

MNE2015 Scientific Program

Tuesday Morning 22 September 2015				
830	WF Theatre Chairs: Kees Hagen and Urs Staufer (TU-Delft, NL)		Opening	
900	Tue-Keynote-1 'WF Theatre' Chair: Kees Hagen (TU-Delft, NL)		Nano-Lithography Pieter Kruit	
930	Tue-Keynote-2 'WF Theatre' Chair: Urs Staufer (TU-Delft, NL)		Nano Fountain Probe Technology for <i>In Vitro</i> Single Cell Studies Horacio Espinosa	
1030	Break and Opening of the Exhibition			
	A3. Electron and Ion Beam Lithography Chair: J. Alexander Liddle (NIST, USA)	B4. 3D Micro Manufacturing and Micro Printing Chair: Massimo Gentili (Fondazione Bruno Kessler, IT)	C1.1. MEMS/NEMS Sensing 1 Chair: Sternberg Andris (Univ. of Latvia, LV)	D5. System Design and Fabrication Chair: Joan Bausells (CSIC, ES)
	'Amazon'	'Yangtze'	'WF Theatre'	'Mississippi'
1100	Tue A3-c1 Optimization of electron beam lithographic exposure of PMMA implantation masks with high aspect ratio covering a topographic step Jens Bolten et al.	Tue-B4-c1 Inversed pyramid-shaped cave arrays with nano-opening cap fabricated by laser interferometric lithography and wet etching Weijie Sun et al.	Tue-C1-c1 Fabrication, characterisation and behaviour of very low-power gas sensing devices based on single nanowires J. Samà et al.	Tue-D5-inv Technologies for point-of-care diagnostics M. Irmscher et al.
1115	Tue A3-c2 Toward Less Than 50 nm-Line and Space Negative Tone Pattern Fabrication by Electron Beam Lithography using NEB-22 Makoto Okada et al.	Tue-B4-c2 Novel Open Channel Microneedle Array Fabrication by 3D Laser Lithography and Micromoulding Techniques Zahra Faraji Rad et al.	Tue-C1-c2 Integration of ZnO nanostructures onto a micro hot plate for gas sensing A. Tommasi et al.	
1130	Tue A3-c3 Characterization for the photomask fabrication based on a novel technique of high-resolution with a non-chemically amplified resist and a post-exposure bake Hidetatsu Miyoshi et al.	Tue-B4-c3 High throughput fabrication of hierarchical photonic nanostructures N. Schneider et al.	Tue-C1-c3 Integrated smart gas flow sensor with 2.6 mW total power consumption and 80 dB dynamic range Massimo Piotto et al.	Tue-D5-c1 Fabrication of a smart contact lens platform for the diagnosis of dry eye disease Sajina Tinku et al.
1145	Tue A3-c4 Focused ion beam current density profile derivation from single crystal amorphization region widths – analysis method Yuval Greenzweig et al.	Tue-B4-c4 Fabricating high density metal structures using a six-fold line multiplying scheme J. Bosgra et al.	Tue-C1-c4 Flexible Magnetoresistive Devices with High-Performance Sensors H. Fonseca et al.	Tue-D5-c2 Top-down Zinc Oxide Nanowires by Ion Beam Etching for Biosensing Applications Kai Sun et al.
1200	Tue A3-c5 Proximity Effect Quantification and Dose Optimisation for High Resolution Helium Ion Beam Lithography Xiaoqing Shi et al.	Tue-B4-c5 Monolithic micro-optical components: advancing from novel master fabrication methodology towards high-volume manufacturing schemes L. Jacot-Descombes et al.	Tue-C1-c5 High Frequency self-sensing piezoresistive SPM cantilevers with a novel design W. Engl et al.	Tue-D5-c3 On-chip glass microfluidic trap and storage of helical magnetic microrobot Barbot Antoine et al.
1215	Tue A3-c6 Fabrication of metallic nanostructures by character projection based electron beam lithography and hard mask lift-off technique Torsten Harzendorf et al.	Tue-B4-c6 An effective approach for reducing surface roughness of PMMA in grayscale EBL by thermal radiation induced local reflow Chen Xu et al.	Tue-C1-c6 MEMS mechanism for resonance frequency tuning Nao Takeda et al.	Tue-D5-c4 Fast and Large Area Fabrication of Hierarchical Super Hydrophobic Silicon Surfaces Ghio S. et al.
