

MNE 2006

Parallel Sessions

NAME	TITLE	PROGR. REF.
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Monday, September 18th

Session 1A		Microsystems and their fabrication 1	
Auditorium		Chair: Juergen Brugger, Stella W. Pang	
11:30-12:00	Anja Boisen	Nano and micro-cantilever sensors - new materials and new read-out principles	1A-1 INVITED
12:00-12:20	Flavio Pardo	Flexible fabrication of large pixel count piston-tip-tilt mirror arrays for fast Spatial Light Modulators.	1A-2
12:20-12:40	Edouard Duriau	Fabrication of Cantilevers and Double AFM Tips for the NanoProfilier	1A-3
12:40-13:00	Manuel Aschwanden	Tunable diffraction grating based on electroactive polymers	1A-4

Session 1B		Nanodevices 1	
CIC1 Room		Chair: John R.A. Cleaver, Michael Stuke	
11:30-11:50	Tatiana Borzenko	Micro-patterned RTDs: fabrication details and device performance	1B-1
11:50-12:10	Vito Errico	Quantum Dot Nano-Cavity Emission Tuned by a Circular Photonic Crystal Lattice	1B-2
12:10-12:30	Vincent Reboud	Spontaneous emission of nanocrystals in nanoimprinted photonic structures	1B-3
12:30-12:50	Laura Heyderman	Permalloy thin films exchange-coupled to arrays of stencilled cobalt islands	1B-4

Session 1C		Process Diagnostics and Control	
A2+A3 Room		Chairs: Albert Cornet, Steven Steen	
11:30-11:50	Atsuko Yamaguchi	Single-shot Method for Bias-free LER/LWR Evaluation with Little Damage	1C-1
11:50-12:10	Dominik Ziegler	AFM Topography with Online Surface Potential Compensation	1C-2
12:10-12:40	Anthony Walton	Test structures for characterising microelectronic and MEMS related processes	1C-3 INVITED
12:40-13:00	Nicola Naujoks	Measuring electrical sample properties by multifrequency AFM	1C-4

Session 2A		Nanoscale Engineering and Fabrication 1	
Auditorium		Chair: Jacques Gierak, José I. Martín	
15:00-15:30	Ran Ji	All roads lead to Rome: Two methods for the fabrication of perfectly ordered circular or elliptical nanoring arrays based on interference lithography	2A-1
15:30-15:50	Dawn Bonnell	Ferroelectric Nanolithography: Assembling Multi Component Nanostructures into Functional Devices	2A-2
15:50-16:10	Morten Gersborg-Hansen	Polymer-based nano-fluidic dye laser	2A-3
16:10-16:30	Thomas Sünner	Fine-tuning of GaAs photonic crystal cavities by digital etching	2A-4
16:30-16:50	Cristian Giordano	Nanocrystals cylindrical microcavities exploiting thin-walled InGaAs/GaAs microtubes	2A-5
16:50-17:10	Akira Fujimoto	Nano-structured surface fabrication for higher luminiscent LED by self-assembled block copolymer	2A-6 INVITED
17:10-17:30	Steven Steen	Wafer Scale 3D Integration: Overlay as the key to drive potential	2A-7

Session 2B		Micro- and Nano-systems for Biology 1	
CIC1 Room		Chair: Yong Chen, César Fernández	
15:00-15:30	A. Offenhaeuser	DNA, proteins, and neurons coupled to electronic devices	2B-1 INVITED
15:30-15:50	Ulrike Lehmann	On-chip antibody handling and detection in a magnetic droplet manipulation system	2B-2
15:50-16:10	Daisuke Saya	Collective fabrication of in-plane silicon nanotip for parallel femtoliter droplet deposition	2B-3
16:10-16:30	Alicia Johansson	Surface stress measurement in liquid using SU-8 cantilevers with integrated readout	2B-4
16:30-16:50	Fu-Hsiang Ko	Self-Aligned Gold-Silicide Nanowires for Protein Sensing	2B-5
16:50-17:10	Jérôme Polesel Maris	Piezoresistive Cantilever Array for Applications in Life Sciences	2B-6

Session 2C		Photon Lithography	
A2+A3 Room		Chairs: Massimo Gentili, Frank Michael Kamm	
15:00-15:20	Takako Yamaguchi	Fabrication of hp 32 nm Resist Patterns using Near-field Lithography	2C-1
15:20-15:40	Andy Ma	Progress Towards Defect-free Masks for Extreme Ultraviolet Lithography	2C-2
15:40-16:00	Artak Isoyan	EUV Holographic Lithography: First Results	2C-3
16:00-16:20	Abani Biswas	A 45 Degree Dual Dipole Decomposition Scheme to Improve Image Fidelity	2C-4
16:20-16:40	Yasin Ekinci	20 nm Line/Space Patterns in HSQ Fabricated by EUV Interference Lithography	2C-5
16:40-17:00	Yasuhisa Inao	Near-Field Lithography as prototype nano-fabrication tool	2C-6