GERMANY

INTERNATIONAL
CONVENTION FOR
LIGHTWEIGHT SOLUTIONS

Lightweight Design
as the Answer to Energy
and Material Scarcity

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Partner Country
Poland

A full-day program
featuring top-class
keynote speakers



Prof. Dr.-Ing. Jan Wörner
President
ACATECH



Prof. Anna Boczkowska
Warsaw University of Technology,
Faculty of Materials Science
and Engineering
PARTNER COUNTRY
POLAND



Dr. Walther Pelzer
Member of the Executive
Board, Director-General
GERMAN SPACE
AGENCY



9.00 am Registration & Networking

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, State Secretary at the Federal Ministry for Economic Affairs and Climate Action

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: Lightweight design for sustainability and climate protection**
Prof. Dr.-Ing. Jan Wörner, President, acatech – National Academy of Science and Engineering

10.30 am **Keynote: 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 & Networking

11.25 am **Keynote: 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: 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: Lightweight aerostructures for sustainable aviation**
Markus Feiler, Head of R&T, Airbus Aerostructures

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

5.00 pm **Wrap Up / Farewell / Evening Event**

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 Programme for Lightweighting**
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 resource optimized industrial products**
Dipl. Ing. Michael Winkler, Head of Adv. Development Mechatronics and Applications, Festo

1.00 pm Lunch & Networking

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 **N.N.**
N.N.

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 (tbc)

3.50 pm Coffee Break & Networking

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 (tbc)

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 **Wood in Top Form – New Perspectives in Light Weight Design**
Prof. Peer Haller, TU Dresden – Insitute of Steel and Timber Construction

1.00 pm Lunch & Networking

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 & Networking

STAGE 3 SESSIONS

New Energy Solutions

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

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 Lüling, 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 & Networking

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 Willemín, 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 & Networking

Get your tickets here!

