

PROGRAM***Wednesday, May 21**

12:00 (CET) Registration | Light Lunch

13:00 Opening
Frank Brückner, Fraunhofer IWS

13:10–14:10 Design and Simulation

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

14:30 [Coffee Break and Exhibition](#)

15:00–16:20 Materials

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

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

- 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

- 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

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)

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 Schricker, 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

- 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
Andrea Bongiovanni, 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

- 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