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NILindustrialday

March 08 – 09, 2018
Parkhotel Schönbrunn
Hietzinger Hauptstraße 10-16, 1130 Vienna, Austria











March 08, 2018

12:30 Opening, welcome & agenda

- Christoph Breitschopf, PROFACTOR
- Gabi Grützner, micro resist technology

12:40 Applications (Chair: Daniel Fechtig, PROFACTOR)

- 12:40 High Performance Microbatteries and Biosensors via Nanoimprinting of 3-D Metal Oxide Electrodes
 - James Watkins, University of Massachusetts Amherst
- 13:00 Metasurface Optical Solar Reflectors Using AZO Transparent Conducting Oxides for Radiative Cooling of Spacecraft
 - Maksim Zalkovskij, NIL Technology ApS
- 13:20 High hardness and anti-fouling moth-eye structures made by UV-NIL
 - Jun Taniguchi, Tokyo University of Science
- 13:40 Safe by design bactericidal surfaces via nanoimprinting of surface nanocomposites
 - Isabel Rodriguez, IMDEA Nanoscience

14:00 Networking & Exhibition

14:40 Mastering I (Chair: Michael Hornung, AMO GmbH)

- 14:40 Fabrication of shallow hydrophobic surfaces using high-resolution grayscale lithography and soft-mold imprint - Robert Kirchner, TU Dresden, Institute of Semiconductors and Microsystems
- 15:00 Towards industrial scaling of non-CMOS applications using 5keV multi-ebeam lithography
 - Marcel van Kervinck, MAPPER Lithography B.V.
- 15:20 Electron Multi-Beam Mask Writing for leading-edge 193, EUV and NIL Masks
 - Hans Loeschner, IMS Nanofabrication

Networking & Exhibition 15:40

16:20 Equipment (Chair: Anja Haase, Joanneum Research)

- 16:20 Aurora: High volume production of micro- and nanostructured glass sheets for display applications
 - Bram Titulaer, Morphotonics B.V.
- 16:40 Challenges and solutions for the industrial production of micro- and nanostructured films and rigid material
- Wilfried Schipper, temicon GmbH
- 17:00 High fidelty replication of complex surface structures by SmartNIL
 - Martin Eibelhuber, EV Group (EVG)
- 17:20 AutoSCIL: status update on tooling, materials and processes
 - Marc Verschurren, SCIL Nanoimprint Solutions

17:40 Closing Day 1

- Walk to the Metro-Station "Hietzing": Transport to the City Centre for Sightseeing Tours 17:50
- 18:30
 - Sightseeing Tours
 - Imperial Crvpt
 - Stephansdom
 - Imperial Treasury

20:00 Dinner at restaurant "Labstelle", (Wollzeile 1, 1010 Vienna) in cooperation with



March 09, 2018

08:00 Networking and Exhibition

08:30 Opening, welcome & agenda

- Michael Mühlberger, PROFACTOR
- Alexander Pogany, bmvit

08:45 Processes and Materials (Chair: Hubert Teyssedre - CEA LETI)

- 08:45 Step&Repeat UV-NIL for polymer shim fabrication and R2R imprinting of micro-optical structures Anja Haase, Joanneum Research
- 09:05 Nanoimprint replication of complex and undercut bioinspired nanostructures
 - Michael Mühlberger, PROFACTOR GmbH
- 09:20 A novel large area NIL concept for superior surface-patterned optics and automotive applications
 - Florian Schlachter, AMO GmbH
- 09:40 Latest Highlights of Materials and Replication Processes for Industrial Micro-Optics Manufacture - Marko Vogler, micro resist technology GmbH
- 10:00 Determination of the photo curing rate of light curable resins for use in R2R and R2P NIL applications
 - Karlis Petersons, Stensborg A/S

Networking & Exhibition

11:00 Mastering II (Chair: Helmut Schift, Paul Scherrer Institute)

- 11:00 3D grayscale lithography with single nanometer accuracy using the NanoFrazor and its application for Nanoimprint mastering
 - Felix Holzner, SwissLitho AG
- 11:20 3D Greytone Lithography Using E-Beam and Laser Direct Write for Master Making
 - Holger Sailer, Institut fuer Mikroelektronik Stuttgart (IMS CHIPS)
- 11:40 Structural colour master stamp (fast and cheap, low-tech high-yield) from Morpho peleides butterfly wings - Ille C. Gebeshuber, TU Wien

12:00 Buffet lunch, Networking & Exhibition

13:20 Applications II (Chair: Manuel Thesen, micro resist technology)

- 13:20 Smart Combination of Nanoimprint Lithography, Nickel Up-plating and Injection Molding for the Manufacturing of Superhydrophobic Plastic Lenses
 - Ilja Czolkos, NIL Technology ApS
- 13:40 High-Speed Roll-to-Roll Hot Embossing of Micrometer and Sub Micrometer Structures Using Seamless Direct Laser Interference Patterning treated Sleeves for the Fabrication of Advanced Security Elements
 - Bogdan Voisiat, TU Dresden, Institute of manufacturing Science and Engineering
- 14:00 Nanoimprint lithography for advanced light trapping in photovoltaics
 - Hubert Hauser, Fraunhofer Institute for Solar Energy Systems ISE
- 14:20 Closing Day 2