

# Workshop program



## Location

Conference Room **Cobol**, 2nd floor in **Pauli wing** of Technopark

Technopark Zurich  
Technoparkstrasse 1  
CH-8005 Zürich  
Switzerland

## Contacts

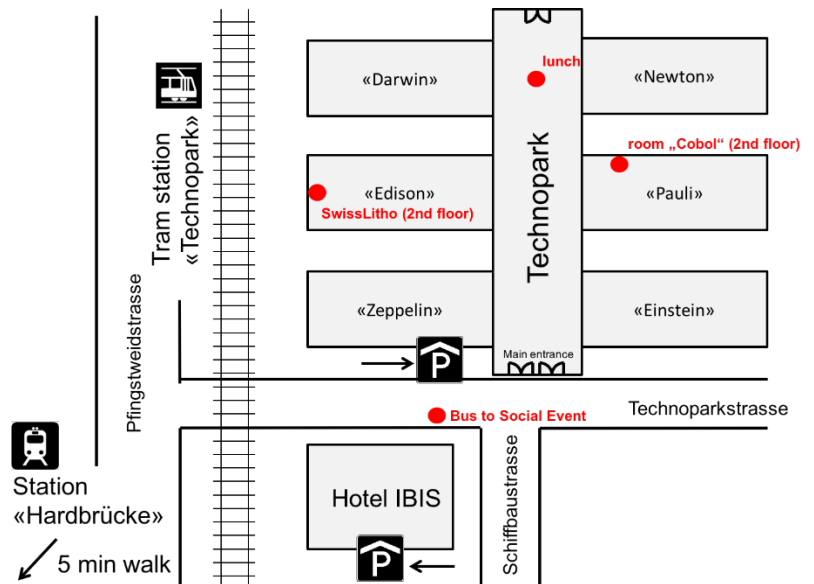
### Program:

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### Organisation:

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## Wednesday, 28th March 2018

09:00	<b>Registration</b> In front of room "Cobol" (coffee & snacks provided)
<b>Session I</b>	
Chair: Felix Holzner	
09.30 – 09.40	<b>Welcome</b> Organizers
09.40 – 10.00	<b>Past and Future of the NanoFrazor</b> Felix Holzner, SwissLitho
10.00 – 10.20	<b>Gray scale laser lithography with the Heidelberg Instruments DWL series</b> Peter Heyl, Heidelberg Instruments
10.20 – 10.40	<b>Shaping the nanophotonic landscape with three-dimensional thermal scanning probe lithography</b> Nolan Lassaline, ETH Zurich
10.40 – 11.00	<b>Tunable nanoscale defect cavities for exciton-polariton condensates at room temperature</b> Darius Urbonas, IBM Research Zurich
11.00 – 11.30	<b>Break - coffee &amp; snacks</b> Poster Area "Cobol"
<b>Session II</b>	
Chair: Martin Spieser	
11:30 - 12:00	<b>Scanning-aperture manipulation of nanomatter in fluids</b> Ji Tae Kim, University of Hong Kong
12:00 – 12.20	<b>NanoDrip Printing: Towards Additive Industrial Microfabrication</b> Patrick Galliker, Scrona
12.20 – 12.50	<b>Nanofluidic Rocking Brownian Motors</b> Christian Schwemmer, IBM Research Zurich
12.50 – 14.00	<b>Lunch @ Technopark Cafeteria</b> coffee & snacks @ Poster Area "Cobol"
<b>Session III</b>	
Chair: Urs Dürig	
14.00 – 14.30	<b>Sequential infiltration synthesis (SIS) for thermal scanning probe lithography (t-SPL)</b> Jean-Francois de Marneffe, IMEC
14.30 – 14.50	<b>Ultimate resolution device fabrication using the NanoFrazor</b> Colin Rawlings, SwissLitho
14.50 – 15.10	<b>Advanced pattern transfer processes for NanoFrazor lithography</b> Martin Spieser, SwissLitho
15.10 – 15.30	<b>Ohmic contacts fabrication in 2D devices</b> Xiaorui Zheng, CUNY Advanced Science Research Center, New York City
15.30 – 16.20	<b>Break - coffee &amp; snacks</b> Poster Area "Cobol"
16:30	<b>Bus leaving to Albishaus</b> Bus leaves at main entrance of Technopark at 16:30

## Thursday, 29th March 2018

08.30 **Registration**  
In front of room "Cobol" (coffee & snacks provided)

### Session IV

Chair: Tero Kulmala

09.00 – 09.30 **E-beam lithography on large areas for complex nano-optical structures**  
Uwe Zeitner, Fraunhofer IOF & University of Jena, Germany

09.30 – 09.50 **New resists for high resolution lithography**  
Christian Kaiser, Allresist GmbH

09.50 – 10.10 **Silk fibroin as a resist for thermal scanning probe lithography**  
Samuel Zimmermann, EPFL

10.10 – 10.30 **Understanding patterning endurance using PPA resist**  
Samuel Bisig, SwissLitho

10.30 – 11.00 **Break - coffee & snacks**  
Poster Area "Cobol"

### Session V

Chair: Philip Paul

11.00 – 11.30 **Functionalization and Reshaping of Commercial AFM Probes**  
Steffen Strehle, University of Ulm, Germany

11.30 – 11.50 **Innovative Probes for Reliable Underwater Nanoscience**  
Benoit Desbiolles, Scuba Probes Technologies, USA

11.50 – 12.10 **Thermal Probe Chemical Patterning for the Study of Particle Diffusion and Assembly**  
Urs Dürig, SwissLitho

12.10 – 12.30 **Confinement driven ordering of nanocellulose**  
Kathleen Smith, ETH Zurich

12.30 – 12.50 **Master fabrication for nanoimprint lithography**  
Tero Kulmala, SwissLitho AG

12.50 – 14.00 **Lunch @ Technopark Cafeteria**  
coffee & snacks @ Poster Area "Cobol"

### Session VI

Chair: ZhengMing Wu

14.00 – 14.30 **Optical dimensional characterisation of nanostructured surfaces, materials and devices**  
Bernd Bodermann, Physikalisch Technische Bundesanstalt, Braunschweig

14.30 – 15.00 **Nanoscale three-dimensional surface patterning with plasmonic lithography using a scanning probe**  
Jae W. Hahn, Yonsei University

15.00 – 15.10 **Closing remarks**  
Organizers

15.10 – 15.30 **Break - coffee & snacks**  
Poster Area "Cobol"

15.30 – open **NanoFrazor User Meeting**  
Active NanoFrazor users only, SwissLitho Office

## Posters

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**Thermal Probe Nanopatterning Enables Nanoparticle Assembly on PDMS Substrates**

Henry S.C. Yu, EPFL

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**Transport and Deposition of Purple Membranes in Nanofluidic Confinement**

Heiko Wolf, IBM Research Zurich

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**Thermal conductivity and phase transition temperature measurements on polymers using doped silicon SThM probe**

Eloïse Guen, CNRS- CETHIL-INSA Lyon

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**Mapping Thermoelectric Thin Films by Scanning Thermal Microscopy**

Liliana Vera, IMN-CNM-CSIC Madrid

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**Nanoscale Thermometry by Scanning Thermal Microscopy**

Fabian Könemann, IBM Research Zurich

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