

Session Program

17-19 Sept 2024



Metal Additive Manufacturing Conference - MAMC 2024

Process- and Quality Control & Sustainability

Erholungsgesellschaft Aachen
Reihstraße 13, 52062 Aachen, Germany

Wednesday 18 September

09:30

Process- and Quality Control & Sustainability

Session | **Location:** Erholungsgesellschaft Aachen, Room 2 | **Convener:** Sepide Hadibeik

09:30–09:50

A topographical methodology for in-situ process control in Laser Powder Bed Fusion (LPBF) Metal 3D Printing

Speaker

Prof. Vahid Fallah

09:50–10:10

Maximizing Sustainability in Additive Manufacturing: A Comprehensive Study on CX Steel Powder Reusability via LPBF

Speaker

Dr Mehmet Cagirici

10:10–10:30

Material Circularity Through Reusing AlSi10Mg Waste in 3DPMD

Speaker

Yiyun Tong

10:30

11:30

Process- and Quality Control & Sustainability

Session | **Location:** Erholungsgesellschaft Aachen, Room 2 | **Convener:** Carsten Putz

11:30–11:50

Implementing an active strategy to the conservation and advancement of Laser Powder Bed Fusion (LPBF) powder feedstock

Speaker

Dr Mehmet Cagirici

11:50–12:10

Developing Zr-Based Bulk Metallic Glass through Laser Powder Bed Fusion Employing Second Generation of Non-Standard Beam Shaping Technology

Speaker

Sepide Hadibeik

12:10–12:30

Successful remanufacturing through data-based decision-making and intelligent process planning

Speaker

Mr Leonardo Sarmiento

12:30

14:00

Process- and Quality Control & Sustainability

Session | **Location:** Erholungsgesellschaft Aachen, Room 2 | **Convener:** Dr Simone Maffia

14:00–14:20

Advancing Metal Additive Manufacturing through Innovative Optical solutions

Speaker

Dr Hossein Ghasemi-Tabasi

14:20–14:40

Advancements in Wire-Based Aluminum Additive Manufacturing: Molten Metal Deposition, Parameter Optimization, and Finite Element Analysis

Speakers

Jan De Pauw, Chola Elangeswaran

14:40–15:00

ICME-guided design of novel dispersoid strengthened alloys for additive manufacturing

Speaker

Avinash Hariharan

15:00