Thursday, October 22, 2015						
12:00	Registration (Fairway Deck)					
15:00	Equipment Exhibit (Fairway Deck)					
18:00	Welcome Receptio	n (Silverado Ballroom)				
Friday, Oct	tober 23, 2015					
7:15	Breakfast (Fairway	Deck)				
	Session 1: Keynote	e Talks (Silverado Ballroom)				
		Session Chairs: Stephen Y. Chou (Princeton University) and L	Douglas Resnick (Canon N	lanotechnologies, Inc.)		
8:00	Opening Remarks					
8:20	Keynote 1	Nanoimprint System Development and Status for High	Takehiko Iwanaga	Canon		
		Volume Semiconductor Manufacturing				
8:55	Keynote 2	Imprinting with Novel Materials and Methods for Device	James Watkins	University of Massachusetts		
		Fabrication				
9:30	Keynote 3	More (than Moore) applications based on nanoimprint	Helmut Schift	Paul Scherrer Institut		
		lithography				
10:05	Break (Fairway Dec	k)				
	Session 2: Invited	Special Session (Silverado Ballroom)				
		Session Chairs: Douglas Resnick (Canon Nanotechnologies,	Inc.) and Qiangfei Xia (Ur	niversity of Massachusetts)		
10:35	2.1	Where Now in Nanoimprint Lithography (NIL)?	Fabian Pease	Stanford University		
10:55	2.2	Early Days in Nanoimprint	Stephen Y. Chou	Princeton University		
11:15	2.3	The Role of Precision Systems in Nanoimprint Lithography	S. V. Sreenivasan	University of Texas at Austin		
11:35	2.4	A reflection of the outcome of the European Pioneering NIL Lars Montelius		Lund University; International Iberian		
		Programs - from laboratory to business development		Nanotechnology Laboratory (INL)		
11:55	2.5	History and Activities of Nanoimprint in Japan	Shinji Matsui	University of Hyogo		
12:15	Nanoimprint Pione	er Awards				
12:40	Lunch (The Arbor)					
	Session 3: Modelin	ng, Templates and Materials (Silverado Ballroom)		<i></i>		
		Session Chairs: Yoshihiko Hirai (Osaka Prefecture University,) and Marc Verschuuren	(Philips Corporate Technologies)		
13:40	3.1 Invited	Enabling layout and process optimization with fast, full-	Hayden Taylor	University of California, Berkeley		
		field simulation of droplet-dispensed UV-NIL				
14:00	3.2	Platforms for polymeric 3D mold manufacture –	Arne Schleunitz	micro resist technology GmbH		
		origination, tooling and replication				
14:15	3.3	Computational Study on Line Edge Roughness in	Yoshihiko Hirai	Osaka Prefecture University		
		Nanoimprint Lithography				
14:30	3.4	A new photo-curable PDMS with excellent replication	Arne Schleunitz	micro resist technology GmbH		
		fidelity for high volume manufacturing soft UV-NIL				

14:45	3.5	How to correlate the bulk viscosity of nanoimprint materials with the nanometer scale behavior of thin supported films?	Hubert Teyssedre	LETI
15:00	3.6	Effect of Elastic Modulus of UV Cured Resist on De-molding Force	Masamitsu Shirai	Osaka Prefecture University
15:15	Break (Fairway Dec	ck)		
15:45	Poster Session (Fai	rway Deck)		
	Applications			
	P-A.1	Multiplex Chemotyping Microarrays(MCM)	Sun Choi	Korea Institute of Science and Technology
	P-A.2	Thin film metallization of PDMS with improved adhesion properties for micro electrode arrays	Marina Scharin	University of Erlangen-Nuremberg
	P-A.3	Fabrication of Glass MicroFluidic Chips by Glass Molding with Vitreous Carbon Mold	Jonghyun Ju	Chung-Ang University
	P-A.4	Self-aligned Integration of Nanopillars inside Nanofluidic Channel for Enhanced Fluorescence Sensing by Double	Ruoming Peng	Princeton University
	P-A.5	Nanoimprint Lithography Fabrication of bi-layer wire-grid polarizer by glass	Hyungjun Jang	Chung-Ang University
