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NILindustrialday

March 08 – 09, 2018
Parkhotel Schönbrunn
Hietzinger Hauptstraße 10-16, 1130 Vienna (AT)











March 08, 2018

12:30 Opening, welcome & agenda

- M. Mühlberger, PROFACTOR
- G. Grützner, micro resist technology
- bmvit

12:40 NIL Applications

- 12:40 High Performance Microbatteries and Biosensors via Nanoimprinting of 3-D Metal Oxide Electrodes
 - James Watkins, University of Massachusetts Amherst
- 13:00 High-Speed Roll-to-Roll Hot Embossing of Micrometer and Sub Micrometer Structures Using Seamless Direct Laser Interference Patterning treated Sleeves for the Fabrication
 - Andreas Rank, TU Dresden, Institute of manufacturing technology
- 13:20 Nanoimprint lithography for advanced light trapping in photovoltaics
 - Hubert Hauser, Fraunhofer Institute for Solar Energy Systems ISE
- 13:40 Smart Combination of Nanoimprint Lithography, Nickel Up-plating and Injection Molding for the Manufacturing of Superhydrophobic Plastic Lenses
 - Markus Guttmann, KIT; Institute of Microstructure Technology
- 14:00 Safe by design bactericidal surfaces via nanoimprinting of surface nanocomposite
 - Isabel Rodriguez Fernandez, IMDEA Nanociencia

14:20 Networking & Exhibition

15:00 NIL Applications & 3D/Mastering

- 15:00 High hardness and anti-fouling moth-eye structures made by UV-NIL
 - Prof. Jun Taniguchi, Tokyo University of Science
- 15:20 **tba**
 - Markus Rossi, Heptagon Advanced Micro Optics
- 15:40 Towards industrial scaling of non-CMOS applications using 5keV multi-ebeam lithography
 - Marcel van Kervinck, Mapper
- 16:00 Electron Multi-Beam Mask Writing for leading-edge 193, EUV and NIL Masks
 - Hans Löscher, IMS Nanofabrication

16:20 Networking & Exhibition

16:45 Equipment

- 16:45 Challenges and solutions for the industrial production of micro- and nanostructured films and rigid material
 - Wilfried Schipper, temicon GmbH
- 17:05 High fidelty replication of complex surface structures by SmartNIL
 - Martin Eibelhuber, EVG Group
- 17:25 AutoSCIL: status update on tooling, materials and processes
 - Marc Verschurren, SCIL Nanoimprint Solutions
- 17:45 Closing Day 1
- Walk to the Metro-Station "Hietzing": Transport to the City Centre for Sightseeing Tours 18:00
- 18:30
 - Sightseeing Tours
 - Imperial Crypt
 - Stephansdom
 - Imperial Treasury

20:00 Dinner at restaurant "Labstelle", (Lugeck 6, 1010 Vienna) in cooperation with



March 09, 2018

08:00 Networking and Exhibition

08:40 Opening, welcome & agenda

- M. Mühlberger, PROFACTOR

08:45 Processes and Materials

- 08:45 Step&Repeat UV-NIL for polymer shim fabrication and R2R imprinting of micro-optical structures - Ursula Palfinger, 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 - Markus Vogler, micro resist Technology GmbH
- 10:00 tba
 - Lars Lindvold, Stensborg A/S

Networking & Exhibition

11:00 3D/Mastering

- 11:00 3D grayscale lithography with single nanometer accuracy using the NanoFrazor and its application for Nanoimprint mastering
 - F. Holzner, SwissLitho
- 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 Industrial Applications

- 13:20 Fabrication of shallow hydrophobic surfaces using high-resolution grayscale lithography and soft-mold imprint - Robert Kirchner, TU Dresden
- 13:40 Metasurface Optical Solar Reflectors Using AZO Transparent Conducting Oxides for Radiative Cooling of Spacecraft
- Maksim Zalkovskij, NIL Technology ApS 14:00 Aurora: High volume production of micro- and nanostructured glass sheets for display applications
- Bram Titulaer, Morphotonics B.V.
- 14:20 Closing Day 2

Register now: www.nil-industrialday.org