

MaP Graduate Symposium 2019 - PROGRAM

08.00	<i>Registration</i>
08.50	Prof. André R. Studart, MaP Director Opening remarks
09.00	Elia A. Guzzi, Macromolecular Engineering, D-MAVT Universal Nanoparticle-based Ink for Biomaterials Additive Manufacturing
09.12	Murielle Schreck, Multifunctional Materials, D-MATL The Beauty Behind Hydrogen Production – Titania Nanoparticle-based Aerogels as Photocatalysts
09.24	Michael Gerlt, Mechanics & Experimental Dynamics, D-MAVT High Throughput Continuous Cell Secretome Separation Inside Microscale Droplets by Means of Acoustophoresis
09.36	Laura Piveteau, Functional Inorganic Materials, D-CHAB Atomistic Insights Into the Structure of Colloidal Semiconductor NC Using Advanced NMR Spectroscopy
09.48	Pitches by: Cyprien Hoelzl, Structural Mechanics & Monitoring, D-BAUG Data-empowered Assessment of Railway Infrastructure Nadine Lobsiger, Functional Materials Laboratory, D-CHAB A <i>S. Cerevisiae</i> -based Biosensor Material for the Detection of Endocrine-Disrupting Chemicals: Reliability, Stability and Analysis of Environmental Samples Oleg Testoni, Composite Materials & Adaptive Structures, D-MAVT A Novel Concept of Shape-Adaptable Sandwich Panel with Shape Memory Alloy Actuators
10.00	<i>Coffee Break & Poster Session</i>
11.00	Paolo Testa, Mesoscopic Systems, D-MATL & PSI Magnetically Addressable Shape-memory and Stiffening in a Composite Elastomer
11.12	Marion Frey, Wood Materials Science, D-BAUG & Empa Tunable Wood and Design of High-performance Cellulose Fiber Materials
11.24	Konstantin Schulz-Schönhagen, Functional Materials Laboratory, D-CHAB Continuous Production of a Shelf-stable Living Material as a Biosensor Platform
11.36	Aurelio A. Rossinelli, Optical Materials Engineering, D-MAVT Highly Luminescent Colloidal Core/Shell Nanoplatelets with Graded Shell Composition
11.48	Pitches by: Peter Benedek, Materials & Device Engineering, D-ITET Surface Phonons in Li Ion Battery Cathode Materials Alain Reiser, Nanometallurgy, D-MATL Electrohydrodynamic Redox 3D Printing: Chemically Architected Metals at the Submicron Scale Raphael Brechbühler, Optical Materials Engineering, D-MAVT Dark Optical Modes on Periodically Patterned Plasmonic Films
12.00	<i>Lunch & Poster Session</i>

MaP Award 2019	
13.45	Dr. Nicolas Broguière , <i>Tissue Engineering & Biofabrication, D-HEST</i> Engineering of Synthetic Extracellular Matrix Analogues Supporting and Guiding Neurons
14.05	Dr. Vladimir Paunović , <i>Advanced Catalysis Engineering, D-CHAB</i> Catalytic Processes for Natural Gas Valorization via Bromine Chemistry
14.30	<i>Coffee Break</i>
15.15	Matthias Haug , <i>Complex Materials, D-MATL</i> Cold Sintering – A New Ceramic Processing Route, Investigated Using In-situ X-Ray Synchrotron Tomography
15.27	Mario Arcari , <i>Food & Soft Materials, D-HEST</i> Nanostructural Properties and Twist Periodicity of Cellulose Nanofibrils with Variable Charge Density
15.39	Oksana Dudaryeva , <i>Macromolecular Engineering, D-MAVT</i> Biophysical Regulation of Single Cell Fate in 3D
15.51	Hendrik Th. Spanke , <i>Soft & Living Materials, D-MATL</i> Dynamics of Membrane Wrapping of Microparticles
16.03	Tian Tian , <i>Interface & Surface Engineering of Nanomaterials, D-CHAB</i> Two-dimensional Materials as High-pass Filter of van der Waals Interactions
16.15	Flash Poster Presentations
16.30	My Story: Science Translated to Meaningful Applications with Michele Magno (Mithras), Gabriel Puebla-Hellmann (QZabre) & Mariia Timofeeva (PolarNon)
17.00	Industry Presentations by avantama, BASF, Hilti, Mettler Toledo, Oerlikon Balzers, Sensorion, Siga & SuSoS
17.20	Award Ceremony
17.50	<i>Industry Apéro Riche</i>