	P-A.7	Full color reflective display based on high contrast gratings	He Liu	University of Southern California
	P-A.8	Fabrication and Demonstration of a Reflective	Yuxuan Wang	Princeton University
	P-A.9	Transfer printed core-shell plasmonic metal nanostructures using high-resolution semiflexible templates for photocatalytic conversion of carbon dioxide to carbon fuels	Robin D. Nagel	Technical University Munich
	P-A.10	Fabrication of Polymer Foils by Extrusion Coating presenting Micro- and Nanostructures for Concentration of Solar Energy	Maria Matschuk	Inmold A/S
	P-A.11	Fabrication of palladium nanoribbon array for fast and	Yusin Pak	Gwangju Institute of Science and
	P-A.12	Nanoscale and flexible memristor fabrication by	Steven J Barcelo	HP
	Modeling, Templat	es and Materials		
	P-M.1	A flexible hybrid stamp for T-NIL based on OrmoStamp	Marc Papenheim	University of Wuppertal
	P-M.2	Reducing the risk for delamination with flexible hybrid stamps	Marc Papenheim	University of Wuppertal

P-M.3	Defined area polymer working stamp manufacture for S&R	Maximilian Rumler	Fraunhofer Institute
P-M.4	Fabrication of Arrays of Smooth Sidewall, Si Nano Pillars	Kaito Yamada	Keio University
P-M.5	Mesa working stamps fabricated from borderless mesa masters for step&repeat UV-NIL stamp replication	Michael M Mühlberger	Profactor GmbH
D M <i>G</i>			
P-M.6	iowards working stamps for soft nanoimprint lithography with PDMS and OrmoStamp	Arne Schleunitz	micro resist technology GmbH
P-M.7	Negative tone high resolution line and space pattern mold	Makoto Okada	Univ. of Hyogo
	fabrication by electron beam lithography using NEB-22		
P-M.8	Patterning DLC:Ag nanocomposites by thermal nanoimprint lithography	Helmut Schift	Paul Scherrer Institut
P-M.9	Comparison of surface relief Bragg gratings fabricated by	Michael Förthner	University Erlangen-Nuremberg
	UV-SCIL and volume index Bragg gratings based on hybrid polymers		
P-M.10	ZEP 520A as combined electron beam grayscale and	Robert Kirchner	Paul Scherrer Institut
P-M.11	selective thermal reflow resist Computational study of demolding process on the side wall	Yoshihiko Hirai	Osaka Prefecture University
	characteristics of the mold in nanoimprint lithography		
P-M.12	Study on template release force in peeling release method	Yoshihiko Hirai	Osaka Prefecture University
P-M.13	Demolding Analysis of Polymer Resist in Hot Embossing via	Qing Wang	Shandong University of Science and
R2R Imprint Lithog	raphy		recinology
P-R.1	High throughput fabrication of nano and micro structured polymer foils by roll-to-roll-extrusion coating	Swathi Murthy	InMold A/S
P-R.2	Development of Functional Films by Roll to Roll Process with Large Film molds	Misato Yamanaka	SOKEN Chemical
P-R.3	Rolling nanoimprint process development for fabricating linear scale with periodic metal diffraction grating	Fuh-Yu Chang	National Taiwan University of Science and Technology
P-R.4	Seamless nanostructured sleeves for industrial applications	Jörg Mick	temicon GmbH
Nanoimprint Proce	202		
P-N.1	Complex 3D structures via hybrid processing of SU-8	Christian Steinherg	University of Wuppertal
	complex of otherers via hybrid processing of 50-0	children Stelliberg	chiterally of Wappertai

P-N.2	The influence of stamp properties during imprinting on 3D	Michael M Mühlberger	Profactor GmbH
P-N.3	Material flow tracking during UV-NIL step&repeat stamp	Michael M Mühlberger	Profactor GmbH
