



# Metal Additive Manufacturing Conference - MAMC 2024

## Wednesday 18 September 2024

### Laser Melting, Electron Beam Melting & Direct Energy Deposition Processes - Room 1 (11:30-12:30)

**-Conveners: Christof Sommitsch**

time	[id] title	presenter
11:30	[7] Investigation of 3D Plasma Metal Deposition with Aluminium powder	Mr VIEWEGER, Daniel
11:50	[29] Optical Coherence Tomography (OCT) for Real-Time Layer Thickness Monitoring in High-Speed Laser Metal Deposition process	Dr MAFFIA, Simone
12:10	[9] On the repair of industrial steel parts with a robotized Directed Energy Deposition system	GEORGES, Cédric

### Laser Melting, Electron Beam Melting & Direct Energy Deposition Processes - Room 1 (14:00-15:00)

**-Conveners: Anke Kaletsch**

time	[id] title	presenter
14:00	[15] Influence of LPBF printing parameters on the porosity of Ni3Al for catalytic applications	EICHLSEDER, Marlene
14:20	[19] Refractory-based complex concentrated alloys fabricated by means of L-PBF and in-situ alloying	Dr SPÖRK-ERDELY, Petra
14:40	[28] L-PBF process parameter optimization for thin structures	Dr MACORETTA, Giuseppe

# Thursday 19 September 2024

## Laser Melting, Electron Beam Melting & Direct Energy Deposition Processes - Room 1 (09:30-10:30)

**-Conveners: Nader Asnafi**

time	[id] title	presenter
09:30	[18] New Island Partitioning to Improve Scanning Strategies in Powder Bed Fusion of Metals with Laser Beam	HOLMAN, Dominick Mr BOSEILA, Jonas
09:50	[35] On the interaction of ceramic fillers with metal matrix during laser action under LPBF synthesis	Prof. GROMOV, Alexander
10:10	[40] Process development and risk assessment for processing magnesium alloys using LPBF technology	TIEFNIG, Raphael

## Laser Melting, Electron Beam Melting & Direct Energy Deposition Processes - Room 1 (11:00-12:00)

**-Conveners: Gerhard Hackl**

time	[id] title	presenter
11:00	[43] Investigations on the numerical modeling of the plasma arc wire additive manufacturing process using a Ti-6Al-4V alloy	DREXLER, Hugo
11:20	[46] Geometry Adaptive Processing Strategies for Laser Powder Bed Fusion	PICHLER, Tobias
11:40	[48] L-PBF OF DIFFERENT TITANIUM ALLOYS MIXED WITH MOLYBDENUM: STATIC AND DYNAMIC MECHANICAL PROPERTIES	PETRUSA, Jelena