



Maranello (Italy) | 03-07 June 2019



## DAY 1

#### Monday, 03rd June 2019

TIME	ITEM	SPEAKER
12.30 - 13.00	Participant Registration → Free light Lunch available after registration LOCATION: SALA RIUNIONI CISIA – Ground floor Department of Mathematics, University of Modena Via Campi n. 231, Modena	
14.00	<u>STARTING OF THE SCHOOL:</u> SALA MASTER – Ground floor Department of Engineering "Enzo Ferrari" Via Vivarelli 10, Modena	
14.00 – 15.30	Welcome & Participant presentation	<i>Isella Vicini,</i> beWarrant S.L. <i>Elena Bassoli,</i> University of Modena
15.30 - 16.00	DREAM Project: an introduction	<i>Elena Bassoli,</i> University of Modena
16.00 - 16.15	RAM research group	<i>Andrea Gatto,</i> University of Modena
16.15 – 17.00	Basics of AM and PBF	<i>Elena Bassoli,</i> University of Modena
17.00 - 18.00	How to measure residual stresses in PBF parts: theory and practice	Alessio Benincasa, SINT Technology S.r.l.
18.00 - 18.30	Visit to Dept. of Engineering Laboratories	
18.45	TRANSFER TO MARANELLO VILLAGE Via terra delle rosse 12, Maranello (MO)	
20.00	DINNER AT MARANELLO VILLAGE	











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### **DAY 2**

### Tuesday, 04th June 2019

TIME	SUBJECT	SPEAKER
8.30	TRANSFER TO FERRARI MUSEUM Via Dino Ferrari, 43 - Maranello (MO)	
9.00 - 10.00	A real case of AM in the automotive sector	Andrea Merulla, Ferrari S.p.A.
10.00 - 11.00	AM components in industrial assembly line	Andrea Merulla, Ferrari S.p.A.
11.00 - 12.00	Electron microscopy approach to raw metal powders quality check	Eleonora Santecchia, Marche Polytechnic University
12.00 - 13.00	Guided tour to Ferrari Museum	
13.00 - 14.00	LUNCH AT RISTORANTE IL CAVALLINO – Via Abetone Inferiore 1, Maranello (MO)	
14.40	TRANSFER TO THE FORMULA SAE PADDOCK (Building 28) Department of Engineering "Enzo Ferrari" - Via Vivarelli 10, Modena	
15.00 - 17.00	Racing Team Experience with the More Modena Racing Formula SAE team	
17.30	TRANSFER TO MARANELLO VILLAGE Via terra delle rosse 12, Maranello (MO)	
20.00	DINNER AT MARANELLO VILLAGE	









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## DAY 3

#### Wednesday, 05th June 2019

TIME	ITEM	SPEAKER
8.30	TRANSFER TO MORE MANUFACTURING LABORATORY (Building 28) Department of Engineering "Enzo Ferrari" - Via Vivarelli 10, Modena	
9.00 – 10.00	Supports generation, AM equipment general set up	Alexis Gardarin, Poly- Shape France
10.00 - 11.00	<b>Group activities:</b> <u>Group 1:</u> Practical experience on the experimental characterization of parts produced by PBF <u>Group 2:</u> Practical experience on the characterization of powders for PBF	
11.00 – 12.00	<b>Group activities:</b> <u>Group 2</u> : Practical experience on the experimental characterization of parts produced by PBF <u>Group 1</u> : Practical experience on the characterization of powders for PBF	
12.00 - 13.00	<b>Optimising Additive Manufacturing with Powder Rheology</b> <u>LOCATION:</u> Room 1.4 (building 25)	Andrea Zappavigna, Alfatest S.r.I.
13.00 - 14.00	LIGHT LUNCH   <u>LOCATION:</u> SALA RIUNIONI CISIA – Ground floor Department of Mathematics, University of Modena Via Campi n. 231, Modena	
14.00 - 15.00	Main applications and problems of SLM technology in tools production	<i>Daniele Miceli,</i> RB S.p.A.
15.10	TRANSFER TO RB SPA via Luigi Gavioli 1, Mirandola (MO)	
15.45 – 16.45	<b>Group activities:</b> <u>Group 1:</u> Practical experience on the removal of a finished job <u>Group 2:</u> Visit to RB premises	
16.45 – 17.45	Group activities: Group 2: Practical experience on the removal of a finished job Group 1: Visit to RB premises	
18.00	TRANSFER TO MARANELLO VILLAGE Via terra delle rosse 12, Maranello (MO)	
20.30	DINNER AT MARANELLO VILLAGE	











