

TALK about
3D Microfabrication
BiOS 2020



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Join the talks of
Nanoscribe experts and Nanoscribe technology users

Development on Utah optrode array for efficient neural stimulation and recording device [11227-5]

Saturday, 01 February 2020, 10:30 AM, Room 103 (Level 1 South Lobby)

Speaker: Hasan, M.; The Univ. of Utah, USA

Light as a tool for 3D additive and subtractive manufacturing on the microscale, with a single photoresist [11292-15]

Sunday, 02 February 2020, 4:10 PM, Room 213 (Level 2 South)

Speaker: Messer, T.; Karlsruher Institut für Technologie, Germany

Multiphoton 3D laser printing of nanoporous architectures [11292-16]

Sunday, 02 February 2020, 4:30 PM, Room 213 (Level 2 South)

Speaker: Mayer, F.; Karlsruher Institut für Technologie, Germany

Realization of functional nanophotonic circuits by hybrid 2D-3D integration (Inv. Paper) [11292-20]

Monday, 03 February 2020, 10:30 AM, Room 213 (Level 2 South)

Speaker: Pernice, W.H.P.; Westfälische Wilhelms-Univ. Münster, Germany

Three-dimensional fused silica templates to fabricate integrated photonic platforms [11292-22]

Monday, 03 February 2020, 11:30 AM, Room 213 (Level 2 South)

Speaker: Amrithanath, A.K.K.; Northwestern Univ., USA

Trapping single photon emitters onto ion-exchanged waveguide by two-photo polymerization [11292-23]

Monday, 03 February 2020, 11:50 AM, Room 213 (Level 2 South)

Speaker: Xu, X.; Univ. de Technologie Troyes, France

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Size scalable integration of photonic neural networks (Inv. Paper)

[11274-10]

Monday, 03 February 2020, 4:00 PM, Room 311 (Level 3 South)

Speaker: Moughames, J.; FEMTO-ST, France

Out-of-plane electron generation via 3D-printed resonant THz nanocones [11279-11]

Monday, 03 February 2020, 4:10 PM, Room 307 (Level 3 South)

Speaker: Rovere, A.; Institut National de la Recherche Scientifique, Canada

Direct laser writing of waveguides using the exposure dependent polymerization of IP-Dip [11292-31]

Monday, 03 February 2020, 5:00 PM, Room 213 (Level 2 South)

Speaker: Jörg, C.; Technische Univ. Kaiserslautern, Germany

Design and fabrication of bio-inspired nanostructures exhibiting structural coloration [11292-33]

Monday, 03 February 2020, 5:50 PM, Room 213 (Level 2 South)

Speaker: Datta, B.C.; MIT Media Lab., USA

Nanoscribe expert talk

Two-photon grayscale lithography

[11292-38]

Tuesday, 04 February 2020, 11:10 AM
Room 213 (Level 2 South)

Speaker: Dr. Yann Tanguy, Nanoscribe GmbH



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3D printed micro-optics: Millimeter size, multiple materials, and combining refractive and diffractive imaging leads to novel functionalities (Inv. Paper) [11292-34]

Tuesday, 04 February 2020, 8:20 AM, Room 213 (Level 2 South)

Speaker: Giessen, H.; Univ. Stuttgart, Germany

Fabrication and characterization of 3D silver micro-structures

[11292-35]

Tuesday, 04 February 2020, 9:10 AM, Room 213 (Level 2 South)

Speaker: Waller, E.H.; Technische Univ. Kaiserslautern, Germany

High-throughput fabrication of right-angle prism mirrors with selective metalization by two-step 3D printing and computer vision alignment

[11292-36]

Tuesday, 04 February 2020, 9:30 AM, Room 213 (Level 2 South)

Speaker: Bertoini, A.; King Abdullah Univ. of Science and Technology, Saudi Arabia

Space-variant quarter- and half-wave plates fabricated by combining 3D laser direct writing and electroplating [11292-37]

Tuesday, 04 February 2020, 9:50 AM, Room 213 (Level 2 South)

Speaker: Belle, S.; Hochschule Aschaffenburg, Germany

Single low-NA objective counterpropagating optical traps enabled by 3D-printed mirrors [11297-16]

Tuesday, 04 February 2020, 4:10 PM, Room 216 (Level 2 South)

Speaker: Bertoini, A.; King Abdullah Univ. of Science and Technology, Saudi Arabia

Two-Photon laser lithography for metrology and vice versa [11292-42]

Tuesday, 04 February 2020, 5:00 PM, Room 213 (Level 2 South)

Speaker: Hering, J.; Technische Univ. Kaiserslautern, Germany

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Additive manufacturing of a ceramic micro-tool by two-photon polymerization of a low-shrinkage pre-ceramic polymer [11277-2]

Wednesday, 05 February 2020, 8:25 AM, Room 305 (Level 3 South)

Speaker: Konstantinou, G.; Ecole Polytechnique Fédérale de Lausanne, Switzerland

Acoustical activity by chiral phonons in 3D metamaterials (Inv. Paper)

[11289-44]

Wednesday, 05 February 2020, 2:30 PM, Room 303 (Level 3 South)

Speaker: Wegener, M.; Karlsruher Institut für Technologie, Germany

Stimuli-responsive 3D micro-scaffolds for single cell actuation

[11271-37]

Thursday, 06 February 2020, 11:00 AM, Room 207 (Level 2 South)

Speaker: Hippler, M.; Karlsruher Institut für Technologie, Germany

Nanoscribe expert talk

3D additive microfabrication for relaxed optical packaging (Inv. Paper) [11286-43]

Thursday, 06 February 2020, 2:20 PM
Room 215 (Level 2 South)

Speaker: Matthias Blaicher, Nanoscribe GmbH



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