1230-1330	Lunch Break, lunch served in the Exhibition Area			

Tuesday Afternoon 22 September 2015				
	A5. Materials for lithography, resists and resist processing Chair: Robert Kirchner (PSI, CH)	B3. Electron/Ion Beam deposition, related technologies, applications Chair: Claus J. Burkhardt (NMI, DE)	C1.2. MEMS/NEMS Fabrication and Reliability Chair: Rebecca Cheung (Univ. of Edinburgh, UK)	D6. Applications Chair: Luigi Sasso (TU Delft, NL)
	'Amazon'	'Yangtze'	'WF Theatre'	'Mississippi'
1330	Tue-A5-inv Resist material options for extreme ultraviolet lithography T. Kozawa	Tue-B3-c1 Mimicking the iridescent color of free-standing Morpho butterfly wing scales fabricated by e-beam lithography Sichao Zhang et al.	Tue-C1-c7 Fabrication of a freestanding nanofluidic gas channel between two metal membranes G.J. Rademaker et al.	Tue-D6-inv Semiconductor Nanowires, a Promising Tool for Cell Sensing C.Prinz
1345		Tue-B3-c2 Nanomagnets as building blocks of logic gates - 3D nano manufacturing of nanomagnet assemblies by electron beam induced deposition H.D. Wanzenboeck et al.	Tue-C1-c8 Hydrothermal growth of c-axis nanorod-based ZnO films for SAW sensing applications G. Rius et al.	
1400	Tue-A5-c1 Characterization of the anisotropy of semi-crystalline polymers after	Tue-B3-c3 Photoluminescence Emission from a nanofabricated Scanning Probe Tip	Tue-C1-c9 Effect of fluorine surface modification on resonance of a carbon	Tue-D6-c1 Cell Direction Switching and Metastasis Screening by Designed Topography

	nanoimprint by spectroscopic ellipsometry Si Wang et al.	Made of Epitaxial Germanium M.Bollani et al.	nanoresonator fabricated by FIB/EB dual-beam lithography R. Kometani et al.	S.F. Zhou et al.
1415	Tue-A5-c2 Highly extended PDMS stamp life-time enabled by the new organic photo-curable soft NIL resist "mr-NIL210" Martin Messerschmidt et al.	Tue-B3-c4 Parallel imaging in a 196-Beam SEM Y.Ren et al.	Tue-C1-c10 Mass sensor utilising the mode-localisation effect in an electrostatically-coupled MEMS resonator pair fabricated using an SOI process Graham S. Wood et al.	Tue-D6-c2 Substrate-Independent Immobilization of Monolayer Metal Nanoparticles Array via Self-Assembly for Efficient Antibiofilm Coatings Shang-Yi Yi et al.
1430	Tue-A5-c3 Pattern collapse mitigation in inorganic resists via a polymer freeze technique Tero S. Kulmala et al.	Tue-B3-inv Focused electron beam induced deposition of metallic binary alloy nanostructures employing a heteronuclear precursor M. Huth et al.	Tue-C1-c11 Novel Saw Tooth Gate for Stiction and Pull-in Voltage Controlled Ohmic Silicon NEMS Switch L. Boodhoo et al.	Tue-D6-c3 In situ protein crystallization on microfabricated chips for serial crystallography. Nadia Opara et al.
1445	Tue-A5-c4 Multiphoton Laser Ablation Lithography (MP-LAL) using 375 nm Continuous Wave Laser Enabling Patterning down to the 30 nm Regime and beyond T. Manouras et al.		Tue-C1-c12 Exposing the tribological run-in of polysilicon MEMS sidewalls in sliding contact using in-situ force measurements with AFM-like resolution Jaap Kokorian et al.	Tue-D6-c4 Rapid Prototyping for Microfluidics and Neuro-Engineering Anthony Leonard et al.
