

## Workshop Program, 17 October 2016

10:00	<b>Welcome and Introduction</b> Empa Akademie 1, Dr. Lars Sommerhäuser	
	<b>Session A</b> Empa Akademie 1, Chair: Prof. Christian Enz	<b>Session B</b> Empa Akademie 2, Chair Prof. Frank Nüesch
10:15	QM4AM <i>Prof. Konrad Wegener (ETHZ)</i>	Printed thin film Schottky diode <i>Dr. Nicolas Wyrsh (EPFL), Dr. Jakob Heier (Empa)</i>
10:30	FUORCLAM – Fundamental Understanding of Oxide Refractory Ceramics and Laser Additive Manufacturing <i>Prof. Konrad Wegener (ETHZ)</i>	Functional oxide electronics Printed on Paper and Polymers “FoxiP <sup>3</sup> ” <i>Dr. Danick Briand (EPFL)</i>
10:45	Advanced Micro-Manufacturing of Ceramics <i>Jakob Kübler (Empa)</i>	Tools with functional topographies <i>Dr. Helmut Schiff (PSI)</i>
11:00	Precision additive manufacturing of precious metal alloys <i>Prof. Roland Logé (EPFL)</i>	Complex lightweight design based on 3D-Printing and composite structures <i>Prof. Mirko Meboldt (ETHZ)</i>
11:15	Powder focussing for beam induced laser 3-D printing <i>Prof. Patrik Hoffmann (Empa)</i>	3D-Printed ceramics structure for the production of hydrocarbon fuels <i>Prof. Mirko Meboldt (ETHZ)</i>
11:30	Integrated platform for multi-process precision 3D Printing <i>Paul Delrot (EPFL)</i>	Digital Layer <i>Prof. Konrad Wegener (ETHZ)</i>
11:45	Deposition of functional fibers with hierarchically textured structures <i>Raja Chandran (EPFL)</i>	Toollife <i>Prof. Konrad Wegener (ETHZ)</i>
12:00	Advanced Manufacturing of Advanced Accelerator Components <i>Prof. Jens Gobrecht (PSI)</i>	Intelligent Design of Multi-Functional, Multi-Material Parts Fabricated for Sustainable AM <i>Prof. Kristina Shea (ETHZ), Prof. Ralph Spolenak (ETHZ)</i>
12:15	Single-digit nanopatterning of surfaces <i>Prof. Jens Gobrecht (PSI)</i>	AdMaTrans – Additive Manufacturing of Transparent Ceramics and Glasses <i>Prof. Thomas Graule (Empa)</i>
12:30	Advanced Manufacturing on PSI beamlines <i>Prof. Helena Van Swygenhoven-Moens</i>	Future industrial ceramic products using fused filament fabrication <i>Dr. Frank Clemens (Empa)</i>
12:45	Joint Lunch at the Empa Restaurant	
13:30	Group Discussions and Consortia Building	Group Discussions and Consortia Building
15:30	End of Workshop	

**Color Code**

Project Presentation addressing TFA 1 – Precision Free Form Manufacturing	Project Presentation addressing TFA 2 – Printed Electronics
Presentation of key capabilities that are relevant for research in Advanced Manufacturing	Project Presentation addressing TFA 3 – Sustainable Digital Manufacturing & Design