

## Workshop Program “Information Exchange and Consortia Building”, 6<sup>th</sup> July 2017

<b>09:30</b>	<b>Welcome and Registration</b>	<b>Entrance Hall</b>
<b>10:00</b>	<b>Introduction and overview</b> Dr. Lars Sommerhäuser, Program Manager SFA Advanced Manufacturing, Empa	<b>Auditoire</b> MC A1 272
<b>10:15</b>	<b>Micro-sensors by 3D printing for continuous and localized measurement of particulate and gaseous contaminants in cleanroom environment</b> , Prof. Dr. Jing Wang, Institute of Environmental Engineering, ETHZ	<b>Auditoire</b> MC A1 272
<b>10:30</b>	<b>3D Printing of multimaterial preforms and fibers for advanced sensing</b> Tung Nguyen, Laboratory of Photonic Materials and Fiber Devices FIMAP, EPFL	<b>Auditoire</b> MC A1 272
<b>10:45</b>	<b>3D fabricated elements for integrated manufacturing and monitoring</b> Dr. Helmut Schift, Laboratory for Micro and Nanotechnology, PSI	<b>Auditoire</b> MC A1 272
<b>11:00</b>	<b>Mapping of micro- and macroscopic properties of layers/devices for quantifying the inhomogeneities on large area surfaces/substrates</b> Prof. Dr. Ayodhya N. Tiwari, Laboratory for Thin Films & Photovoltaics, Empa	<b>Auditoire</b> MC A1 272
<b>11:15</b>	<b>Coffee Break</b>	<b>Entrance Hall</b>
<b>11:30</b>	<b>Perovskite based hybrid detectors for non-destructive testing</b> Dr. Aïcha Hessler-Wyser, Photovoltaics and thin-film electronics laboratory, EPFL	<b>Auditoire</b> MC A1 272
<b>11:45</b>	<b>X-ray sensors based on metal halide perovskites</b> Dr. Sergii Yakunin, Laboratory of Inorganic Chemistry, ETHZ	<b>Auditoire</b> MC A1 272
<b>12:00</b>	<b>Laser induced breakdown spectroscopy for advanced laser micromachining</b> Dr. Rolf Brönnimann, Laboratory for Transport at Nanoscale Interfaces, Empa	<b>Auditoire</b> MC A1 272
<b>12:15</b>	<b>Machine learning for automated manufacturing systems</b> Mikhail Langovoy, Machine Learning and Optimization, EPFL	<b>Auditoire</b> MC A1 272
<b>12:30</b>	<b>In situ quality control monitoring of AM process</b> Dr. Kilian Wasmer, Laboratory for Advanced Material Processing, Empa	<b>Auditoire</b> MC A1 272
<b>12:45</b>	<b>Q-Guard, an intelligent Process Control System</b> Dr. Jörg Heingärtner, Institute of Virtual Manufacturing, ETHZ	<b>Auditoire</b> MC A1 272
<b>13:00</b>	<b>Joint Buffet / Sandwich Lunch</b>	<b>Entrance Hall</b>
<b>13:45</b>	<b>Project Selection Process – Schedule and Criteria</b> Dr. Lars Sommerhäuser, Program Manager SFA Advanced Manufacturing, Empa	<b>Salle de Cours</b> MC B1 303
<b>14:00</b>	<b>Group Discussions and Consortia Building</b> all participants	<b>Salle de Cours</b> MC B1 303
<b>15:30</b>	<b>End of Workshop</b>	

Color Code

General and organizational topics

TFA 4 – Sensing Technologies

TFA 5 – Intelligent Systems and Advanced Automation