VAM workshop: novel geometry and hardware implementation, optimization light/chemistry , material and applications

Friday April 10th, 2026 @ EPFL

Auditorium BM 5202

Welcome Coffee		8:30-8:50
Welcoming, workshop Overview	Christophe Moser, EPFL	8:50-9:00
SPIE student chapter EPFL	Eksha Rani Chaudhary, Iwona Swiderska , EPFP	9:00-9:10
Session I: Volumetric Printing: Geometry, hardware implementation, Coherent vs incoherent		
Title: RAFT-polymerized materials in T-VAM and some considerations for scaling up the printing volume	Hayden Taylor – University of California Berkeley	9:10-9:45
Title : Toward High-Resolution Volumetric Additive Manufacturing with scanned Bessel Beam	Justin Wolfe- Lawrence Livermore National Laboratory	9:45-10:10
Title: Multi-Scale Holographic Volumetric 3D Printing with a Phase Light Modulator	Student: Maria Alvarez Castaño (EPFL)	10:10-10:25
Title : Substrate mapping for VAM overprinting	Anthony Ort – National Research Council Canada	10:25-10:50

Break

Session II: Optimization: Light & Chemistry		
Title : On the shoulders of giants: Look to CT to advance tomographic printing	Daniel Webber, National Research Council Canada:	11:15-11:40
Title: Coupled Ray-Optical and Photochemical Optimization for Tomographic Volumetric Additive Manufacturing	Student: Felix Wechsler , EPFL	11:40-11:55

SISO-VAM: Scale invariant Sinogram Optimization for VAM	Student: Seungpyo Woo, University of California Berkeley	11:55-12:10
Title: Tomographic Volumetric Additive Manufacturing in Flow	Hazel Rose Galvan: Lawrence Livermore National Laboratory	12:10-12:35
Title: multiscale 3D printer combining single-photon TVAM and 2PP	Student: Buse Unlu, EPFL	12:35-12:50

Lunch Break

Session III: Materials ,& applications		
Title : Vēnī, vīdī, imprimāvī 3D Why we need 3D Printing to be better than the Romans	Bastian Rapp– Freiburg University	14:00-14:30
Title : Context-aware Printing to Shape Materials and Control Living Cells"	Student: Sammy Florczak , Utrecht University	14:30-14:45
Title: Tomographic Printing in a Chip: A Versatile Platform for Biomimetic 3D Organ-on-Chip	Riccardo Rizzo, EPFL	14:45-15:00
Title : Volumetric Printing of Collagen	Marcy Zenoby Wong, ETH Zurich	15:00-15:30
Title : Advanced Biomaterials for Tomographic Volumetric Bioprinting	Xiao Hua Qin:ETH Zurich	15:30-15:55
Title : Shape-Morphing Structures Enabled by Spatially Programmed Crystallization via Volumetric Tomographic 3D Printing	Arnaud Spangenberg : Institut des Sciences des Matériaux Mulhouse	15:55-16:20
Closing words	Christophe Moser	16:20-16:30
Apero		16:30-17h30