

Session Program

17-19 Sept 2024



Metal Additive Manufacturing Conference - MAMC 2024

Laser Melting, Electron Beam Melting & Direct Energy Deposition Processes

Erholungsgesellschaft Aachen
Reihstraße 13, 52062 Aachen, Germany

Wednesday 18 September

11:30

Laser Melting, Electron Beam Melting & Direct Energy Deposition Processes

Session | **Location:** Erholungsgesellschaft Aachen, Room 1 | **Convener:** Prof. Christof Sommitsch

11:30-11:50

Investigation of 3D Plasma Metal Deposition with Aluminium powder

Speaker

Mr Daniel Vieweger

11:50-12:10

Optical Coherence Tomography (OCT) for Real-Time Layer Thickness Monitoring in High-Speed Laser Metal Deposition process

Speaker

Dr Simone Maffia

12:10-12:30

L-PBF process parameter optimization for thin structures

Speaker

Dr Giuseppe Macoretta

12:30

14:00

Laser Melting, Electron Beam Melting & Direct Energy Deposition Processes

Session | **Location:** Erholungsgesellschaft Aachen, Room 1 | **Convener:** Dr Anke Kaletsch

14:00-14:20

Influence of LPBF printing parameters on the porosity of Ni3Al for catalytic applications

Speaker

Marlene Eichlseder

14:20-14:40

Refractory-based complex concentrated alloys fabricated by means of L-PBF and in-situ alloying

Speaker

Dr Petra Spörk-Erdelyi

14:40-15:00

On the repair of industrial steel parts with a robotized Directed Energy Deposition system

Speaker

Cédric Georges

15:00

Thursday 19 September

09:30

Laser Melting, Electron Beam Melting & Direct Energy Deposition Processes

Session | **Location:** Erholungsgesellschaft Aachen, Room 1 | **Convener:** Prof. Nader Asnafi

09:30–09:50

New Island Partitioning to Improve Scanning Strategies in Powder Bed Fusion of Metals with Laser Beam

Speaker

Dominick Holman

09:50–10:10

On the interaction of ceramic fillers with metal matrix during laser action under LPBF synthesis

Speaker

Prof. Alexander Gromov

10:10–10:30

Process development and risk assessment for processing magnesium alloys using LPBF technology

Speaker

Raphael Tiefnig

10:30

11:00

Laser Melting, Electron Beam Melting & Direct Energy Deposition Processes

Session | **Location:** Erholungsgesellschaft Aachen, Room 1 | **Convener:** Dr Gerhard Hackl

11:00–11:20

Investigations on the numerical modeling of the plasma arc wire additive manufacturing process using a Ti-6Al-4V alloy

Speaker

Hugo Drexler

11:20–11:40

Geometry Adaptive Processing Strategies for Laser Powder Bed Fusion

Speaker

Tobias Pichler

11:40–12:00

L-PBF OF DIFFERENT TITANIUM ALLOYS MIXED WITH MOLYBDENUM: STATIC AND DYNAMIC MECHANICAL PROPERTIES

Speaker

Jelena Petrusa

12:00