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# DAY 4

#### Thursday, 06th June 2019

TIME	ITEM	SPEAKER
8.30	TRANSFER TO THE EVENTS ROOM TECNOPOLO (Building 52) Department of Engineering "Enzo Ferrari" - Via Vivarelli 10, Modena	
09.00 – 09.45	Horizon 2020 "DREAM" project main achievements	<b>Elena Bassoli</b> , University of Modena
09.45 – 10.45	Machine, high level parameters	Olli Nyrhilä, EOS Finland Oy
10.45 – 11.45	Design of novel additive manufacturing materials for biomedical applications	Daniel Cristea and Camelia Gabor, Transilvania University
11.45 – 12.15	Life Cycle Assessment in Additive Manufacturing	Anna Maria Ferrari and Grazia Maria Cappucci, National Interuniversity Consortium of Materials Science and Technology (INSTM)
12.15 - 13.00	Test and certification	<b>Fabio Alemani</b> , Adler Ortho France
13.00 - 14.00	LIGHT LUNCH   <u>LOCATION:</u> SALA RIUNIONI CISIA – Ground floor Department of Mathematics, University of Modena Via Campi n. 231, Modena	
14.00 - 14.15	Horizon Europe perspective for Research & Innovation projects	<i>Isella Vicini,</i> beWarrant S.L.
14.15 – 14.30	Additive Manufacturing R&I Group in partnership with the Common Dissemination Booster of the European Commission	<i>Cinzia Iacono,</i> Warrant Hub
14.30 - 15.10	HyProCell Project: Development and validation of integrated multiprocess HYbrid PROduction CELLs for rapid individualized laser-based production	<i>Rodolphe Gie,</i> Poly-Shape France











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15.10 – 15.50	AMOS Project: Additive Manufacturing Optimization and Simulation Platform for repairing and re-manufacturing of aerospace components	Udisien Woy, Nuclear Advanced Manufacturing Research Centre of UK Eneko Ukar, University of Basque Country	
15.50 – 16.30	Paraddise Project: A Productive, Affordable and Reliable solution for large scale manufacturing of metallic components by combining laser-based ADDItive and Subtractive processes with high Efficiency		
16.30 – 18.00	Panel Discussion/Round Table: AM future trends for a widespread adoption at industrial level	<ul> <li><u>Chair:</u> Elena Bassoli, University of Modena</li> <li>Olli Nyrhilä, EOS Finland Oy</li> <li>Daniel Cristea and Camelia Gabor, Transilvania University</li> <li>Fabio Alemani, Adler Ortho France</li> <li>Isella Vicini, beWarrant S.L.</li> <li>Rodolphe Gie, Poly-Shape France</li> <li>Udisien Woy, Nuclear Advanced Manufacturing Research Centre of UK</li> <li>Eneko Ukar, University of Basque Country</li> </ul>	
18.00 - 18.30	School closing and graduation		
18.45	TRANSFER TO THE ENZO FERRARI MUSEUM Via Paolo Ferrari 85, Modena		
19.30 - 21.30	Enzo Ferrari Museum Visit and Gala Cocktail		
22.00	TRANSFER TO MARANELLO VILLAGE		



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**W.TRAINING** 

Via terra delle rosse 12, Maranello (MO)

