

**13:00 - 14:00**

Registration, Lunch & First Coffee

**14:00 - 14:50**

**Keynote**

Chair: H.-J. Butt

**Drops dance and explode on lubricated surfaces**

Dan Daniel



**14:50 - 15:40**

**Short Talks**

Chair: H.-J. Butt

**Breaking Liquid Diodic Strucutres**

Yotam Hantman



**High-Order Methods for Wetting and Dewetting Phenomena on Soft and Rigid Substrates including Heat transfer**

Chen Miao



**15:40 - 16:35**

Coffee Break

**16:35 - 17:50**

**Short Talks**

Chair: S. Ludwigs

**Droplets on soft sheets form lenses and create wrinkling patterns**

Salik Sultan



**Non-monotonic motion of sliding droplets on strained soft solids**

Stefan Karpitschka



**The role of substrate mechanics in osmotic biofilm spreading**

Anthony Pietz



**8:00 - 9:00**

Coffee and Chats

**9:00 - 9:40**

**Keynote**

Chair: R. Seemann

**Observing the structure of non-fouling polymer brushes in aqueous solutions**  
Ognen Pop-Georgievski



**9:40 - 10:30**

**Short Talks**

Chair: R. Seemann

**Synthesis, polymerization and characterization of dye-labeled polymethacrylate brushes**  
Jonah Decker, Sören Steup



**Hydrodynamic effects in adhering vesicles on periodically modulated substrates**  
Lucia Wesenberg



**10:30 - 11:00**

Coffee Break

**11:00 - 12:15**

**Short Talks**

Chair: H. Stark

**Adaptive wetting device based on conducting polymers**  
Junqi Lu



**Wetting of Surface Grafted Hydrophilic-b-Hydrophobic Block Copolymer Brushes**  
Benjamin Leibauer



**Dynamic wetting of self-assembled monolayers and polymer brushes functionalized with molecular photoswitches**  
Bart Jan Ravoo



**12:15 - 14:00**

Lunch Break

TUESDAY - 18th Feb. 2025

**14:00 - 14:40**

**Keynote**

Chair: D. Vollmer

**Surfaces Slippery to Liquids**

Glen McHale



**14:40 - 15:30**

**Short Talks**

Chair: D. Vollmer

**Contact dynamics and morphology  
under drops impacting an oil-covered  
substrate**

Kirsten Harth



**Gradient dynamics model for  
volatile binary mixtures including  
Marangoni flows**

Jan Diekmann



**15:30 - 16:15**

Coffee Break

**16:15 - 18:00**

**Plenary Talk**

Chair: R. Berger

**The psychology of climate change - from  
political activism to denial**

Prof. Roland Imhoff

**18:00 - 19:00**

Discussion

# WEDNESDAY

19th Feb. 2025



8:00 - 9:00

Coffee and Chats

9:00 - 9:40

**Keynote**

Chair: K. Harth

**Effect of Surface Stochasticity on Droplet Motion**

Maja Vuckovac



9:40 - 10:30

**Short Talks**

Chair: K. Harth

**Dynamics of a sessile drop exposed to a surface acoustic wave**

Lou Kondic



**Stood-up drops as a novel, easiest and fastest way to measure receding contact angles**

Thomas Willers



10:30 - 11:00

Coffee Break

11:00 - 12:15

**Short Talks**

Chair: D. Helmer

**Swelling of a polymer brush up to 100% relative humidity**

Simon Schubotz



**Thermally activated swelling and wetting transition of frozen polymer brushes: a new concept for surface functionalization**

