

MaP Graduate Symposium 2020 – PROGRAM

Wednesday 01 July 2020

13.00	Opening remarks
13.15	Bruno Marco-Dufort , <i>Macromolecular Engineering, D-MAVT</i> Design of Dynamic Biomaterials for Thermal Stabilisation of Biologics
13.28	Claudius Dietsche , <i>Bioanalytics, D-BSSE</i> Deterministic Co-encapsulation of Beads and Cells in nL-droplets for High Throughput Multiplexed Single-cell Analysis
13.41	Dr. Joydeb Mandal , <i>Surface Science & Technology, D-MATL</i> Impact of Dispersity and Hydrogen Bonding on the Lubricity of Poly(acrylamide) Brushes
13.54	Nicole Aegerter , <i>Composite Materials & Adaptive Structures, D-MAVT</i> Pultrusion of Novel Fiber-reinforced Thermoplastic Composite Intermediate Materials
14.07	MaP Mastermind Quiz #1
14.15	<i>Break</i>
MaP Award 2020	
14.25	Dr. Felix Eltes , <i>Multifunctional Ferroic Material, D-MATL</i> Barium Titanate Pockels Modulators Integrated With Silicon Photonic Circuits
14.45	Dr. Flavia Timpu , <i>Optical Nanomaterial Group, D-PHYS</i> Linear and Nonlinear Optics With Metal Oxides: From Single Nanoparticles to Metasurfaces
15.05	Dr. Lucas Armbrecht , <i>Bioanalytics, D-BSSE</i> Microfluidics for Functional Analysis of Circulating Tumor Cells
15.25	Poster Session
16.00	<i>Break</i>
16.10	Round Tables
17.00	Award Ceremony Image Contest, Industry Poster Awards, MaP Award
17.15	Closing & MaP Mixer
17.45	End of Symposium Day 1

Thursday 02 July 2020

09.00	Opening remarks
09.05	Julian Koch , <i>Functional Materials, D-CHAB</i> A DNA-of-things Storage Architecture to Create Materials with Embedded Memory
09.18	Aniket Sandip Mule , <i>Optical Materials Engineering, D-MAVT</i> How Magic-sized Clusters Grow: Insights from Experiments
09.31	Dr. Nako Nakatsuka , <i>Biosensors & Bioelectronics, D-ITET</i> DNA Aptamer-functionalized Quartz Nanopipettes for Serotonin Sensing from Neurons
09.44	Remo Schächli , <i>Renewable Energy Carriers, D-MAVT</i> Methanol from Sunlight and Air Using a Modular Solar Dish Reactor System
09.57	MaP Mastermind Quiz #2
10.05	Flash Poster Presentations
10.20	<i>Break</i>
10.30	Tommaso Magrini , <i>Complex Materials, D-MATL</i> Bioinspired Functional Composites: Transparent, Strong, and Tough
10.43	Federico Balduini , <i>Materials Integration & Nanoscale Devices, IBM Research</i> An Inside View Into an Artificial Neuron: Self-heating of Vanadium Dioxide Devices
10.56	Lukas Roder , <i>Food & Soft Materials, D-HEST</i> Light Gold: A Colloidal Approach Using Latex Templates
11.06	Anastasia Terzopoulou , <i>Multi-Scale Robotics, D-MAVT</i> Metal-Organic Frameworks for Biomedical Microrobots
11.22	MaP Mastermind Quiz #3
11.30	<i>Break</i>
11.35	Award Ceremony MaP Poster Prize, People's Choice Poster Prize, MaP Mastermind
11.50	Closing