

Superhydrophobicity and Wetting Symposium:**Wednesday**

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| Plenary session 1 2 invited talks | Wed. 16th, 8:40 Lei Jiang Frieder Mugele | Otakaari 1: Lec. hall B Smart Interfacial Materials from Super-Wettability to Binary Cooperative Complementary Systems Ion adsorption at mineral-electrolyte interfaces: from atomic scale AFM imaging to macroscopic wetting alteration |
| Contributed session 1A 8 contributed talks | Wed. 16th, 10:00 Husnu Yildirim Erbil Shanshan Jia Yanan Li Norbert Janowicz Sophia Laney Tomer Simovich Sasha Hoshian Yahua Liu | Otakaari 1: Lec. hall B Polyurethane Based Robust Superhydrophobic Surface Coatings Efficiently preparation of remarkable anchor structures to enhance the robustness of SHCs A novel method for fabricating super-hydrophobic self-cleaning surfaces Towards transparent superhydrophobic coating with hierarchical morphology A novel approach to block copolymer lithography, for the fabrication of superhydrophobic surfaces Sustainable Thermoregeneration of Superhydrophobic Coatings Multidroplets rolling and merging in a flexible bent superhydrophobic tube Bioinspired surfaces for fast droplet shedding |
| Contributed session 1B 8 contributed talks | Wed. 16th, 10:00 Nana Han Jingxia Wang Ye Tian Feng Chen Maja Vuckovac Julie Crockett Mimmi Eriksson Bo Chang | Otakaari 1: H304 Superwetting electrodes for Gas-involving Electrocatalysis Superwettability of Colloidal Photonic Crystals Bio-Inspired Nanochannels with Superwettability Bioinspired smart wetting surfaces prepared by a femtosecond laser Mapping Microscale Wetting Variations on Biological and Synthetic Water-Repellent Surfaces Effects of slip and temperature jump on droplet impingement on heated superhydrophobic surfaces Direct observations of cavitation and capillaries during force measurements High-throughput nano-liter deposition using hydrophilic-superhydrophobic patterned surfaces |
| Poster session | Wed. 16th, 12:00 | |
| Contributed session 2A 6 contributed talks | Wed. 16th, 13:30 Avijit Baidya Federico Veronesi Agne Swerin Kosmas Ellinas Manish Tiwari Ramón Tena-Zaera | Otakaari 1: Lec. hall B Organic Solvent-Free Fabrication of Durable and Multifunctional Superhydrophobic Paper from Waterborne Fluorinated Cellulose Liquid-repellent surfaces for frictional drag reduction & noise attenuation Liquid super repellence – nanoscopic non-wetting forces and coatings on biobased materials Plasma Micro-NanoTextured 3D Surfaces and Their Applications for Wetting and Antibacterial Control Robust and scalable superhydrophobic materials Ionogel-based omniphobic surfaces |
| Contributed session 2B 6 contributed talks | Wed. 16th, 13:30 Lasse Makkonen Reza Attarzadeh Veikko Sariola Carolina Brito Sara Marchio Alberto Giacomello | Otakaari 1: H304 Thermodynamics of a sliding drop Icephobic Performance of Superhydrophobic Coatings: A Numerical Analysis Modeling the adhesive forces of a liquid drop Modeling of Droplet Evaporation on Superhydrophobic Surfaces Wetting of rough surface: dynamical effects along transition pathways Self-Recovery Superhydrophobic Surfaces |
| Contributed session 3A 4 contributed talks | Wed. 16th, 15:30 Glen McHale Yaru Wang Rodrigo Ledesma-Aguilar Jaakko Timonen | Otakaari 1: Lec. hall B Manipulating Droplets on Lubricant Impregnated Surfaces Wood surfaces protection based on silica and covalently attached liquid-like PDMS chains for water repellency, anti-fouling, anti-smudge and self-healing properties Snap evaporation on smooth topographies Oleoplaning droplets on lubricated surfaces |
| Contributed session 3B 4 contributed talks | Wed. 16th, 15:30 Soomin Son Marta Vidiella del Blanco Ville Jokinen Kerstin Koch | Otakaari 1: H304 Biomimetic Taro-like Structure for Super-Hydrophobicity Underwater Superoleophobic Wood Cross Sections Oil Droplet Self-Transportation on Continuous Radial Topography Gradients Bouncing, splashing and spreading on biological and biomimetic surfaces influenced by surface wettability and liquid tension |
| Plenary session 2 2 invited talks | Wed. 16th, 16:35 Alidad Amirfazli Dimos Poulikakos | Otakaari 1: Lec. hall B How to Control the Splat of an Impacting Droplet using Superhydrophobic Patterns Inherent physics inspiring design for supercooled water- and ice-shedding from surfaces |
| Thursday | | |
| Contributed session 4A 5 contributed talks | Thu. 17th, 8:45 Wei Cao Nikolaos Vourdas Sherif Hamed Huan Liu Wang Guoyong | Otakaari 1: Lec. hall B Leaf-structure patterning for antireflective and hydrophobic surfaces on solar cells Gas-perfused porous surfaces: Actuating droplets without levitating them Pumpless, capillary force-driven transport of liquids on surfaces Bio-inspired Controllable Liquid Transfer by Topological Asymmetric Fibers A dual superlyophobic copper foam with good durability and recyclability for high-flux, high-efficiency and continuous oil-water separation |
| Contributed session 4B 5 contributed talks | Thu. 17th, 8:45 Jingming Wang Daniel Maynes Nandi Vrancken Elif Cansoy Weiteng Guo | Otakaari 1: H304 Superwettability of Gas Bubbles and Its Application: From Bioinspiration to Advanced Materials Bubble Nucleation in Superhydrophobic Microchannels due to Subcritical Heating Dynamics of superhydrophobic breakdown explored with in-situ ATR-FTIR The Effect of Surface Geometry and Chemical Composition on Wettability Properties Wetting behavior of Ge ₂ Sb ₂ Te ₅ nanoparticle decorated surfaces |
| Plenary session 3 2 invited talks | Thu. 17th, 10:30 David Quéré Doris Vollmer | Otakaari 1: Lec. hall B Leidenfrost wheels Drops on slippery surfaces |