Break/Exhibition				
1500-1530	Poster session 1 (even numbers) / Exhibition Until 1800			
1530	Poster session 1 (even numbers) / Exhibition Until 1800			
	Special session S1. Single Nanometer Manufacturing (SNM) Chair: Ivo Rangelow (TU-Ilmenau)	End of poster session 1		Special session S2. Chemistry for Electron Induced Nanofabrication (CELINA) Chair: Ivo Utke (EMPA, CH)
	'Amazon'			'Mississippi'
1700	Tue-S1-c1 Introduction to Single Nanometer Manufacturing for beyond CMOS devices (SNM) Ivo W. Rangelow			Tue-S2-c1 Chemistry for Electron Induced Nanofabrication: Introduction to COST Action CM1301 – CELINA Petra Swiderek et al.
1705	Tue-S1-c2 Charged particle single nanometer nanofabrication Philip Prewett			Tue-S2-c2 Focused electron beam induced processing (FEBIP) as maskless 3D direct-write nanolithography platform H.D. Wanzenboeck et al.
1725	Tue-S1-c3 Thermal and Oxidation Scanning Probe Lithography Felix Holzner			Tue-S2-c3 Focused electron induced processing in a surface science approach Hubertus Marbach
1735	Tue-S1-c4 Single nanometer pattern transfer Mike Cooke			
1745	Tue-S1-c5 3D-AFM/Metrology for sub 3nm Marijn van Veghel			Tue-S2-c4 Shape control in high resolution Electron Beam Induced Deposition S. Hari et al.
1800				Tue-S2-c5 Focused electron and ion beam induced deposition on flexible and transparent polycarbonate substrates J. M. de Teresa et al.
1805	Tue-S1-c6 Sub-10nm device development within the SNM Project Zahid Durrani			Tue-S2-c6 The SEM as reaction chamber: developing nanogranular Pt-C additive chemistry on the nanometer scale A.A.M. Al-Marashdeh et al.
1820				End of Special session S2
1825				
1835				
1845	End of Special session S1			
1850				

Wednesday Morning 23 September 2015				
830	Wed-Keynote-3 Development of block copolymers to create complex material nanopatterns 'WF Theatre' Chair: Dieter Kern (Univ. Tuebingen, DE) Michael Morris			
915	Relocation			
	A6. Directed Self Assembly Chair: Christophe Vieu (Univ. of Toulouse, FR)	B7. Metrology Chair: Harm Knoop (TU Eindhoven, NL)	C5.1. Micro and Nano devices for Physical Science - Computing Chair: Victor Cadarso (PSI, CH)	D3. Organ on a Chip Chair: Stella Pang (City Univ. of Hong Kong, HK)
	'Amazon'	'Yangtze'	'WF Theatre'	'Mississippi'
930	Wed-A6-c1 Capture probability of assembly defects in 14 nm half-pitch line/space DSA patterns H.Pathangi et al.	Wed-B7-c1 Imaging and model simulation of trenches on a silicon surface in helium ion microscopy P.F.A. Alkemade et al.	Wed-C5-inv Evolution of Superconducting Quantum Processors Leonardo DiCarlo	Wed-D3-c1 Skin-on-chip : integration of skin tissue and microsystems engineering Bergers Lambert et al.
945	Wed-A6-c2 Ordering of either nano-dot arrays or nano-lines along EB-drawn resist guide lines using PS-PDMS self-assembly with a molecular weight of 1.46 kg/mol Sumio Hosaka et al.	Wed-B7-c2 Diamond scanning probes with sub-nanometer resolution for advanced nanoelectronics device characterization T. Hantschel et al.		Wed-D3-c2 Microelectrode array with integrated sieving structure for automated cell positioning B. Schurink et al.
1000	Wed-A6-c3 Determination of the interfacial energies in chemical guiding patterns for directed self-assembly of block copolymers Laura Evangelio et al.	Wed-B7-c3 Electric Fields in Scanning Electron Microscopy Simulations K. T. Arat et al.	Wed-C5-c1 Quantum Cellular Automata: Design and Fabrication with the Nanodamascene Process Gabriel Droulers et al.	Wed-D3-inv Organs-on-chip by selective assembly of primary cells enabled by dielectrophoresis in microfluidic devices M.Stelzle
1015	Wed-A6-c4 Characterization of Half-pitch 15 nm Metal Wire Circuit Fabricated by Directed Self-assembly of PS-b-PMMA Y. Kasahara et al.	Wed-B7-c4 Using Piezoresponse Force Microscopy for semiconductor ZnO nanowires G. Murillo et al.	Wed-C5-c2 Scaling and Integration of Memristive Nanodevices Using Nanoimprint Lithography Shuang Pi et al.	
