

## PROGRAM\*

### Wednesday, May 21

12:00 (CET) Registration | Light Lunch

13:00 Opening  
*Frank Brückner, Fraunhofer IWS*

**13:10–14:10 Design and Simulation**  
Chair: Frank Brückner, Fraunhofer IWS

13:10 AI-driven Multi-physics Modeling: Advancing Additive Manufacturing for Accuracy, Efficiency, and Sustainability  
*Bijish Babu, Aerobase Innovations AB*

13:30 Repair Technology for Jet Engine Turbine Blade by Directed Energy Deposition  
*Kazuhiro Mizuta, AeroEdge Co., Ltd.*

13:50 Enhancing Process Control Using Laser Beam Shaping: Insights from Numerical Modeling  
*Tin Brdnik, Flow Science Deutschland GmbH*

**14:10 Exhibitor Pitches**

Etixtar a 360° Approach for Laser Powder Direct Energy Deposition (LP DED) Technology  
*Itziar Onandia, ETXETAR S.A.*

Blue Diode Lasers for Copper: A New Light in Additive Manufacturing  
*Thomas Molitor, Laserline GmbH*

Upscaling high-power processes with beam shaping  
*Fabrice Meier, CAILABS*

14:30 Coffee Break and Exhibition

## Wednesday, May 21

### 15:00–16:20 **Materials**

Chair: Lukas Stepien, Fraunhofer IWS

15:00 Laser Powder Bed Fusion of Ti-6Al-4V for Aerospace Applications  
*Christopher Arnold, MTU Aero Engines*

15:20 Rhenium Production, Emerging Applications, and Additive Manufacturing  
Developments  
*Álvaro Ponce, Molymet*

15:40 Development of New Alloys for Additive Manufacturing  
*Andrew Norman, European Space Agency (ESA)*

16:00 AM-driven Material Screening  
*Martina Zimmermann, Fraunhofer IWS | TU Dresden*

### 16:20 **Exhibitor Pitches**

Outokumpu – high performing sustainable powders for AM technologies  
*Andoni Sanchez-Valverde Erice, Outokumpu Nirosta GmbH*

Criteria for the selection of metal AM powder handling and sieving equipment  
*Hartwig Peschken, Russell Finex NV*

### 17:00–21:00 **Open Lab @Fraunhofer IWS**

### End of Day 1

**Thursday, May 22****9:00–10:20 Process Chain and Advanced Manufacturing I**

Chair: Samira Gruber, Fraunhofer IWS

- 9:00 Upscaling Additive Manufacturing with MPLC-Based Beam-Shaping  
*Adeline Orieux, Cailabs*
- 9:20 Application of Shaped Beam in Laser Powder Bed Fusion Technology  
*Oliver Huizhi Li, FARSOON Europe GmbH*
- 9:40 Innovative Laser Technology: Elevating Additive Manufacturing with Superior Quality, Performance, and Unique Capabilities  
*Dmitry Badyukov, Optoprim Germany GmbH*
- 10:00 DED Integration in Process Chains for Complex Geometries and Flexible Repair Strategies  
*Francesco Bruzzo, Fraunhofer IWS*
- 10:20 [Coffee Break and Exhibition](#)
- 11:00–12:00 Process Chain and Advanced Manufacturing II**  
Chair: Francesco Bruzzo, Fraunhofer IWS
- 11:00 Advanced Beam Control Technology for Super Fine Directed Energy Deposition  
*Hiroyuki Nagasaka, Nikon*
- 11:20 Accelerating AM: Process Enhancements via Dynamic Beam Shaping  
*Robert Bernhard, CIVAN Lasers*
- 11:40 Process Chain Analysis for Shorter Development Cycles  
*Lukas Stepien, Fraunhofer IWS*
- 12:00 Keynote Speech: Bridging Additive Manufacturing between Non-medical Industry and Medical Applications**  
*Özlem Weiss, Expertant*
- 12:30 [Lunch Break and Exhibition](#)

## Thursday, May 22

### 13:30–14:50 **Artificial Intelligence and Digitalization**

Chair: Mirko Riede, Fraunhofer IWS

13:30 Data-Driven Process Optimization in Additive Manufacturing – A Platform Solution for Quality Management and Cost Reduction  
*Peter Lindecke, amsight GmbH*

13:50 Advanced CAM Planning with Siemens NX and GenAI – an Example for DED  
*Henrik Gerdes, Siemens AG*

14:10 How Does CO-AM leverage AI to Capture Metal PBF Flaws – and what Does it Mean for Daily Operations?  
*Christophe Blanc, Materialise*

14:30 Monitoring the EHLA Coating of Brake Discs at High Production Rates  
*Maria Angeles Montealegre & Itziar Onandia, Etxetar*

14:50 [Coffee Break and Exhibition](#)

### 15:20–16:40 **Testing and NDI (Non-destructive Inspection)**

Chair: Jacob Mätje, Fraunhofer IWS

15:20 No Lack of Data: Handling Large L-PBF In-process Monitoring Data Sets  
*Philip Sperling, Interspectral*

15:40 3D Metal Binder Jetting Green Parts Microstructure Metrics Methodology for Sustainable Technology Developments  
*Rocío Muñoz Moreno, HP*

16:00 High-Speed In Situ X-ray Imaging to Reveal Process Dynamics in Additive Manufacturing  
*Klaus Schrickler, BTU Cottbus-Senftenberg*

16:20 In-situ Inspection for Advanced Manufacturing  
*Bernard Revaz, AMiquam*

### 17:00–21:00 **Poster Session and Get Together**

## End of Day 2

**Friday, May 23****9:00–10:20 Industrialization and Business Cases**

Chair: Martina Zimmermann, Fraunhofer IWS | TU Dresden

- 9:00 Industrial Perspective on DED Technology – From Developments to Industrialization  
*Arkadi Zikin, Oerlikon*
- 9:20 Different Approaches to Hybrid Manufacturing for New and Future Structural Automotive Components  
*Pietro Licignano, CRF*
- 9:40 DED Technology for Printing Multimaterial Parts and Repair of Worn Out Components  
*Markus Bäuml, DMG Mori*
- 10:00 AM Technology for Revolutionizing the Design and Manufacturing Process  
*Masayuki Eda & Takashi Ishide, MHI*

10:20 [Coffee Break and Exhibition](#)**11:00–12:20 Trends in AM and Sustainability**

Chair: Elena López, Fraunhofer IWS

- 11:00 Developments in the AM Market and How to Benefit From Them  
*Georg Schöpf, x-technik*
- 11:20 Additive Manufacturing Market Evolution and Industrial Applications  
*Naiara Zubizarreta, Addimat*
- 11:40 Additive Manufacturing in Aerospace: Emerging Trends and Technological Challenges  
*Rosa Pineda Huitron, GKN Aerospace Engine Systems*
- 12:00 Sustainable Stainless Steel Powder Accelerating a Green Transformation  
*Xuan Yang, Outokumpu Nirosta GmbH*
- 12:20 Concluding Remarks  
*Elena López, Fraunhofer IWS*

**End of the Conference**