EPFL

FAST & HIGH PRECISION 3D PRINTING

Building E, Innovation Park, EPFL, 1015 Lausanne

COURSE PROGRAM

Thursday 24 October 2024			
TIME	**ACTIVITY**	**PRESENTER(S)**	**NOTE**
8h30 - 9h00	**Welcome + coffee (30 min)**		
9h00 - 10h45	**Introduction (105min)**		
25 min	Principles and state of the art	Christophe Moser	EPFL
10 min	Q&A		
25 min	3D Printing in the Watch Industry	Csilla Miko	Comadur, Swatch Group
10 min	Q&A		
25 min	Metal 3D Printing	Sébastien Lani	SIPBB
10 min	Q&A		
10h45-11h00	**Coffee Break (15 min)**		
11h00 - 12h10	**Case Studies (70 min)**		
25 min	3D Printing Biomaterials	Paul Delrot	Readily 3D
10 min	Q&A		
25 min	Mass Customization in the Hearing Aid Industry	Florian Furrer	SONOVA
10 min	Q&A		
12h10 - 14h00	**Lunch and Networking (110 min)**		
14h00 – 15h10	**Case Studies (70 min)**		
25 min	Fluidic Structures for Electrolysis	Ioakeim Sioutis	Rema
10 min	Q&A		
35 min	Discussion: Industrial Applications of 3D Printing	-	-
15h10 – 15h30	**Coffee Break (20 min)**		
15h30 - 16h30	**Design Tutorial (60 min)**	Ye Pu Sébastian Martinerie	EPFL EPFL
16h30 – 18h00	**Design Competition (90 min)**		

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Friday 25 October 2024			
TIME	**ACTIVITY**	**PRESENTER(S)**	**NOTE**
8h30 - 9h00	**Coffee (30 min)**		
9h00 - 10h30	**Case Studies (90 min)**		
20 min	Metal Flex System for Beam Steering Space	Florent Cosandier	Micromechanical and Horological Design Laboratory EPFL
10 min	Q&A		
20 min	High Temperature Polymer Fuel Injection for Race Cars	Sébastien Martinerie	Discovery Learning Laboratory EPFL
10 min	Q&A		
20 min	3D Direct Write Process in Laser Manufacturing	Yves Bellouard (TBD)	Galatea Lab EPFL
10 min	Q&A		
10h30 - 10h45	**Coffee Break (15 min)**		
10h45 - 12h15	**Case Studies (90 min)**		
20 min	Custom Design for Mouth Guards SLA	Naser Nasrollahzadeh	Laboratory of Biomechanical Orthopedics EPFL
10 min	Q&A		
20 min	Functional Two-photon Machines Excited by Ultrasound	Selman Sakar	MicroBioRobotic Systems Laboratory
10 min	Q&A		
20 min	Transfer Printing of Functional Devices	Jürgen Brugger	Microsystems Laboratory EPFL
10 min	Q&A		
12h15 - 14h00	**Lunch and Networking (105 min)**		
14h00 - 16h00	**Lab Tours (120 min)** SPOT AFA CMi		
16h00 - 16h30	**Flying Top 3D Print-out Post-Processing (30 min)**		

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16h30 - 17h00	**Flying Top Contest (30 min)**		
17h00 - 18h00	**Trophy Presentation and Closing (60 min)**		