1030-1100	Break/Exhibition			
	A7. Stencil and Tip Based Patterning Chair: Pasqualantonio Pingue (Scuola Normale Superior PISA, IT)	B8. Self Aligned Processes Chair: Monika Fleischer (Univ. Tuebingen, DE)	C5.2. μ/nano - devices for Physical Science–Nano Tubes and Nano Wires Chair: Zahid Durani (Imperial College London, UK)	D2. Lab on Chip Chair: Anja Boisen (DTU, DK)
	'Amazon'	'Yangtze'	'WF Theatre'	'Mississippi'
1100	Wed-A7-c1 Etching through nanostencils for high resolution and large-scale patterning of optical nanoantenna arrays Valentin Flauraud et al.	Wed-B8-inv Strategies for selective atomic layer deposition on patterned substrates A.J.M.Mackus et al.	Wed-C5-c3 TEM study of Schottky junctions for reconfigurable silicon nanowire devices S. Banerjee et al.	Wed-D2-c1 Microreactor with integrated micro-mixer and heated nebulizer for mass spectrometric chemical reaction analysis G.Scotti et al.
1115	Wed-A7-c2 Direct fabrication of thin film layer MoS2 field-effect nanoscale transistors by oxidation scanning probe lithography Francisco M. Espinosa et al.		Wed-C5-c4 Fabrication of a suspended silicon nanowire single hole transistor by focused ion beam implantation J.Llobet et al.	Wed-D2-c2 Resealable flowcells with integrated oxygen sensing layers for enzymatic reaction studies Martina Viefhues et al.
1130	Wed-A7-c3 Lift-off processes for avoiding substrate damage from charged particles during lithography Martin Spieser et al.	Wed-B8-c1 Area selective growth of chalcogenide materials onto patterned substrates by chemical vapor deposition Ruomeng Huang et al.	Wed-C5-c5 GaAs/InSb core-shell nanowires and InSb nanotubes Torsten Rieger et al.	Wed-D2-c3 Monolithically integrated photonic platform for Point-of-Need application in food safety M.Angelopoulou et al.
1145	Wed-A7-c4 Field Emission Scanning Probe Lithography and Etching at Cryogenic Temperatures – A Closed Loop Technology towards beyond CMOS Device Manufacturing M.Kaestner et al.	Wed-B8-c2 Nanocrystal Self-Assembly of CdSe/CdS Hollow Domes in quasi contact-free conditions Angelo Accardo et al.	Wed-C5-c6 Fabrication and characterization of tunnel barriers in a multi-walled carbon nanotube formed by focused ion beam technique H. Tomizawa et al.	Wed-D2-c4 A Capillary-Driven Microsystem for DNA Amplification Direct from Whole Blood Benjamin Jones et al.
1200	Wed-A7-inv Advanced Scanning Probe Lithography A.Knoll	Wed-B8-c3 Fabrication of High-resolution, Self-aligned Palladium Electrodes for Nanoresonators Laura Vera Jenni et al.	Wed-C5-c7 Improving the Double Layer Capacitance of Silicon Nanowire Arrays with Room Temperature Ionic Liquids Abdurrahman Shougee et al.	Wed-D2-c5 Periodic convection of superparamagnetic beads within a microfluidic channel by interlocked, electroplated structures activated by a static field Thies Jan-Wilhelm et al.
1145		Wed-B8-c4 Crystallinity variations over the length of vertically aligned carbon nanotubes grown by chemical vapour deposition S. Vollebregt et al.	Wed-C5-c8 Optimization of 3-D N-channel Twin Silicon Nanowire MOSFET Izzati Omar et al.	Wed-D2-c6 Nanoimprinted photonic crystal slab sensor for label-free diffusion monitoring Kristian Tølbøl Sørensen et al.
