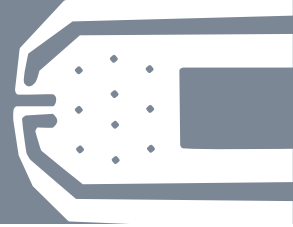




7th Thermal Probe Workshop

Technical Program

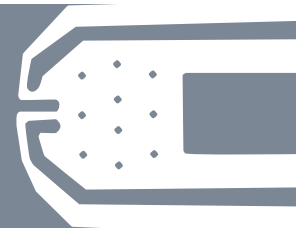


8:30	Registration open	Day 1, Wednesday 15 th March
9:00	Opening remarks	
Session I	Novel Nanofabrication	Session chair: Dr. Emine Cagin
9:15	Prof. Dr. Jürgen Brugger EPFL	Hot tip nanoengineering: 30 years and counting
10:00	Prof. Dr. Farnaz Niroui MIT	Force engineering for extreme nanodevices
10:30	Prof. Dr. Ralph Spolenak ETH Zurich	Multimaterial nanoprinting: Additively manufactured nanodevices in reach?
11:00	Coffee break	
Session II	Pushing the limits of tSPL	Session Chair: Dr. Simon Bonanni
11:20	Prof. Dr. Edoardo Alibisetti Politecnico di Milano	“Phase nanoengineering“ via thermal scanning probe lithography
11:50	Prof. Dr. Weihua Zhang Nanjing University	Multi-physical assembly of functional nanoparticles using thermally modified template by scanning nanoprobe
12:20	Dr. Nolan Lassaline Technical University of Denmark	The wavy world of Fourier surfaces
12:50	Lunch break	
Session III	Nanostructured Surfaces	Session Chair: Dr. Jana Chaaban
14:30	Prof. Dr. Giulia Tagliabue EPFL	Leveraging thermo-optical effects in nano-antennas and metasurfaces
15:00	Prof. Dr. Monika Fleischer University of Tübingen	Plasmo-mechanics: Spectral properties of plasmonic nanostructures on flexible substrates
15:30	Dr. Benedikt Stender Multiphoton Optics GmbH	Integrating 3D lithography and micro 3D printing into one system for photonics applications
16:00	Poster session	
17:30	Bus leaves Manufaktur8048 for dinner Runway 34, Rohrholzstrasse 67, 8152 Opfikon	



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Day 2, Wednesday 16th March

9:00 Registration open

Session IV Quantum Devices

Session chair: Dr. Nicholas Hendricks

9:15 **Dr. Armin Knoll**
IBM Research Europe - Zurich Fully automated thermal scanning probe lithography for FET batch fabrication

9:45 **Prof. Dr. Francesc Perez-Murano**
IMB-CNM Nanofabrication challenges for quantum technologies based on semiconductor devices

10:15 **Prof. Dr. Herre van der Zant**
Delft University of Technology Thermocurrent of a single-molecule transistor

10:45 Coffee break

Session V 1D and 2D materials

Session Chair: Dr. Cathelijn van Nisselroy

11:15 **Prof. Dr. Radha Boja**
University of Manchester One atom thin angstrom-scale capillaries: Confined flows

11:45 **Dr. Jana Chaaban**
Heidelberg Instruments Nano AG Enabling devices with 1D and 2D materials via markerless overlay with the NanoFrazor

12:15 **Dr. Maria Giardano**
University of Genova Thermal sculpting of 2D TMD nanocircuits for large-scale nanoelectronics

12:45 Lunch break

14:00 **Poster session**

Session VI Materials for Advanced Lithography

Session Chair: Dr. ZhengMing Wu

15:30 **Dr. Anthony Engler**
Polymer Solutions Inc. Thermal- and photo-degradable polyaldehyde copolymers for patterning applications

16:00 **Dr. Nicholas Hendricks**
Heidelberg Instruments Nano AG Enabling high resolution pattern transfers with amorphous Si hard masks

16:30 Best poster award, closing remarks



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