

## MaP Graduate Symposium 2023 - PROGRAMME

08.00	<i>Registration</i>
08.45	Opening Remarks
09.00	<b>Ioanna Mitropoulou</b> , <i>Digital Building Technologies, D-ARCH</i> Non-Planar Layered Morphologies
	<b>Lorenza Garau Paganella</b> , <i>Experimental Continuum Mechanics / Macromolecular Engineering, D-MAVT</i> 3D Hydrogel Platforms to Study Skin Cell Response to Hydrostatic Pressure
	<b>Mahmoud Medany</b> , <i>Acoustic Robotics for Life Science and Healthcare, D-MAVT</i> Precision Guided Non-Invasive Treatment of Aneurysms Using Acoustic Robotics
	<b>Luca Marin</b> , <i>Materials Theory, D-MATL</i> Density Functional Theory Description of Xenon for Light Dark Matter Direct Detection
	<b>Ipek Efe</b> , <i>Multifunctional Ferroic Materials, D-MATL</i> Nanoscale Design of Layered Ferroelectrics for Future Smart Electronics
10.00	<i>Coffee Break &amp; Poster Session</i>
11.00	<b>Kostas Parkatzidis</b> , <i>Polymeric Materials, D-MATL</i> Environmentally Friendly Light-driven Chemical Recycling of Polymers Back to Virgin Monomers
	<b>Florence Müller</b> , <i>Soft Materials, D-MATL</i> A Modular Silica Core-Shell Synthesis Particle Platform: Rough, Sticky and yet Reversible Colloidal Gels
	<b>Monika Zimmermann</b> , <i>Nanoparticle Systems Engineering, D-MAVT</i> Radiotherapy Enhancement by Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXenes
	<b>Julian Schmid</b> , <i>Multiphase Thermofluidics and Surface Nanoengineering, D-MAVT</i> Microscale Investigation on Interfacial Removal of Microfoulants from Soft Materials
	<b>Ali Jafarabadi</b> , <i>Structural Mechanics and Monitoring, D-BAUG</i> 4D Printing of Recoverable Buckling-Induced Architected Iron-Based Shape Memory Alloys
12.00	<i>Lunch &amp; Poster Session</i>

<b>MaP Award 2023</b>	
13.30	<b>Dr. Lukas Gerken</b> , <i>Nanoparticle Systems Engineering, D-MAVT</i> Rational Design of Nanoparticle Radioenhancers for Precision Radiotherapy
	<b>Dr. Mattia Halter</b> , <i>Computational Nanoelectronics, D-ITET</i> Ferroelectric Memristors for Neuromorphic Applications: Design, Fabrication and Integration
	<b>Dr. Amogh Kinikar</b> , <i>Magnetism and Interface Physics, Empa &amp; D-MATL</i> New Polymerization and Post-Synthesis Strategies in On-Surface Synthesis
	<b>Dr. Riccardo Rizzo</b> , <i>Tissue Engineering and Biofabrication, D-HEST</i> Development and Application of Photosensitive Bioresins for 3D Biofabrication Strategies. From Volumetric Printing to Two-Photon Stereolithography
15.00	<i>Coffee Break</i>
15.30	<b>Andrea Rich</b> , <i>Metal Physics and Technology, D-MATL</i> Amorphous Magnesium-Fiber Reinforced Bone Cement with Enhanced Mechanical and Biological Properties
	<b>Aishwarya Vishwakarma</b> , <i>Magnetism and Interface Physics, D-MATL</i> Decoupling Pentacene Molecules on a Metallic Substrate: Insights into Charge Transfer, Spin Interactions, and Dynamics at the Interface.
	<b>Simon Wintersteller</b> , <i>Chemistry and Materials Design, D-ITET</i> Unravelling the Structure and Crystallization Mechanism of Amorphous Nanoparticle Phase-Change Materials
	<b>Julia Baumgartner</b> , <i>Sustainable Food Processing, D-HEST</i> Efficient Extraction of Lipid Droplets from Cell-Wall Deficient Microalgae with Pulsed Electric Fields
	<b>Wanwan Qiu</b> , <i>Bone Biomechanics, D-HEST</i> A Synthetic Dynamic Photoresin for Fast Volumetric Bioprinting of Functional Hydrogel Constructs
16.35	Flash Poster Presentations
16.50	Industry Presentations
17.15	Election MaP Student Representative Idea Pitches for a Novel Transdisciplinary Format
17.40	Award Ceremony
18.00	<i>Networking Reception (Apéro Riche)</i>