1230-1330	Lunch Break, lunch served in the Exhibition Area			

Wednesday Afternoon 23 September 2015

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	A1. Photo Lithography Chair: Paul Alkemade (TU Delft, NL)	C3. Meta Materials and their Fabrication Chair: Anders Kristensen (DTU, DK)	C5.3. μ/nano-devices for Phys.Science - Instrumentation and Imaging Chair: Richard Koops (VSL, NL)	D4. Micro and Nanofluidics for Biology and Life Sciences Chair: Albert van der Berg (Univ. Twente, NL)
	'Amazon'	'Yangtze'	'WF Theatre'	'Mississippi'
1330	Wed-A1-c1 Towards Single Photon Lithography Hilde Hardtdegen et al.	Wed-C3-inv Recent progress in hyperbolic, chiral and 3D metamaterials: Physics, Fabrication and Applications Minkyung Kim et al.	Wed-C5-c9 Dopant Imaging of Power Semiconductor Device Cross Sections U. Gysin et al.	Wed-D4-c1 Preparation of highly porous PLGA microparticles using droplet fission and gelatin porogen Chul Min Kim et al.
1345	Wed-A1-c2 Fabrication of high-aspect-ratio polarizers with Displacement Talbot Lithography Christian Dais et al.		Wed-C5-c10 Experimental system combined with a micromachine and double-tilt TEM holder Takaaki Sato et al.	Wed-D4-c2 SU-8 micro-pillars suspended on Si ₃ N ₄ membranes: a superhydrophobic chip for in-situ X-ray diffraction studies on bio-soft matter A.Accardo et al.
1400	Wed-A1-c3 Through-Wafer Photolithographic Exposure for Control of Resist Sidewall Profile L. Wang et al.	Wavelength Selective Metamaterial Absorber for Thermal Detectors A. Shoshi et al.	Wed-C5-c11 Microfabrication of an integrated photoconductive switch and Ultrafast Beam Blanker Gerward Weppelman et al.	Wed-D4-c3 Active porous valves for droplet flow manipulation in open channel fluidics N. Vourdas et al.
1415	Wed-A1-c4 High coherency hybrid-ArF laser: An application to interference lithography Hiroaki Oizumi et al.	Wed-C3-c2 Fabrication of Chiral-Molecular@ Nano particle Complex Materials with Great Chiroptical Effect in Visible Region Duan Xie et al.	Wed-C5-c12 NV-center diamond cantilevers: extending the range of available fabrication methods J. Kleinlein et al.	Wed-D4-c4 Microfluidic Chips for Studying Mass Transport across Permeable Vascular Walls in Drug Delivery Chiara Manneschi et al.
1430	Relocation			
1445	Wed-Keynote-4 'WF Theatre' Chair: Urs Staufer (TU Delft, NL)	Advanced centrifugal microfluidics for Point-of-Care Applications Roland Zengerle		
1530	Poster session 2 (odd numbers) / Exhibition			
1800	End of poster session 2 / Individual transfer to Conference Dinner location 'Madurodam'			

Thursday Morning 24 September 2015				
830	'WF Theatre' Chairs: Hubert Brückl (Danube University Krems , AT) and Dieter Kern (Univ. Tuebingen, DE)		Award Ceremony MNE-Fellow (sponsored by ASML): Emile van der Drift Micro Electronic Engineering Young Investigator Award (sponsored by Elsevier): Stephan Keller	
Thu-MNE-Fellow 'WF Theatre' Chair:		Quantitative technology, a joy forever Emile van der Drift		
915	Relocation			
	A4.1. Soft Lithography 1 Chair: Jens Gobrecht (PSI, CH)	Young Investigator Award lecture, Hot news - Late News Session Chair: Evangelos Gogolides (Demokritos, GR)	C1.3. MEMS/NEMS for Energy Harvesting Chair: Phil Prewett (OSC, UK)	D1.1. Mechanical Sensing Elements Chair: Murali Ghatkesar (TU Delft, NL)
	'Amazon'	'WF Theatre'	'Yangtze'	'Mississippi'
930	Thu-A4-c1 A new photo-curable PDMS with excellent master replication fidelity for fast fabrication of working stamps in soft UV-NIL applications. Manuel W. Thesen et al.	Thu-MEE-YIA AWARD LECTURE Biomaterial Microsystems for Drug Delivery and Bioelectrochemistry S.S. Keller et al.	Thu-C1-c1 Design and fabrication of trapezoidal organic micro-beams for mechanical energy harvesting from environmental sources H. Nesser et al.	Thu-D1-c1 In-line picogram-resolution microchannel resonator for protein adsorption measurement operating at atmospheric pressure J. Groenesteijn et al.
