



Institute of Science and Technology

March 13th, 2019

Symposium on Direct Write, Optical, Ion and Electron Beam Lithography

This symposium features technical experts and customers from Heidelberg Instruments, Nanoscribe, micro resist technology and Raith who will describe the spectrum of latest, state-of-the-art direct-write capabilities.

The Institute of Science and Technology make modern nanofabrication capabilities available to the community; we also welcome researchers from industry and other universities.

9:00 - 9:30

Welcome and Introduction to the NFF (Nanofabrication Facility)

Salvatore Bagiante, IST Austria

9:30 – 10:00

Plasmonics — Nanostructured metals for nanostructured light fields

Stefan Maier, LMU München, Department of Physics

10:00 – 10:30

Nanopatterning of quantum, plasmonic, photonic, 2D optical and nanomaterial devices

Frank Nouvertné, Raith GmbH

10:30 – 11:00

Coffee Break

11:00 – 11:30

Challenges and solutions related to the microfabrication of SQUIDs and magnetic microcalorimeters

Sebastian Kempf, Heidelberg University, Kirchhoff-Institute for Physics

11:30 – 12:00

From semiconductor reticle fabrication to high-resolution maskless applications: Laser lithography using high-speed light modulator at sub-micron resolution

Konrad Rössler, Heidelberg Instruments

12:00 – 12:30

Scaling up 3D Microprinting

Jochen Zimmer, Nanoscribe

12:30 – 14:00

Lunch Break

14:00 – 14:30

From structural color to brilliant whiteness – biomimetic photonic crystals with tailored disorder

D. T. Meiers, Technische Universität Kaiserslautern, Physics Department and Research Center OPTIMAS

14:30 – 15:00

Optical polymers for integrated quantum photonics

Asli Dilara Ugurlu, Niels Bohr Institute, University of Copenhagen, Quantum Photonics

15:00 – 15:30

Latest Highlights in Resist and Photopolymer Development for UV direct writing and E-beam lithography

Anja Voigt, micro resist technology

15:30 – 17:30

Process Clinic (open discussion about process related challenges)

Lunch will be provided. During the Process Clinic we will serve free beer, wine, soft drinks and finger food. We are looking forward to have fruitful discussions with you about your actual challenges. Free for academics. Industrial suppliers will be charged (participation fee € 250). Please preregister at [Link](#).

