

Time		Tuesday, September 24th , 2019				Time
		NEFELI HALL	DELPHI	JUPITER HALL	ATHENA HALL	
8.30-08.45	JUPITER HALL	Opening Session				8.30-08.45
08.45-09.00	JUPITER HALL	Plenary 1 Moore's Law - Past, Present and Future <u>Yan Borodovsky</u> Former Intel Senior Fellow, USA				08.45-09.00
09.00-09.15						09.00-09.15
09.15-09.30						09.15-09.30
09.30-09.45	JUPITER HALL	Plenary 2 How to arrest and transport biological nano-objects one at a time: Nanovalving of individual Viruses and Macromolecules in liquids <u>Dimos Poulikakos</u> ETH Zurich, Institut für Energietechnik, Switzerland				09.30-09.45
09.45-10.00						09.45-10.00
10.00-10.15						10.00-10.15
10.15-10.30		Coffee break				10.15-10.30
10.30 -10.45						10.30 -10.45
10.45 -11.00		Session A1: EUV and Talbot Lithography Extreme ultraviolet interference lithography for in-lab photoresist development and large-area nanopatterning - Brose S.	Session B1: Nanostructured Surfaces made by capillary filling metal inks on prepatterned substrates Schrift H.	Session C1: Sensors & Actuators I INVITED: Flexible nano-electronics via large-area manufacturing paradigms Anthopoulos T..	Session D1: Nanomedicine & Drug delivery Ultrasound-triggered PLGA-microPlates degradation for on-command drug delivery Sciurti E.	10.45 -11.00
11.00-11.15		Fundamental Research Activities of Extreme Ultraviolet Lithography at NewSUBARU Synchrotron facility Watanabe T.	Direct Nanoimprinting of Colloidal Self-Organizing Nanowire/-particle Inks for Flexible, Transparent Electrodes Engel L.		Tumour spheroids formed in a caged space for drug and microfluidic based assays He Y.	11.00-11.15
11.15-11.30		Large-area resistless patterning on hydrogen-terminated Si using EUV lithography Tseng L.	Graphene on functional polymers – evaluation of stress and doping, and applications Müller M.	Optimized magnet configurations for Lorentz actuation of a μ -Coriolis mass flow sensor Schut T.	INVITED: Nanomedicine with Silicon Nanostructures Voelcker N.	11.15-11.30
11.30-11.45		Simulation and nanofabrication of complex EUV achromatic Talbot lithography masks for high-resolution and high-throughput patterning Kazazis D.	Fabrication of A Low-Noise Interchangeable Platform for Nanostructured Transport Measurements in Fluidic, Cryogenic, and In Situ Electron Microscopy Environments Swett J.	Optical Waveguide Switching Based on a Co-Integrated SMA Bimorph Actuator Rastjoo S.		11.30-11.45

