

Friday, April 8

Future 3D Additive Manufacturing | The 3DMM20 Conference

Breakfast		
8:45 – 9:00 AM	Welcome	
9:00 – 10:00 AM	Volumetric Printing by Reverse Tomographic Projections in Non Transparent Resins	<b>Christophe Moser</b>
10:00 – 10:30 AM	Coffee Break	
10:30 – 11:15 AM	Logic and Memory Devices Realized by 2D/3D-Printing of Functional Materials	<b>Jasmin Aghassi</b>
11:15 – 12:00 PM	Exploring Small $\beta$ -Sheet Protein Folding Motifs as a Model System for the Design of Miniaturized Proteins	<b>Franziska Thomas</b>
12:00 – 12:45 PM	Nanophotonic Devices by Inkjet Printing	<b>Uli Lemmer</b>
12:45 – 1:00 PM	Best Poster Award & Farewell	
1:00 – 1:45 PM	Lunch I	
2:00 – 2:45 PM	Lunch II	
	Departure	

# 3D Nano- and Micro-Manufacturing: Technology and Technical Application

# PROGRAM

Future 3D Additive Manufacturing | The 3DMM20 Conference  
3D Nano- and Micro-Manufacturing:  
Technology and Technical Application

# PROGRAM

April 3 – 8, 2022 | Schöntal Monastery, Germany



Monday, April 4

Breakfast	
9:00 – 9:15 AM	Opening & Welcome
9:15 – 10:15 AM	Additive Manufacturing 2.0: Moving Beyond Geometry for the Printing of Functional, Multi-Material Products <b>Richard Hague</b>
10:15 – 10:45 AM	Coffee Break
10:45 – 11:45 AM	Multi-Material Micro-Stereolithography Using Multiple Droplets of Photocurable Materials <b>Shoji Maruo</b>
11:45 – 12:30 PM	Lunch I
12:45 – 1:30 PM	Lunch II
1:30 – 2:30 PM	3D Printed Organic-Inorganic and Nano-Macro Scale Hybrids for Sensor and Biomedical Applications <b>Rainer Adelung</b>
2:30 – 3:30 PM	Laser-Based Additive Micromanufacturing for Cell Growth <b>Maria Farsari</b>
3:30 – 4:00 PM	Coffee Break
4:00 – 5:00 PM	High-Throughput Two-Photon Lithography Via Temporally Focused Light Sheets <b>Sourabh Saha</b>
5:00 – 5:20 PM	Selected Talk: Fast and Continuous Projection Two-Photon Printing <b>Paul Somers</b>
5:20 – 5:40 PM	Selected Talk: Bringing Electrochemical 3D Printing to the Nanoscale <b>Dmitry Momotenko</b>
5:40 – 6:00 PM	Flashtalks
6:00 – 7:00 PM	Poster Session I
7:00 PM	Dinner I
8:00 PM	Dinner II

Tuesday, April 5

Breakfast	
9:00 – 9:15 AM	Welcome
9:15 – 10:15 AM	4D Micro-Structures – Functionality with a Splash of Colour <b>Larisa Florea</b>
10:15 – 10:45 AM	Coffee Break
10:45 – 11:45 AM	Bringing Color and Life to 3D Robotics <b>Maria Guix</b>
11:45 – 12:30 PM	Lunch I
12:45 – 1:30 PM	Lunch II
1:30 – 2:15 PM	3D Printing of Inherently Nanoporous Polymers Via Polymerization-Induced Phase Separation: Properties and Applications <b>Pavel Levkin</b>
2:15 – 3:15 PM	Toward MEMS Direct Fabrication by Two Photon Lithography <b>Virgilio Mattoli</b>
3:15 – 4:00 PM	The Importance of Design for Additive Manufacturing: Creating Performance Materials Using Computer Aided Engineering <b>Marta Ruscello</b>
4:00 – 4:30 PM	Coffee Break
4:30 – 5:30 PM	Mesoscale Laser 3D Printing: From Renewable Plant-Based Resins to Crystalline Inorganics <b>Mangirdas Malinauskas</b>
5:30 – 5:50 PM	Selected Talk: Direct Deposition of High-Resolution 3D Nanostructures by ALAM <b>Sarah Tymek</b>
5:50 – 6:10 PM	Selected Talk: Tomographic Volumetric Additive Manufacturing of Silicon Oxycarbide Ceramics <b>Jorge Madrid-Wolff</b>
6:10 – 6:30 PM	Selected Talk: 3D Printed Microstructures via Photo-RAFT Polymerization <b>Arnaud Spangenberg</b>
6:30 – 6:50 PM	Selected Talk: Nanoct with in Situ Mechanical Testing as a Tool for the Characterization of 3D Additive Manufactured Mechanical Metamaterials <b>Rafaela Debastiani</b>
7:00 PM	Dinner
8:00 PM	Dinner II

Wednesday, April 6

Breakfast	
8:45 – 9:00 AM	Welcome
9:00 – 10:00 AM	Next Generation 3D Printing: The Emergence of Enabling Materials <b>Bastian Rapp</b>
10:00 – 10:10 AM	Innovations in 2PP-Based 3D Printing open up New Horizons in Research and Industry <b>Martin Hermatschweiler</b>
10:10 – 10:45 AM	Coffee Break
10:45 – 11:30 AM	Dynamic Functional Photoresists for Light Driven Additive Manufacturing <b>Christopher Barner-Kowollik</b>
11:30 – 12:15 PM	Lunch I
12:30 – 1:15 PM	Lunch II
2:00 – 6:00 PM	Social Program
7:00 PM	Conference Dinner

Thursday, April 7

Breakfast	
9:00 – 9:15 AM	Welcome
9:15 – 10:15 AM	Structurally Colorful Optical Elements With Sub-Micron 3D and 4D Printing <b>Joel Yang</b>
10:15 – 10:45 AM	Coffee Break
10:45 – 11:45 AM	3D Printing of Bioinspired Materials <b>André Studart</b>
11:45 – 12:30 PM	Lunch I
12:45 – 1:30 PM	Lunch II
1:30 – 2:30 PM	Biofabrication Using Spider Silk Proteins <b>Thomas Scheibel</b>
2:30 – 3:15 PM	3D Direct Laser Writing in Synthetic Cells <b>Kerstin Göpfrich</b>
3:15 – 3:35 PM	Selected Talk: 3D Extrusion Printing of Smart Biocompatible Inks for Bioengineering Applications <b>Veronika Magdanz</b>
3:35 – 4:00 PM	Coffee Break
4:00 – 5:00 PM	Efficient, Compact, Complex Hardware Via Additive Manufacturing <b>Luis Fernando Velásquez-Garcia</b>
5:00 – 5:20 PM	Selected Talk: In-Situ Material Replacement for Efficient High-Resolution Multi-Material 3D Laser Printing <b>Robert Kirchner</b>
5:20 – 5:50 PM	Flashtalks
5:50 – 6:50 PM	Poster Session II
7:00 PM	Dinner
8:00 PM	Dinner II

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