Agenda of UMA³ training:

Local Individual Scientific Training (TLIS)

13 – 14 – 15 December 2021 (3 sessions-online)

13th December– Session 1	Advanced materials for aerospace and aeronautical applications
14th December – Session 2	Additive manufacturing for aerospace materials
15th December – Session 3	Modelling and simulation, testing of materials

SESSION 1: Advanced materials for aerospace and aeronautical applications		
13th December 2021 (13:30-15:05 CET) Online:https://zoom.us/j/93014231820?pwd=bXl2NUJIb2dkZjJXT0I0N3IvUUo4dz09		
13:00 – 13:05	**1. Opening of session 1** *Official welcome, presentation of the agenda*	Greta Gergely
13:05 – 13:35	**2. Way from common materials toward flight hardware**	Dr. Pál Bárczy (Admatis Ltd.)
13:35 – 14:05	***3.* Advanced Materials for Fatigue and Damage Tolerance Design**	Enrico Troiani (UniBo)
14:05 – 14:35	***4.* Potential and Processing of Powder Blends**	Michael Norda (Fraunhofer-IFAM)
14:35 – 15:05	***5.* Advanced materials for aeronautics: evolution and future challenges**	Dr. Dionysios Markatos (LTSM)

SESSION 2: Additive manufacturing for aerospace materials		
14th December 2021 (13:00-15:05 CET) Online:https://zoom.us/j/93014231820?pwd=bXl2NUJIb2dkZjJXT0I0N3IvUUo4dz09		
13:00 – 13:05	**1. Opening of session 2** *Official welcome, presentation of the agenda*	Greta Gergely
13:05 – 13:35	**2. Powder metallurgy for advanced aerospace materials**	Dániel Pethő, Tamás Mikó Dávid Angel (UniMi)
13:35 – 14:05	***3.*** **Laser Powder Bed Fusion of Al alloys for the transports sector**	Lavinia Tonelli (UniBo)
14:05 – 14:35	***4.*** **Sinter-based AM**	Claus Aumund-Kopp (Fraunhofer-IFAM)
14:35 – 15:05	***5.*** **Simulation of the SLM process for cellular materials and topology optimization**	Haralampos Psichoyios, PhD candidate (LTSM)

SESSION 3: Modelling and simulation, testing of materials		
15th December 2021 (13:00-15:05 CET) Online:https://zoom.us/j/93014231820?pwd=bXl2NUJIb2dkZjJXT0I0N3IvUUo4dz09		
13:00 – 13:05	**1. Opening of session 3** *Official welcome, presentation of the agenda*	Greta Gergely
13:05 – 13:35	**2. CT analysis of heterogeneous structures**	Tamás Bubonyi (UniMi)
13:35 – 14:05	***3.*** **Numerical Simulation of Laser Shock Peening Process on Aerospace Components**	Nicola Zavatta (UniBo)
14:05 – 14:35	***4.*** **Surface Texture Analysis for Metal AM**	Theresa Buchenau (Fraunhofer-IFAM)
14:35 – 15:05	***5.*** **Computer simulation of materials deformation under load**	Dr. Panagiota Polydoropoulou (LTSM)