

Day 1: Tuesday 22 June 2021

09:00 - 09:30 Uhr	Check-In			
09:30 - 09:35 Uhr	Greeting Michael Kynast, CEO Messe Erfurt GmbH Consulting Committee Michael Eichmann, Stratasys GmbH and Prof. Gerd Witt, Universität Duisburg-Essen, Lehrstuhl Fertigungstechnik			
09:35 - 09:45 Uhr	Greeting patron			
09:45 - 10:30 Uhr	<p>Keynote 1 Industrial AM drives Bus Ralf Anderhofstadt, Head of Center of Competence 3D-Printing - Daimler Buses und Janis Kretz, Digital Supply Chain Manager - Center of Competence 3D-Printing, EvoBus/Daimler Buses</p>			
10:30 - 11:00 Uhr	Coffee break			
	<p>Automotive & Mobility Room: Carl Zeiss left</p>	<p>Software, Processes, Construction I Room: Carl Zeiss right</p>	<p>Medical-, Dental- & Orthopaedic Technology Room: Panoramasaal</p>	<p>Fraunhofer Competence Field Additive Manufacturing Room: Christian Reichart</p>
	<p>Implementation of Additive Manufacturing at Schaeffler - our journey from RP to series production Carsten Merklein, Vice President Advanced Manufacturing Technologies – Advanced Production Technology, Schaeffler Technologies AG & Co. KG</p>	<p>The digital twin in additive manufacturing in combination with artificial intelligence Julia Lakämper, Wissenschaftliche Mitarbeiterin, Fraunhofer-Einrichtung für Additive Produktionstechnologien IAPT</p>	<p>News about MDR - Impacts of EU Medical Device Regulation on Additively Manufactured Products Dr. Özlem Weiss, Verantwortliche Geschäftsführerin, Experts GmbH</p>	<p>Sustainable design for structural components - process-specific topology optimization with SLM resource modeling Klaus Hoschke, Gruppenleiter Additive Design and Manufacturing, Fraunhofer-Institut für Kurzezeitdynamik, Ernst-Mach Institut, EMI</p>
11:00 - 11:30	<p>WING3D: Multi-target optimized rear wing system for active aerodynamics Sebastian Flügel, Projektleiter, EDAG Engineering GmbH</p>	<p>Where the powder bed ends - the powder nozzle begins Ulwe Schulte, Business Unit Manager Additive Manufacturing, toolcraft AG</p>	<p>Cost savings with cranial implants 3D printed with polymers Martin Herzmann, Business Development, Kumovis</p>	<p>Topology-optimized series components with binder jetting Dr. Daniel Günther, Abteilungsleiter, Fraunhofer-Institut für Gießerei-, Composite- und Verarbeitungstechnik IGV</p>
11:30 - 12:00	<p>Optimization of the production processes of powder-based additive manufacturing technologies by means of a machine learning model for the temporal prognosis of the build and cooling phase Paul Osswald, Doktorand, BMW AG</p>	<p>Design for AM: Part identification and implementation in serial production Erik Schröder, Consultant Additive Manufacturing, TRUMPF Laser- und Systemtechnik GmbH</p>	Lunch break	<p>Process time and energy savings in medical and technical processes through cerAMufactured and functionalised ceramic components Ulwe Schelthauer Fraunhofer-Institut für Keramische Technologien und Systeme IKTS</p>
12:00 - 12:30	Lunch break	<p>Simulation validation of automated AM production Fabian Tieck, PhD-Student, EOS GmbH</p>	<p>Discover the possibilities - solutions from digital orthotics and prosthetics Frank Naumann, Abteilungsleiter Orthopädietechnik, Orthovital GmbH</p>	Lunch break
12:30 - 13:00	Lunch break	Lunch break	<p>Process optimization for the manufacturing of individualized ankle foot orthoses via digitalization and AM Lydia Mika, Wissenschaftliche Mitarbeiterin, Technische Universität Dresden, Professur für Konstruktionstechnik/ CAD</p>	<p>Additive Manufacturing with cooper - potentials for energy efficient systems Lukas Stepien, Gruppenleiter Pulverbettverfahren und Drucken, Fraunhofer-Institut für Werkstoff- und Strahltechnik IWS</p>