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11.45-12:00	Displacement Talbot Lithography – an emerging technology for rapid nanopatterning on 8-inch scale, Jefimovs K.	Stable fabrication of anti-reflection with nano-structure for high-temperature application, Kurihara K.	An optomechanical resonator with a plasmonic half bull's eye antenna and an aperture for wavelength detection Kometani R.	Fabrication and ex vivo retention study of biodegradable microcontainers for oral drug delivery Abid Z.		11.45-12:00
12.00-12:15	LUNCH BREAK					12.00-12:15
12.15- 12:30						12.15- 12:30
12.30-12:45						12.30-12:45
12.45-13:00						12.45-13:00
13.00-13.15						Session A2: Etching Etch challenges on Single and Dual SOI fins patterning for CFET at 25nm fin pitch Chan B.
13.15-13.30	On the formation of Black Silicon in SF6-O2 plasma: BSI on Demand Nguyen V.		Silicon-based Micro Oscillating Heat Pipes for High Energy Physics and Space Applications Frei T.	Nanoplasmonic mid-IR biosensors for ultrasensitive molecular spectroscopy John-Herpin A.	13.15-13.30	
13.30-13.45	INVITED: Applications of Atomic Layer Deposition (ALD) and Atomic Layer Etch (ALE) in Advanced Semiconductor Manufacturing Danek M.	FABRICATION OF ELASTIC METALLIC SUPERHYDROPHOBIC SURFACES Franssila S	Fabrication of Liquid Metal Based Deformable Optics: a Synergy Between Soft Lithography and FabLab Technologies <u>Businaro L.</u>	Non-invasive bladder cancer detection based on localized surface plasmon resonance sensing approach Chang W.	13.30-13.45	
13.45-14.00		Fully Organic and Biodegradable, Cellulose-based, Superhydrophobic Materials Milionis A.	Spatially controlled 3D origami MEMS actuation using focused electron beam exposure and polymer densification Kirchner R.	Silicon-based Monolithic Spectroscopic Circuit for Label-free Point-of-Need Diagnostics Raptis I.	13.45-14.00	
14.00-14.15	Self-limiting Atomic Layer Etching of SiO2 using Low Temperature Cyclic Ar/CHF3 Plasma Cabrini S.	Fabrication and Characterization of Anti-Fogging Surfaces Templated from BlockCopolymer Self-Assembly Mandsberg N.	Fabrication and characterization of SMA thick film actuator array for high power tactile display Xu J.	Cost-Effective Three-Dimensional Plasmonic SERS Papers for Rapid Paraquat Poisoning Diagnosis with Portable Raman Spectrometer, Chang S.	14.00-14.15	
14.15 - 14.30	POSTER SESSION 1 (EVEN NUMBERS) & Coffee break					14.15 - 14.30
14.30-14.45						14.30-14.45
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16.00 -16.15						16.00 -16.15

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16.15 -16.30	JUPITER HALL	Plenary 3				16.15 -16.30
16.30-16.45		Emerging Technologies for Biohybrid Devices				16.30-16.45
16.45-17.00		Takeuchi, Shoji Tokyo University, Japan				16.45-17.00
17.00-17.15	JUPITER HALL	Key-note on Innovation				17.00-17.15
17.15-17.30		Innovation Mindset: the top 10 critical insights every technology entrepreneur should know				17.15-17.30
17.30-17.45		Filippopoulos, Fotis Curious Inc. and International Hellenic Univ., Greece				17.30-17.45
17.45-18.00		Short Break				17.45-18.00
18.00-18.15		Session A3: Modeling & Metrology Deep Learning Nanometrology of Line Edge Roughness Constantoudis V.	Session B3: Nanofabrication & Nanodevices Super-resolution fabrication of surface relief structures by contractive scaling of nanoporous monoliths Vainos N.	Session C3: Flexible & Wearables INVITED: Printed flexible electronics for wearable applications Cui, Zheng	Session D3: Cell & Organ-on-chip I A method for the multiple direct imaging by TEM, AFM, and SERS of ion channels on plasma membranes suspended on super-hydrophobic surfaces Moretti M.	18.00-18.15
18.15-18.30		Modeling the Resolution Limits of Scanning Electron Microscope Roughness Metrology Mack C.	Sub-15 nm multilayer nanopillar patterning for hybrid SET/CMOS integration Pourteau M.		Microwave radars in unlabelled, non-destructive Cell detection Sedaghat Pishesh H.	18.15-18.30
18.30-18.45		A Validation of UV Imprint Process Simulation using a Thermo-viscoelastic Constitutive Model Yamashita R.	Time-efficient fabrication of Sierpiński-fractal bow-tie nanostructures with a focused helium ion beam and their spectral characterization Laible F.	Ormocomp-Based Printed Circuit Board Technology for Body-Implantable Applications Scotti G.	Extracellular matrix protein micropatterning technology for whole cell cryogenic electron microscopy studies Engel L.	18.30-18.45
18.45-19.00		Modeling, monitoring and future projection of stochastic defects in EUV lithography Fukuda H.	Pathways to laser generated nano patterns for functional surfaces Kling R.	Cell compatibility study of SU-8 microneedles based wearable dry electrodes for electroencephalogram Konstantinidis G.	Polymer microfluidic chip with integrated thermoformed microcavity array for exposure of 3D cell aggregates to gradients of soluble factors Maurer P.	18.45-19.00
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