945	Thu-A4-c2 Athermal nanoimprint lithography based on azobenzene resist Christian Probst et al.		Thu-C1-c2 AlN layers for bistable energy harvesting microdevices R. A. Dias et al.	Thu-D1-c2 Fabrication of holder-type piezoresistive cantilever for embryo mass measurement Hayato Sone et al.
1000	Thu-A4-c3 Injection Moulding of hard and soft substrates with Micro- and Nanostructures. Anwer Saeed et al.	Hot News – Late News Session For program see App	Thu-C1-c3 Triboelectric nanogenerator with honeycomb-like nanofiber microstructures Shin Jang et al.	Thu-D1-c3 The Helium Ion Microscope as an ideal complement of FIB technologies for one nanometre-scale graphene nanopore fabrication J. Gierak et al.
1015	Thu-A4-c4 High volume soft-stamp NIL, tooling and process design M.A. Verschuuren et al.		Thu-C1-c4 AlN-based flexible piezoelectric skin for energy harvesting from human motion Francesco Guido et al.	Thu-D1-c4 Iron Oxide Nanoparticle Assembly on DNA Origami Daniel Schiffels et al.
1030-1100 Break/Exhibition				
	A9. Novel Techniques Chair: Andreu Llobera (CSIC, ES)	B1. Pattern Transfer Chair: Raphael Taboryski (DTU, DK)	C1.4. MEMS/NEMS graphene devices Chair: Michel Despont (CSEM, CH)	D1.2. Sensing Systems Chair: Zoran Djuric (SASA, SRB)
	'Amazon'	'Yangtze'	'WF Theatre'	'Mississippi'
1100	Thu-A9-inv Wafer scale 3D-nanofabrication based on retraction edge lithography, corner lithography and anisotropic wet etching of silicon Erwin J.W. Berenschot et al.	Thu-B1-c1 SnOx high-efficiency EUV interference lithography gratings towards the ultimate resolution in photolithography Elizabeth Buitrago et al.	Thu-C1-c5 Graphene membrane fabrication methods for NEMS applications with sealed cavities S.Wagner et al.	Thu-D1-inv Three-dimensional (3D) Scaffolds for Bioartificial Organ-on-a-Chip Systems and Bioelectroanalysis S. Mohanty et al.
1115		Thu-B1-c2 High aspect ratio nanopatterning for x-ray diffractive optics Richard C. Tiberio et al.	Thu-C1-c6 Modification of boronitride-encapsulated graphene using a focused He beam Gaurav Nanda et al.	
1130	Thu-A9-c1 Development of Paper-based Photolithography for Device Applications Michael Cooke et al.	Thu-B1-c3 Effects of thermal nanoimprint lithography on the mechanical properties of PMMA: a comparison between standard NIL and ultrafast NIL Michele Pianigiani et al.	Thu-C1-c7 P3HT:PCBM and graphene inks for organic solar cells J. Kastner et al.	Thu-D1-c5 Highly Sensitive Raman analysis and electrical recording of living cells using vertical plasmonic nanoantennas Michele Dipalo et al.
1145	Thu-A9-c2 High aspect ratio 10-nm-scale nanoaperture arrays with template-guided metal dewetting Ying Min Wang et al.	Thu-B1-c4 Patterning of diamond like carbon films using silicon containing thermoplastic resist (SiPol) as hard mask D. Virganavicius et al.	Thu-C1-c8 Piezoresistive transduction of graphene-based nanoelectromechanical systems Madhav Kumar et al.	Thu-D1-c6 Fast prototyping of plastic microfluidic devices with Vis/IR transparent viewport for live cell imaging Giovanni Birarda et al.
