

MaP Graduate Symposium 2018 - PROGRAM

08.00	<i>Registration</i>
08.45	Prof. André R. Studart, MaP Director Opening remarks
08.55	Peter Reichert, Mechanics & Experimental Dynamics, D-MAVT Acoustic Particle Manipulation with Thin Film Piezoelectric Transducers
09.10	Marta Vidiella del Blanco, Wood Materials Science, D-BAUG & Empa Wood Membrane for Oil-Water Separation
09.20	Nevena Arsenović, Drug Formulation & Delivery, D-CHAB New Materials for the 3D Printing of Biodegradable Personalized Medical Devices
09.30	Stefano Danzi, Nanometallurgy, D-MATL On-Demand Repair of Metal Films by Intrinsic Heat Source Healing
09.40	Ramachandra Kuravi, Experimental Continuum Mechanics, D-MAVT & Empa A Histology Based Investigation of Passive Mechanical Response of Skeletal Muscle Tissue Incorporating of Mesoscale Structure
09.50	Pascal Bertsch, Food Process Engineering, D-HEST Stabilization of Air/Water Interfaces by Nanocrystalline Cellulose
10.00	<i>Coffee Break & Poster Session</i>
11.00	Dr. Xiao-Hua Qin, Materials Meet Life – Biointerfaces, Empa Dynamic Phototuning of 3D Cellular Microenvironments
11.15	Gabriele Colombo, Soft Materials, D-MATL High Speed Confocal Imaging of Colloidal Gels
11.25	Christian Goldhahn, Wood Materials Science, D-BAUG & Empa Catalytically Active Cellulose Fibers by Easy and Versatile Enzyme Immobilization
11.35	Marie Kopp, Biochemical Engineering, D-CHAB Microfluidic Diffusion Analysis of the Size Distribution and Microrheological Properties of Antibody Solutions at High Concentrations
11.45	Alain Reiser, Nanometallurgy, D-MATL Reduction-Based EHD-Printing: Submicronscales 3D Printing of Chemically Architected Metals
11.55	Nikola Dordevic, Nanoelectronics, D-ITET Machine Learning for Data Analysis of Transient Photoluminescence: Application to Ultrafast Spectroscopy of CsPbBr ₃ Perovskite Nanocrystals
12.05	<i>Lunch & Poster Session</i>

MaP Award 2018	
13.45	Dr. Hortense Le Ferrand , <i>Complex Materials, D-MATL</i> Magnetically-Driven Assembly of Bio-Inspired Multifunctional Composites
14.05	Dr. Giulia Morgese , <i>Polymer Surfaces Group, Surface Science & Technology, D-MATL</i> Engineering Inorganic and Cartilage Surfaces by Topologically Different Poly(2-Oxazolines)
14.25	Dr. Felix Rechberger , <i>Multifunctional Materials, D-MATL</i> Particle Based Aerogels: Functional Nanostructured Bulk Materials
14.45	<i>Coffee Break</i>
15.30	Jakub Jagielski , <i>Interface & Surface Engineering of Nanomaterials, D-CHAB</i> Aggregation-Induced Emission in Lamellar Solids of Colloidal Perovskite Quantum Wells
15.45	Marie Francine Lagadec , <i>Nanoelectronics, D-ITET</i> Lithium Ion Battery Separators: Characterisation and Design
15.55	Dr. Maria Mitsi , <i>Food & Soft Materials, D-HEST</i> Assembly of Fibronectin Fibers at the Air-Liquid Interface
16.05	Raphael Brechbühler , <i>Optical Materials Engineering, D-MAVT</i> Probing Electromagnetic Modes at Optical Frequencies with Eu ³⁺ -Doped Nanocrystals
16.15	Bumjin Jang , <i>Multi-Scale Robotics, D-MAVT</i> Designs of Micro-Nanoswimmers and Their Locomotion in Viscous Fluids
16.25	Christoph Guntlin , <i>Functional Inorganic Materials, D-CHAB & Empa</i> Nanocrystalline Pyrochlore Fe(OH)F ₂ as Li-Ion Cathode Material
16.35	Flash Poster Presentations
16.45	Industry Presentations by avantama, BASF, Bühler, Flisom, Sensirion & SuSoS
17.15	Award Ceremony
17.45	<i>Industry Apéro Riche</i>