13:00 - 13:30	<p>Key enabler for the application of metal 3D printing in automotive engineering Anwar Shad, Prozessingenieur Binder-Jetting, Volkswagen Aktiengesellschaft</p>	<p>AM in Construction Engineering & Architecture Room: Carl Zeiss right</p>	<p>Amorphous metals: New materials for medical implants to ensure higher requirements Laura Kastenmeyer, Industry Manager Additive Manufacturing, TRUMPF Laser- und Systemtechnik GmbH</p>	<p>Potentials of data-driven quality assurance for a more flexible and sustainable production with the laser beam melting process (PBF-LB/M) Martin Jarecki, Wissenschaftlicher Mitarbeiter - Generative Verfahren, Fraunhofer-Institut für Werkzeugmaschinen und Umformtechnik IWU</p>
13:30 - 14:00	<p>AM design automation - How Ford overcomes the bottleneck of designing jigs and fixtures Dr. Ole von Seelen, Head of Business Development and Strategic Marketing, trinckle 3D GmbH</p>	<p>Use of Wood in Additive Manufacturing in Construction Dr. Klaudius Henke, Lehrstuhl für Holzbau und Baukonstruktion, Technische Universität München</p>	<p>Additive Manufacturing for Construction Industry: Part Properties and Process Quality Sebastian Künne, Projektgenieur Otto Fuchs KG</p>	<p>Assessment of sustainability of metal additive manufacturing in a production environment Christian Weiß, Wissenschaftlicher Mitarbeiter, Fraunhofer-Institut für Lasertechnik ILT</p>
14:00 - 14:30	Lunch break	Lunch break	Lunch break	Lunch break
14:30 - 15:00	<p>News from AM I Room: Carl-Zeiss left</p> <p>Metal AM market developments and emerging technologies Matthias Schmidt-Lehr, Managing Partner, Ampower GmbH & Co. KG</p>	<p>AM Science I Room: Panoramasaal</p>	<p>Liquid-liquid phase separation and precipitation for production of novel feedstocks for powder bed fusion of polymers Dr. Jochen Schmidt, Gruppenleiter/ Wissenschaftlicher Mitarbeiter, Friedrich-Alexander-Universität Erlangen-Nürnberg</p>	<p>Coffee break</p>
14:30 - 15:00	<p>Experience with the practical use of additively manufactured components under the Pressure Equipment Directive Stephan Braun, R&D Additive Manufacturing, KSB SE & Co. KGaA</p>	<p>Biomimetic Topology Optimization and Robotic Fabrication of 3-D Printed High-Performance Construction Systems Maged Guerguis, Assistant Professor of Design & Structural Technology, The University of Tennessee</p>	<p>Selective laser sintering of polyamide 12 - Effect of flow-enhancing additives on processability and part properties Andreas Jaksch, Wissenschaftlicher Mitarbeiter, Friedrich-Alexander-Universität Erlangen-Nürnberg</p>	<p>Smart use of AM in Aviation Sonja Rasch, Sales Director Manufacturing D/CH, Materialise GmbH</p>
15:00 - 15:30	<p>Computer Tomography - Chances and limits of technology Lennart Schulenburg, Managing Director - Shareholder, VisiConsult X-ray Systems & Solutions GmbH</p>	<p>Radically sustainable - Innovation in construction through SCA-technology Christian Wiesner, Technischer Leiter, Additive Tectonics GmbH</p>	<p>Investigation of the effect of post-treatment methods on the mechanical and topological properties of laser sintered polypropylene samples Livia C. Wiedau, Wissenschaftliche Mitarbeiterin, Universität Duisburg-Essen Fakultät für Ingenieurwissenschaften Institut für Produkt Engineering Lehrstuhl Fertigungstechnik</p>	<p>Non-destructive quality inspection of metal AM parts for space applications Dr. Thomas Kleinteich, Leitung CT und Röntgenlabor, TPW Prüfzentrum GmbH</p>
15:30 - 16:00	Lunch break	Lunch break	Lunch break	Lunch break
16:00 - 16:15	Coffee break			
16:15 - 17:00	<p>Panel Discussion Sustainability Moderation Bernhard Langefeld / Roland Berger</p> <p>Volker Thum, CEO, BDI Bundesverband der Deutschen Luft- und Raumfahrtindustrie e.V. Ralf Anderhofstadt, Head of Center of Competence 3D-Printing - Daimler Buses, Daimler Truck AG EvoBus GmbH - Daimler Buses Volker Hammes, Managing Director at BASF New Business GmbH</p>			
ab 17:00	get together in the exhibition			