

# Micronano System Workshop

## MSW 2012



Innovation Arena for Research & Industry

9th Micronano System

Technology Event

9-10 May, Linköping

Program 9<sup>th</sup> of May  
Location: Collegium

Time	Activity	Abs #
9:00-11:00	Registration	
11:00-11:10	Welcome Prof. O. Inganäs	
11:10-11:50	<b>Plenary – F. Höök</b> Generic small-scale sensors for diagnostic and drug screening applications	<b>P1</b>
11:50-12:20	<b>Invited speaker B. Högberg</b> DNA Nanostructures for Biomedicine	<b>I1</b>
<b>Lunch</b>		
13:30-15:00	Poster Session Brokerage Event	
<b>Session 1</b>		
15:00-15:20	P. Augustsson Enrichment of cancer cells from blood using microchannel acoustophoresis	01
15:20-15:40	F. Mazzotta High throughput fabrication of plasmonic nanostructures in nanofluidic pores for biosensing applications	02
15:40-16:00	F. Töpfer High-resolution microwave skin cancer diagnostic tool based on micromachined interface.	03
16:00-16:20	<b>Coffee Break</b>	
<b>Session 2</b>		
16:20-16:40	S. Ogden Modeling and analysis of a paraffin microactuator	04
16:40-17:00	S.A. Wilson An ultra-compact micro-valve	05
17:00-	Study visit – Microscope	
19:30	Conference dinner – Läns museet	



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Program 10th of May  
Location: Collegium

9:00-9:40	<b>Plenary – G. Stemme</b> Heterogeneous integration for MEMS	P2
9:40-10:10	<b>Invited Speaker –D.-H. Kim</b> Flexible and Stretchable Electronics and Applications for Biomedical Devices	I2
10:10-10:30	<b>Coffee Break</b>	
	<b>Session 3</b>	
10:30-10:50	Z. Wu Microfluidic stretchable intelligence.	06
10:50-11:10	N.D. Robinson Electrolysis-free electrokinetic systems based on conjugated polymer electrodes	07
11:10-11:30	A. Månsson Ultrafast nanoseparation by molecular motor driven transport on a chip	08
11:30-11:50	N. Sandström Intregation of a QCM with an OSTE cartridge	09
11:50-12:10	A.C. Fisher Fabrication of high aspect ratio trough silicon vias (TSVs) by magnetic assembly of nickel wires	10
12:10-12:30	S. Farjana Strain sensitivity of carbon nanotubes modified cellulose	11
	<b>Lunch</b>	
13:30-14:20	Poster session Brokerage Event	
	<b>Session 4-1</b>	
14:20-14:40	F. Nikolajeff Nanocrystalline diamond - increasing the sensitivity, specificity and durability for biomedicine	12
14:40-15:00	G. Andersson Tactical grade gyro for inertial measurements	13
15:00-15:20	A. Prieto-Astalan Sensors network for safety & security applications	14
15:20-15:40	S. Rahiminejad Micromachined ridge gap waveguide and resonator for 220-325 GHz	15
15:40-16:00	<b>Coffee Break</b>	
	<b>Session 4-2</b>	
16:00-16:20	K. Hjort A polyimide foil non-contact temperature sensor	16
16:20-16:40	V.J. Dubois A single-lithography rib waveguide Mach-Zehnder sensing circuit with low back-reflection surface grating couplers	17
16:40-17:00	T. Schönberg Intelligent injection molding tools with surface embedded sensors	18
17:00-	<b>Conference Closing</b>	

**Study visits:**

For those interested we will organize study visits to the new high resolution electron microscope [Arwen](#). The number of slots is limited. The visit will take place the 9th of May between the last lecture and the conference dinner.

For those interested we will organize study visits to the [Printed Electronics Arena](#) at Acreo in Norrköping. The number of slots is limited. The visit will take place the 10th of May after the last lecture. We will provide bus transport to Norrköping for those interested.

For more info about the study visits, please contact us at [maw2012@ifm.liu.se](mailto:maw2012@ifm.liu.se)

