

Jan Henkel Vice President Fassmer Maritime FR. FASSMER GMBH & KG



Markus Feiler Head of R&T AIRBUS AEROSTRUCTURES



Dipl. Ing. Michael Winkler Head of Adv. Development **Mechatronics and Applications** FESTO

Would you like to know more? Talk to us!



Thomas Pinkowski Senior Project Director +49 511 89 32427 thomas.pinkowski@messe.de



Andreas Wolf Project Director +49 511 89 31193 andreas.wolf@messe.de



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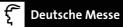


13 JUNE 2023 HANNOVER | GERMANY

INTERNATIONAL CONVENTION FOR LIGHTWEIGHT SOLUTIONS



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A full-day program featuring top-class keynote speakers



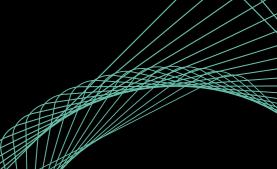
Prof. Dr.-Ing. Jan Wörner President ACATECH



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



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5.00 pm Wrap Up / Farewell / Evening Event

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. DrIng. 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 & K				
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:				

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 approache across varoius 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 & 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. <i>N.N.</i>
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

	Technology Transfer Program Lightweight Design, BMWK & Efficient Production I		Sustainable Materials I
n	Introduction of the Technology Transfer Program Lightweight Design of the BMWK Werner Loscheider, BMWK	11.45 am	MY-CO LightAM: Taylor-made 3D printed biopolymer lattices for fungal-based composite Prof. Christina Völlmecke, TU Berlin, Institute of Mechanics
m	Pitches: Various Project partners of the Technology Transfer Programme for Lightweighting Innovative Lightweight Design Projects and Solution approaches	12.00 pm	NECTO – An innovative metal sandwich. Flat and curved lightweight panels with many advantages Dr. Maximilian Scherff, MATRIX-Module GmbH
	across varoius industries are introduced in short presentations Various Speakers	12.15 pm	Efficient prototype and small volume production of lightweight aluminum structural castings Dr. Joachim Gundlach, Grunewald GmbH & Co. KG (tbc)
m	Enabling Dynamic Process Adaption and Efficiency Increase by Real-Time Material Characterization Dr. Alexander Chaloupka, NETZSCH Process Intelligence GmbH	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
m	Lightweight Design – From bionic inspiration to resourceoptimized industrial products Dipl. Ing. Michael Winkler, Head of Adv. Development Mechatronics and Applications, Festo	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	Lunch & Networking	1.00 pm	Lunch & Networking
	Sustainable Materials II		Efficient Production II
1	Saved weight by 3D printing of a damper support bracket for a high speed train Dr. Uwe Jurdeczka, ALSTOM Transport Deutschland GmbH	2.35 pm	Potentials for energy and resource efficient CFRP production via smart RTM Tobias Meyer, CTC GmbH
n	Unique near "zero waste" C-SMC rapid molding technology for hollow structures Jacek Sykulski, Carbon Design Sp. z o. o.	2.50 pm	Application of digital methods – Smart production for lightweight components Dr. Wolfgang Böhm, Neue Materialien Fürth GmbH
n	N.N. N.N.	3.05 pm	Efficient production of fiber-reinforced composite endless profiles with discontinuous cross-section Susanne Kroll, Fraunhofer IWU
า	Diatom inspired lightweight structures Prof. Izabela Zglobicka, Bialystok University of Technology	3.20 pm	Mouldless lightweight functional components in competitive sport Jakub Gorczyca, stride.parts
1	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)	3.35 pm	Injection Molding "on the fly" Dr. Michael Stegelmann, Anybrid GmbH
n	Coffee Break & Networking	3.50 pm	Coffee Break & Networking

STAGE 2 SESSIONS

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

Circular Economy

1.00 pm Lunch & Networking

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 Texnologies GmbH

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

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!