P-N.4	Stamp degradation and lifetime for UV-Curing Sol-Gel resist	Michael J Haslinger	Profactor GmbH
P-N.6	Toward 3D shape manufacturing with Predictive Thermal	Stefan Landis	LETI
P-N.7 Invited	Transition from pressure to capillary-driven flow in thermal nanoimprint: simulated and experimental complex shapes	Hubert Teyssedre	LETI
P-N.8	fabrication Optical scatterometry on nanoimprint-lithography	Jan Engelmann	EV Group
P-N.9	structures Investigation of stamp materials for the UV-NIL replication	Michael M Mühlberger	Profactor GmbH
P-N.10	Large area nanoimprint for diffractive x-ray optics	Dmitriy Voronov	aBeam Technologies Inc
P-N.11	Towards the imprinting of continuous gratings by step &	Massimo Tormen	ThunderNIL
P-N.12	Does pulsed NIL affect thermoplastic polymer properties in	Massimo Tormen	Paul Scherrer Institut
P-N.13	Releasing and Patterning of Single Crystalline Silicon Membranes for 3D Circuits Using Nanoimprint Lithography	Can Li	University of Massachusetts
P-N.14	Double nanoimprint-graphoepitaxy for localized liquid crystalline molecular orientation in imprinted pattern	Makoto Okada	Univ. of Hyogo
P-N.15	Fabrication of sub-100 nm size steep resist patterns by UV nanoimprinting and oxygen reactive ion etching	Takuya Uehara	Tohoku University
P-N.16	Fabrication of chirped gratings using a strained hybrid	Wen-Di Li	Univ. of Hong Kong
P-N.17	Direct Imprint Patterning of 2-D and 3-D Nanoparticle/Polymer Hybrid and Crystalline Metal Oxide Structures for Optical, Electronic, and Energy Devices	James Watkins	University of Massachusetts
P-N.18	Stepwise Current Electrical Sintering of Silver Nanoparticle	Jun Young Hwang	Korea Institute of Industrial Technology
P-N.19	UV-NIL based Nanostructuring of high refractive index materials for grating waveguide structures	Gerald G Lopez	Singh Center for Nanotechnology

	P-N.20	Effect of nozzle dimension and ink property on the printing characteristic in drop-on-demand EHD-jet printing	Jun Young Hwang	Korea Institute of Industrial Technology
	P-N.21	Fabrication and Application of Nano-mushrooms in large- size	Rong-Hong Hong	National Taiwan University
	P-N.22	Tuning Period of Nanogratings by Mechanical Stretching	Haixiong Ge	Nanjing University
	P-N.23	UV Nanoimprint Lithography by using Water Soluble Sacrificial Mold	Hiroaki Kawata	Osaka Prefecture University
17:30 18:00 21:00	Banquet at Markha Buses depart to Ma Banquet Starts Buses depart to Silv	am Vineyards arkham Vineyards verado Resort		
Saturday, C	October 24, 2015			
7:15	Breakfast (Fairway	Deck)		
	Session 5: Applicat	cions (Silverado Baliroom) Session Chairs: Haixiona Ge (Naniina University) and Wei Wi	u (I Iniversity of Southerr	n California)
8:15	5.1 Invited	Significant Light Extraction Enhancement of Organic Light- Emitting Diodes Using Embedded High-index Deep-Groove Dielectric Nanomesh Fabricated by Large-area Nanoimprint	Ji Qi	Princeton University
8:35	5.2	Nanoimprint for the Fabrication of Bit Patterned Media at	Zhaoning Yu	Seagate
8:50	5.3	Printed Active Photonic Crystals in High Refractive Index Functional Materials for Visible Light Applications	Carlos A Pina- Hernandez	abeam Technologies
9:05	5.4	Novel Imprint Transfer One Step Patterning 5.46" Silver Nanowire On-Cell Touch Sensor	Yi-Jiun Wu	AU Optronics
9:20	5.5	Fast Flexible Thin-Film Transistors with Deep Submicron Channel Enabled by Nanoimprint Lithography	Jung-Hun Seo	University of Wisconsin-Madison