1200	Thu-A9-c3 Magnetic assembly of microspheres into ordered two-dimensional arrays Kanna Aoki et al.	Thu-B1-c5 Polymer injection molding of hard X-ray refractive optics F. Stöhr et al.	Thu-C1-inv Transfer-Free Fabrication of Large-Area Nanocrystalline Graphene Nanoelectromechanical Switch Array Jian Sun et al.	Thu-D1-c7 A disposable miniaturized blood extraction device with flexible parylene microneedles W.-H. Hung et al.
1215	Thu-A9-c4 Approach for novel 3-dimensional imaging by built-in lens mask lithography Toshiki Tanaka et al.	Thu-B1-c6 Pattern Fidelity in 3-D Structures during Pattern Transfer from Atomically Precise Templates Joshua B. Ballard et al.		Thu-D1-c8 Automated characterization of Biopolymer Degradation with a Blu-Ray Readout Platform Andrea Casci Ceccacci et al.
1230-1330 Lunch Break, lunch served in the Exhibition Area				

Thursday Afternoon 24 September 2015

Thursday Afternoon 24 September 2015				
	A4.2. Soft Lithography 2 Chair: Regina Luttgé (TU-Eindhoven, NL)	B2. Plasma Etching Chair: Sandra Wolff (TU Kaiserslautern, DE)	C2. Micro and Nano Fluidic Systems Chair: Marko Blom (Micronit, NL)	D1.3. Optical Sensing Elements Chair: Massimo De Vittorio (Univ. Salento, IT)
	‘Amazon’	‘Yangtze’	‘WF Theatre’	‘Mississippi’
1330	Thu-A4-inv Photonic Crystals for visible light fabricated by reverse nanoimprinting of a high refractive index material C. Pina-Hernandez et al.	Thu-B2-c1 Fabrication of shape memory / silicon bimorph nanoactuators Franziska Lambrecht et al.	Thu-C2-c1 Effect of Different Fluids on Rectified Motion of Leidenfrost Droplets on Micro/Sub-Micron Ratchets Jeong Tae Ok et al.	Thu-D1-c9 Microring resonator based evanescent field sensor with homogeneously integrated P-I-N detector Alina Samusenko et al.
1345		Thu-B2-c2 Supercritical CO ₂ etching of metal thin films for magnetoresistive memory processing Md Rasadujjaman et al.	Thu-C2-c2 Lateral porous silicon membranes fabricated within 2D microchannels through local ion implantation Yingning He et al.	Thu-D1-c10 Monitoring of the extracellular changes in the cell medium by SERS analysis Victoria Shalabaeva et al.
1400	Thu-A4-c5 Smart elastomer substrates for flexible systems Rian Seghir et al.	Thu-B2-c3 Plasma Directed Assembly: A non-lithographic nanoassembly technology for polymeric nanodot and silicon nanopillar fabrication Athanasios Smyrnakis et al.	Thu-C2-c3 Luminescent and absorptive metal-coated droplets for micro-velocimetry Olivier Mesdjian et al.	Thu-D1-c11 Fabrication and application of ultrathin gold nanohole films as complementary dual sensing platform Raphael F Tiefenauer et al.
1415	Thu-A4-c6 Multiplexed microfluidic stamp inking for automated micro-contact printing process Aurore Estève et al.	Thu-B2-c4 Low-damage cryogenic etch of porous organosilicate low-k dielectric L. Zhang et al.	Thu-C2-c4 A novel piezo actuated high stroke polymer membrane for micropumps Ardavan Shabanian et al.	Thu-D1-c12 Label-free biosensing of ErbB2 protein marker detection by an organic distributed feedback laser based on peryleneimide derivative Aritz Retolaza et al.
1430	Relocation to ‘WF Theatre’			
1445	Thu-Keynote-5 Promises, Problems, and Practicalities of Nanomaterial Electronics ‘WF Theatre’ Chair: Ageeth Bol (TU Eindhoven, NL) Aaron D. Franklin			
1530	‘WF Theatre’ Chair: Kees Hagen (TU Delft, NL)		Closing remarks and Farewell	