



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	Andreas Meyer - ILL Associate Director Welcome address
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 - 17:30	Visit of ILL & ESRF installations
18:00	Poster session
19:00	Cheese & Wine
19:30	

Wednesday 24 April

08:30	Arrival
09:00	Amaya Igartua (European Materials Platform EUMAT) EU Materials initiatives and TEKNIKER activities in Additive Manufacturing
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 - 13:00	Lunch
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 Gaudet (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 - 17:30	Current and Future Challenges (Moderated Discussion)
18:00	
19:00	Cocktail & Gala Dinner at «Le Ciel» & Food for Thought
19:30	