9:35	5.6	Effects of Molecular Weight on Chain Alignment and Performance of Nanoimprinted Polymeric Solar Cells	Walter Hu	University of Texas, Dallas
9:50 Break (Fairway Deck)				
	Session 6: R2R Imp	orint Lithography (Silverado Ballroom) Session Chairs: L. Jay Guo (University of Michigan) and Jame	es Watkins (University of	Massachusetts)
10:25	6.1 Invited	Development of Nanoimprinting related technologies at the University of Michigan	L. Jay Guo	University of Michigan

10:45	6.2	Multi-functional Silicone Moulds for Reactive Release Agent Transfer in UV Roll-to-Roll Nanoimprinting	Jarrett J Dumond	Singapore University of Technology
11:00	6.3	Experiments towards Establishing of Design Rules for R2R- UV-NIL with Polymer Working Shims	Dieter Nees	Joanneum Research, Austria
11:15	6.4	Development of under 100 nm resolution mold and silver ink patterning process	Naoto Ito	Asahi Kasei
11:30	6.5	Roll-to-Roll UV Nanoimprint Processes and Applications	Shrawan Singhal	University of Texas
11:45	6.6	Fabrication of a large-area hierarchical superhydrophobic metal surface with anti-icing properties	Shinill Kang	Yonsei University
12:00	Lunch (The Arbor)	nrint Processes (Silverado Ballroom)		
		Session Chairs: Shinji Matsui (University of Hyogo) and Helm	nut Schift (Paul Scherrer i	Institut)
13:15	7.1 Invited	High volume soft-stamp NIL, tooling and process design	Marc Verschuuren	Philips Corporate Technologies
13:35	7.2	Fabrication of micro/nano-porous AAO molds using a modified process of UV-lithography, anodizing and wet- etching	Dae-Yeong Jeong	Korea Electrotechnology Research Institute
13:50	7.3	Procedure for high temperature nano-imprint of organic semiconducting polymer	Si Wang	University of Wuppertal
14:05	7.4	Nanotemplate Selective Area Growth of InGaN/GaN Nanocolumns using Nanoimprint-Patterned 2-inch AlN/Si Substrates	Katsumi Kishino	Sophia University
14:20	7.5	Variable three-dimensional plasmonic structures fabricated by hyperbaric nanoimprint lithography	Stefano Cabrini	The Molecular Foundry, Lawrence Berkeley National Laboratory
14:35	7.6	Robust Thiol-ene Cross-linked Ethylene-Propylene Terpolymer for Fabricating UV-curing Nanoimprint Soft mold	Xin Hu	Changshu Institute of Technology
14:50	7.7	Probing Sub-5 nm Gap Plasmon Using Collapsible Nano- fingers	Boxiang Song	University of Southern California
15:05	Break (Fairway Dec Session 8: Biotech	ck) nology Applications (Silverado Ballroom) Session Chairs: Walter Hu (University of Texas, Dallas) and F	lella-Christin Scheer (Un	iversity of Wuppertal)
15:35	8.1 Invited	Nanoimprint-Assisted Shear Exfoliation (NASE) Technology for Producing MoS ₂ Transistor Biosensors	Xiaogan Liang	University of Michigan

15:55	8.2	Nanoelectrode Arrays Fabricated by Nanoimprint Lithography for Charge Transport Study of <i>Geobacter</i> pili	Shuang Pi	University of Massachusetts
16:10	8.3	Transdermal Drug-Delivery Device Manufacturing in High Volume using NIL Technology	Rizgar Jiawook	Obducat Technologies AB
16:25	8.4	Hot punching as a technique to fabricate and fill microcontainers for oral drug delivery	Ritika Singh Petersen	Technical University of Denmark
16:40	8.5	Replication of multi-scale label-free protein microarray with nanograting structures for parallel analysis	Shinill Kang	Yonsei University
16:55	8.6	Characterization and application of nano- and microstructured silicon-polymer-based surfaces for manipulation of cells	Marina Scharin	University of Erlangen-Nuremberg
17:10	Closing Remarks			