Luciana Buonaiuto



**Light response lamellar structures based on carbon nanoparticles and polymer matrix**

Ilia Sadilov



12:15 - 14:00

Lunch Break

WEDNESDAY - 19th Feb. 2025

**14:00 - 14:40**

**Keynote**

Chair: S. Karpitschka

**How to keep solar panels clean**

Doris Vollmer



**14:40 - 15:05**

**Short Talks**

Chair: S. Karpitschka

**z-GrAdd\_Facile Fabrication of  
Wettability Gradients Via DLP 3D  
Printing for Liquid Manipulation  
Applications**

Niloofer Nekoonam



**15:15 - 15:30**

Conference Picture

**16:00**

Excursion

**19:00**

Joint Dinner

**8:00 - 9:00**

Coffee, Chats & Mounting of Posters

**9:00 - 9:40**

**Keynote**

Chair: S. Aland

**Fluid dynamics during spontaneous imbibition in multimodal porous media**

Maja Rücker



**9:40 - 10:05**

**Short Talks**

Chair: S. Aland

**Beyond the Cassie-Baxter Model: New Insights for Predicting Imbibition in Complex Systems**

Mathis Fricke



**10:05 - 10:30**

Coffee Break

**10:30 - 12:30**

**Posters**

**1. Spontaneously Charged Water Drops Induce Corrosion** | Zhongyuan Ni

**2. Dynamic Wetting of Adaptive Polyelectrolyte Substrates: A multiscale approach** | Mona Meltschoch

**3. Estimating sliding drop width via side-view features using artificial neural networks**  
| Sajjad Shumaly

**4. Estimating drop width for sliding drops using Machine Learning** | Rishi Chaurasia

**5. Robust, Easy-To-Clean Silica Sol-Gel Solar Panel Coatings** | Tarik Karakaya

**6. Dynamics of drop-induced lubricant separation and depletion on oleophilic polymer brushes**  
| Enqing LIU

**7. Removing particles from hydrophobic surfaces by single water drops** | Franziska Sabath

**8. Lateral adhesion of droplets measured with the scanning drop friction force instrument**  
| Fiona Berner

THURSDAY - 20th Feb. 2025

**9. Correlating the slippery behavior of nanoscale poly(dimethylsiloxane) layers to their liquid like molecular mobility** | Lin Jian

**10. Stimulus Responsive Polymer Brushes for Control of Static and Dynamic Wetting with Lipid Vesicles** | Felix Weissenfeld

**11. Block copolymer gradient brushes: A detailed look at the synthesis and characterization**  
| Jonah Decker

**12. Synthesis and investigation of Nile Red- and aurone-labeled methacrylate derivatives as novel solvatochromic probes for polymer analysis**  
| Sören Steup

**13. Kinetics of Cloak Development of Droplets on Lubricated Polymer Brushes** | Rodrique Badr

**12:30 - 14:00**

Lunch Break

**14:00 - 14:40**

**Keynote**

Chair: S. Weber

**Wettability in porous materials to design of fluid imbibition and molecular transport**  
Annette Andrieu-Brunsen



**14:40 - 15:30**

**Short Talks**

Chair: S. Weber

**Biomolecular condensates wetting membranes - dynamical insights from numerical simulations**  
Sebastian Aland



**Stimulus Responsive Polymer Brushes for Control of Static and Dynamic Wetting with Lipid Vesicles**  
Felix Weissenfeld



**15:30 - 16:35**

Coffee Break & Meeting of the PIs

THURSDAY - 20th Feb. 2025

**16:35 - 17:50**

**Short Talks**

Chair: D. Daniel

**Shape of polystyrene droplets on soft PDMS: Exploring the gap between theory and experiment at the three-phase contact line**

Ralf Seemann, André Erhardt



**Charge separation at contact lines slows down the breakup of liquid bridges on surfaces**

Aaron Ratschow



**Electrostatic Surface Charging by Water Dewetting**

Nikolaus Knorr





**8:00 - 9:00**

Coffee & Chats

**9:00 - 9:40**

**Keynote**

Chair: U. Thiele

**Theory of non-dilute binding and surface phase separation**

Christoph Weber



**9:40 - 10:30**

**Short Talks**

Chair: U. Thiele

**Does the topology of polymer brushes determine their sorption characteristics in vapors?**

Huaisong Yong



**Evaporation near the contact lines of droplets and rivulets on topographically complex surfaces**

Nikolai Kubochkin



**10:30 - 11:00**

Coffee Break

**11:00 - 12:15**

**Short Talks**

Chair: R. Berger

**Slide electrification**

Hans-Jürgen Butt



**Time evolution of surface charges deposited by evaporating water droplets**

NITISH SINGH



**Spontaneous charge separation by drop motion across of a hydrophobic tube**

Shaghayegh Saeidiharzand



**12:15 - 12:30**

Last Coffee & Farewell

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