



## Workshop program

### LOCATION

Technopark Zurich  
Technoparkstrasse 1  
CH-8005 Zürich  
Switzerland

Conference Room „Fortran“, 2nd floor

### CONTACTS

**Organisation:**

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**Thursday, 30th March 2017**

<b>09.00</b>	<b>Registration</b>	<i>in front of room "Fortran"</i>
<b>09.30 – 10.50</b>	<b>Session I</b>	<i>Chair: Urs Dürig</i>
09.30 – 09.40	<b>Welcome Organizers</b>	
09.40 – 10.10	<b>Thermochemical Scanning Probe Lithography</b> Elisa Riedo, CUNY Advanced Science Research Center, New York City	
10.10 – 10.30	<b>Doping of MoS<sub>2</sub> by Thermochemical Nanolithography</b> Annalisa Calo, CUNY Advanced Science Research Center, New York City	
10.30 – 10.50	<b>T-SPL on a glassy supramolecular film creates a combination of topography and fluorescence</b> Samuel Zimmermann, EPFL, Lausanne	
10.50 – 11.20	<b>Break, coffee &amp; snacks</b>	<i>Poster Area "Fortran"</i>
<b>11.20– 12.50</b>	<b>Session II</b>	<i>Chair: Jens Gobrecht</i>
11.20 – 11.50	<b>Exploiting material contrast in 3D lithography: patterning, shape transformation and polishing</b> Robert Kirchner, TU Dresden	
11.50 – 12.10	<b>Accurate fabrication of photonic molecules using closed loop thermal Scanning Probe Lithography</b> Colin Rawlings, SwissLitho AG	
12.10 – 12.30	<b>3D t-SPL silicon nanopatterns fabrication with sub-nanometer scale roughness</b> Yuliya Lisunova, EPFL, Lausanne	
12.30 – 12.50	<b>3D phase plates for electron microscopy</b> Simon Hettler, Karlsruhe Institute of Technology	
<b>12.50 – 14.00</b>	<b>Lunch</b> Coffee & snacks	<i>Technopark Cafeteria</i> <i>Poster Area "Fortran"</i>
<b>14.00 – 15.30</b>	<b>Session III</b>	<i>Chair: Armin Knoll</i>
14.00 – 14.30	<b>Defects and Scalability in Self-Assembled Structures</b> Alex Liddle, NIST, USA	
14.30 – 14.50	<b>Spatial and Temporal Dynamics of Particles Assembling onto Patches Fabricated with t-SPL</b> Keith Carrol, IBM Research Zurich	
14.50 – 15.10	<b>The use of t-SPL for the directed self-assembly of block copolymers</b> Steven Gottlieb, IMB-CNM CSIC, Barcelona	
15.10 – 15.30	<b>Nanoparticle Manipulation with Nanofluidic Brownian Motors</b> Christian Schwemmer, IBM Research Zurich	
15.30 – 16.00	<b>Break, coffee &amp; snacks</b>	<i>Poster Area "Fortran"</i>
<b>16.00 – 17.10</b>	<b>Session IV</b>	<i>Chair: Fabian Menges</i>
16.00 – 16.30	<b>Nanospectroscopy and nanospectrometry—Using heat to map materials at the nanoscale</b> Craig Prater, Anasys Instruments, Santa Barbara	
16.30 – 16.50	<b>Laser trimming of graphene oxide for functional photonic applications</b> Xiaorui Zheng, CUNY Advanced Science Research Center, New York City	
16.50 – 17.10	<b>Nanopatterning magnetic landscapes via thermally assisted scanning probe lithography</b> Edoardo Albisetti, CUNY Advanced Science Research Center, New York City	
17.10 – 18.00	<b>Break, coffee &amp; snacks</b>	<i>Poster Area "Fortran"</i>
<b>18.10 – 21:45</b>	<b>Sunset Dinner Cruise on lake Zurich</b> Bus pick-up in front of Ibis Budget Hotel next to Technopark at 18:10	

**Friday, 31st March 2017**

08.30	Registration	
<b>09.00 – 10.30</b>	<b>Session V</b>	<i>Chair: Philip Paul</i>
09.00 – 09.30	<b>High precision fabrication for nanophotonics</b> Saulius Juodkazis, Swinburne University, Melbourne	
09.30 – 09.50	<b>Challenges of high resolution pattern transfer</b> Tero Kulmala, SwissLitho AG	
09.50 – 10.10	<b>High-resolution t-SPL: Fabrication of sub-20 nm devices</b> Yu Kyoung Ryu Cho, IBM Research Zurich	
10.10 – 10.30	<b>Ferromagnetic sidegates for semiconducting nanowire spintronics</b> Andreas Baumgartner, University of Basel	
10.30 – 11.00	<b>Break, coffee &amp; snacks</b>	<i>Poster Area "Fortran"</i>
<b>11.00 – 12.30</b>	<b>Session VI</b>	<i>Chair: Bernd Gotsmann</i>
11.00 – 11.30	<b>Scanning thermal microscopy and nanoscale thermal transport</b> Pierre-Olivier Chapuis, CETHIL, Lyon	
11.30 – 11.50	<b>Comprehensive modeling of Joule heated cantilever probes</b> Martin Spieser, SwissLitho AG	
11.50 – 12.10	<b>Nanoscale thermometry by scanning thermal microscopy</b> Fabian Motzfeld, IBM Research Zurich	
12.10 – 12.30	<b>Heat transport through atomic contacts</b> Nico Mosso, IBM Research Zurich	
<b>12.30 – 14.00</b>	<b>Lunch</b> Coffee & snacks	<i>Technopark Cafeteria</i> <i>Poster Area "Fortran"</i>
<b>14.00 – 15.30</b>	<b>Session VII</b>	<i>Chair: Tero Kulmala</i>
14.00 – 14.30	<b>3D printing of small metallic object with FluidFM Technology</b> Michael Gabi, Cytosurge, Glattbrugg	
14.30 – 14.50	<b>Fabrication of Atomic Scale Memristors using High Resolution t-SPL</b> Bojun Cheng, ETH Zurich	
14.50 – 15.20	<b>Nanoscale surface structures: Ready for mass-replication?</b> Jens Gobrecht, Paul Scherrer Institute, Villigen	
15.20 – 15.30	<b>Closing remarks</b> Organizers	
<b>15.30 – open</b>	<b>Self-organisation of meetings or discussions</b> Coffee & snacks provided	