



# Conference "Dynamic Wetting of Flexible, Adaptive, and Switchable Substrates"

## Montag, 8. November 2021

### Short talks - Aula, Kollegengebäude I (11:00 - 12:20)

time	[id] title	presenter
11:00	[1] Efficient simulation of wetting dynamics on elastic substrates	ALAND, Sebastian
11:20	[3] Memory effects of PNiPAAm brushes in different atmospheres	SCHUBOTZ, Simon
11:40	[37] Lattice Boltzmann simulations of liquid lens coalescence	SCHEEL, Thomas
12:00	[35] HySS – a new wetting regime for on-demand trapping and release of drops	RAJAK, Anil

### Short talks - Aula, Kollegengebäude I (13:45 - 15:30)

time	[id] title	presenter
13:45	[8] Smart surfaces with wetting-programmed topography	IONOV, Leonid
14:10	[5] Droplets on substrates with moving and oscillating wettability patterns	GRAWITTER, Josua
14:35	[6] Wetting of bio-inspired, stimulus-responsive polymer surfaces by lipid vesicles	WESENBERG, Lucia WEISSENFELD, Felix
15:00	[49] Drop impact on very thin liquid films on top of hard solid substrates	HARTH, Kirsten

## Dienstag, 9. November 2021

### Short talks - Aula, Kollegiengebäude I (09:45 - 10:30)

time	[id] title	presenter
09:45	[4] Dynamic Wetting of Self-Assembled Monolayers functionalized with Photoresponsive Arylazopyrazoles	ARNDT, Niklas Björn
10:10	[30] Rigid and Soft Wetting at Nanoscale	KUBOCHKIN, Nikolai

### Short talks - Aula, Kollegiengebäude I (11:00 - 12:15)

time	[id] title	presenter
11:00	[11] Dynamic wetting phenomena and contact angle hysteresis on polymer brushes and gels	HAUER, Lukas BADR, Rodrique
11:25	[20] Switchable and Adjustable Fluid Transport and Wetting Properties in Polypyrrol-Silicon and Ceramic-based Inverse Opal Structures	GALLARDO DOMÍNGUEZ, Laura
11:50	[10] Dynamics of liquid droplets on switchable substrates – from microscopic to mesoscopic models	GUREVICH, Svetlana HEUER, Andreas

### Short talks - Aula, Kollegiengebäude I (13:45 - 15:30)

time	[id] title	presenter
13:45	[9] Dynamic Wetting and Molecular Switching of Photo-Responsive Arylazopyrazole Phosphonic Acid Monolayers on Aluminum Oxide Surfaces	BRAUNSCHWEIG, Björn
14:10	[27] Droplet motion directed by reversible stiffness gradient on soft switchable surfaces	NEKOONAM, Niloofar
14:35	[44] Superhydrophobic surfaces using ultra-short pulse structuring of thin metals	SCHÄFER, Fabian
15:00	[13] Liquid Dewetting from Visco-Elastic Substrates	REMINI, Khalil SCHMELLER, Leonie

**Mittwoch, 10. November 2021****Short talks - Aula, Kollegiengebäude I (09:45 - 10:30)**

time	[id] title	presenter
09:45	[25] Dynamic wetting and dewetting processes on adaptive surfaces	LI, Xiaomei
10:10	[18] Water Induced Polymer Reorientation at a Polystyrene/Polyacrylic Acid Surface	ENCHEVA, Mirela

**Short talks - Aula, Kollegiengebäude I (11:00 - 12:15)**

time	[id] title	presenter
11:00	[36] Mathematical modeling and simulation of substrate-flow interaction using generalized gradient flows	PESCHKA, Dirk
11:25	[32] Moving wetting ridges: Impact of surface rheology?	JEON, Hansol
11:50	[34] Condensing drops on soft substrates	BOUILLANT, Ambre ESSINK, Martin HENKEL, Christopher

**Short talks - Aula, Kollegiengebäude I (13:15 - 14:00)**

time	[id] title	presenter
13:15	[12] A highly accurate extended discontinuous Galerkin method for multiphase problems with contact lines	BECK, Lauritz
13:40	[2] News from adaptive transport through coupled flow paths	PFOHL, Thomas