



Space and Large Scale Research Facilities



Industry and Standardisation



In-Situ Monitoring at Large Scale Research Facilities

Tuesday 23 April

13:00	Arrival
13:30	Welcome and opening of the event
14:00	Fan Yang (DLR – Institut für Materialphysik im Weltraum)) “characterization of gas-flow assisted additive manufacturing of metallic glass powders on ground and in microgravity”
14:30	Andrew Norman (European Space Agency) Additive Manufacturing for Space Applications, an ESA Perspective.
15:00	Coffee Break
15:30	Sandra Cabeza (ILL) Unveiling Additive Manufacturing Signature on Structural components through Advanced Neutron Characterization
16:00	Alexander Rack & Yunhui Chen (ESRF) Insights into Laser Additive Manufacturing from correlative Synchrotron X-rays Imaging
16:30	Visit of
17:30	ILL & ESRF installations
18:00	Poster session
19:00	Cheese & Wine
19:30	

Wednesday 24 April

08:30	Arrival
09:00	Keynote: status and challenges (TBC)
09:30	Elena Lopez (Fraunhofer IWS) Productive and resource-efficient AM of big parts
10:00	Manuel Sánchez Poncela (ArcelorMittal - Global R&D) Neutron residual stress characterization & simulation of 316L Laser-Powder Bed Fusion simplified end-use part as-built and heat treated
10:30	Coffee Break
11:00	Paula Queipo Rodriguez (IDONIAL) Introduction to the Additive Manufacturing European Technology Platform
11:30	Nikolaj Zangerberg (DTI, EASISTRESS) Residual stress qualification of AM parts – Measurement, uncertainty and standardisation
12:00	Lunch
13:00	
13:30	John Carpenter (Los Alamos National Laboratory) In Situ Time and Location Resolved Measurements of Residual Stresses in Additively Manufactured Metals
14:00	Steve Gaudes (Ecole Polytechnique, Paris) Insights into microstructure evolution during AM by synchrotron and neutron techniques
14:30	Markus Strobl (Paul Scherrer Institute) In-situ and Operando Neutron Studies of Laser Powder Bed Fusion Metal AM
15:00	Coffee Break
15:30	Joao P. Oliveira (NOVA University Lisbon) Effect of heat treatments on 316 stainless steel parts fabricated by wire and arc AM
16:00	Federico Sket (IMDEA Materials Institute) Using X-ray imaging and diffraction to assist the development of novel Ti alloys tailored for AM
16:30	Current and Future Challenges
17:30	(Moderated Discussion)
18:00	
19:00	Cocktail & Gala Dinner at «Le Ciel»
19:30	& Food for Thought