

SPP 2171 Spring Conference: Dynamic Wetting of Flexible, Adaptive, and Switchable Substrates

Montag, 17. Februar 2025

Short Talks: Short Talks - Staudinger Lecture Hall (14:50 - 15:40)

-Vorsitzende der Sitzung: Hans-Jürgen Butt

time	[id] title	presenter
14:50	[9] Breaking Liquid Diodic Strucutres	HANTMAN, Yotam
15:10	[24] High-Order Methods for Wetting and Dewetting Phenomena on Soft and Rigid Substrates including Heat transfer	MIAO, Chen

Short Talks - Staudinger Lecture Hall (16:35 - 17:50)

-Vorsitzende der Sitzung: Sabine Ludwigs

time	[id] title	presenter
16:35	[27] Droplets on soft sheets form lenses and create wrinkling patterns	SULTAN, Salik
16:55	[3] Non-monotonic motion of sliding droplets on strained soft solids	KARPITSCHKA, Stefan
17:15	[36] The role of substrate mechanics in osmotic biofilm spreading	PIETZ, Anthony

Dienstag, 18. Februar 2025

Short Talks: Short Talks - Staudinger Lecture Hall (09:40 - 10:30)

-Vorsitzende der Sitzung: Ralf Seemann

time	[id] title	presenter
09:40	[31] Synthesis, polymerization and characterization of dye-labeled polymethacrylate brushes	DECKER, Jonah STEUP, Sören
10:00	[18] Hydrodynamic effects in adhering vesicles on periodically modulated substrates	WESENBERG, Lucia

Short Talks: Short Talks - Staudinger Lecture Hall (11:00 - 12:15)

-Vorsitzende der Sitzung: Holger Stark

time	[id] title	presenter
11:00	[7] Adaptive wetting device based on conducting polymers	LU, Junqi
11:20	[4] Wetting of Surface Grafted Hydrophilic-b-Hydrophobic Block Copolymer Brushes	LEIBAUER, Benjamin
11:40	[43] Dynamic wetting of self-assembled monolayers and polymer brushes functionalized with molecular photoswitches	Prof. RAVOO, Bart Jan

Short Talks: Short Talks - Staudinger Lecture Hall (14:40 - 15:30)

-Vorsitzende der Sitzung: Doris Vollmer

time	[id] title	presenter
14:40	[34] Contact dynamics and morphology under drops impacting an oil-covered substrate	HARTH, Kirsten
15:00	[14] Gradient dynamics model for volatile binary mixtures including Marangoni flows	DIEKMANN, Jan

Mittwoch, 19. Februar 2025

Short Talks: Short Talks - Staudinger Lecture Hall (09:40 - 10:30)

-Vorsitzende der Sitzung: Kirsten Harth

time	[id] title	presenter
09:40	[19] Dynamics of a sessile drop exposed to a surface acoustic wave	KONDIC, Lou
10:00	[2] Stood-up drops as a novel, easiest and fastest way to measure receding contact angles	WILLERS, Thomas

Short Talks: Short Talks - Staudinger Lecture Hall (11:00 - 12:15)

-Vorsitzende der Sitzung: Dorothea Helmer

time	[id] title	presenter
11:00	[11] Swelling of a polymer brush up to 100% relative humidity	SCHUBOTZ, Simon
11:20	[17] Thermally activated swelling and wetting transition of frozen polymer brushes: a new concept for surface functionalization	BUONAIUTO, Luciana
11:40	[29] Light response lamellar structures based on carbon nanoparticles and polymer matrix	SADILOV, Ilia

Short Talks: Short Talks - Staudinger Lecture Hall (14:40 - 15:05)

-Vorsitzende der Sitzung: Stefan Karpitschka

time	[id] title	presenter
14:40	[16] z-GrAdd_Facile Fabrication of Wettability Gradients Via DLP 3D Printing for Liquid Manipulation Applications	NEKOONAM, Niloofar

Donnerstag, 20. Februar 2025

Short Talks: Short Talks - Staudinger Lecture Hall (09:40 - 10:05)

-Vorsitzende der Sitzung: Sebastian Aland

time	[id] title	presenter
09:40	[35] Beyond the Cassie-Baxter Model: New Insights for Predicting Imbibition in Complex Systems	FRICKE, Mathis

Short Talks: Short Talks - Staudinger Lecture Hall (14:40 - 15:30)

-Vorsitzende der Sitzung: Stefan A. L. Weber

time	[id] title	presenter
14:40	[5] Biomolecular condensates wetting membranes - dynamical insights from numerical simulations	ALAND, Sebastian
15:00	[39] Stimulus Responsive Polymer Brushes for Control of Static and Dynamic Wetting with Lipid Vesicles	WEISSENFELD, Felix

Short Talks: Short Talks - Staudinger Lecture Hall (16:35 - 17:50)

-Vorsitzende der Sitzung: Dan Daniel

time	[id] title	presenter
16:35	[15] Shape of polystyrene droplets on soft PDMS: Exploring the gap between theory and experiment at the three-phase contact line	SEEMANN, Ralf Herr ERHARDT, André
16:55	[22] Charge separation at contact lines slows down the breakup of liquid bridges on surfaces	RATSCHOW, Aaron
17:15	[42] Electrostatic Surface Charging by Water Dewetting	KNORR, Nikolaus

Freitag, 21. Februar 2025

Short Talks: Short Talks - Staudinger Lecture Hall (09:40 - 10:30)

-Vorsitzende der Sitzung: Uwe Thiele

time	[id] title	presenter
09:40	[1] Does the topology of polymer brushes determine their sorption characteristics in vapors?	YONG, Huaisong
10:00	[41] Evaporation near the contact lines of droplets and rivulets on topographically complex surfaces	KUBOCHKIN, Nikolai

Short Talks: Short Talks - Staudinger Lecture Hall (11:00 - 12:15)

-Vorsitzende der Sitzung: Rüdiger Berger

time	[id] title	presenter
11:00	[48] Slide electrification	BUTT, Hans-Jürgen
11:20	[10] Time evolution of surface charges deposited by evaporating water droplets	SINGH, NITISH
11:40	[23] Spontaneous charge separation by drop motion across of a hydrophobic tube	SAEIDIHARZAND, Shaghayegh