Tuesday, 4 May

Registration

Conference opening 10:30

Key note: Dr. Benedetto Vigna

Invited: Prof. Lars Samuelson

Lunch break

Poster session/Brokerage event

Invited: Dr. Edvard Kälvesten

Coffee break

Oral session 1a: Medical

Oral session 1b: Automation

Social event

Conference dinner

Wednesday, 5 May

Key note: Prof. Luke Lee

Invited: Prof. Sami Franssila

Coffee break

Oral session 2a: Transport

Oral session 2b: CleanTech

Lunch break

Invited: Dr. Marcel Giesen

Oral session 3a: Telecom

Oral session 3b: Security

Conference closing 16:00

Scientific Program 4 May 2010

09.00–10.30 **Registration and Coffee**

10.30 **Welcome** G. Stemme & C. Vieider
Room: Repslagaren

10.40 **Invited 1:** A new RF-MEMSmetal via capping platform
E. Kälvesten – Silex Microsystems AB
Room: Repslagaren

11.10 **Invited 2:** Chemical microsystems: nanoliters and attomoles
S. Franssila – Aalto University
Room: Repslagaren

11.40 **Lunch**

13.00 **Poster Session**

15.00 **Key Note:** Nanoplasmonic satellites and optofluidic application specific Integrated Systems
Prof. L. Lee, Dept. of Bioengineering, UC Berkeley
Room: Repslagaren

15.40 **Coffee Break**

	Medical Technology *Room: Repslagaren*	**Security & Safety** *Room: Segelmakaren*
16.00	Nanoplasmonic sensing of cellmembrane mimics F. Höök – Chalmers	Technology for Modular and Reconfigurable Rapid Response Nanosatellites F. Bruhn – ÅAC AB
16.20	Breath alcohol sensor for emergency care J. Steggo – Hök Instr. AB	A microstructured magnetoresistive magnetometer for space applications A. Persson – UU
16.40	Microfluidic systems for point-of-care diagnostics W. van der Wijngaart – KTH	Ink-Jet printing of wireless surveillance tags with integrated sensor functionality H.-E. Nilsson – Mid University
17.00	Microfluidic based proteomics for biomarker discovery and early diagnostics F. Nikolajeff – UU	Scintillator matrix technology A. Sahlholm – Scint-X AB

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	Medical Technology *Room: Repslagaren*	**Security & Safety** *Room: Segelmakaren*
17.20	Self assembly monolayers of designed peptides on gold nanoparticles can act as specific sensors D. Ilver – Imego AB	Quantum-well silicon-germanium bol ometers for low-cost infrared imagers F. Niklaus – KTH
17.40	Acoustic whole blood plasmapheresis chip for psa microarray diagnostics A.A. Tajudin – LU	Low cost, high performance long wave infrared microbolometer R. Audun – SensoNor A/S
18.00-19.30	**Social Event**	
20.00	**Conference Dinner**	

Scientific Program 5 May 2010

08.30 **Key Note:** MEMS Move into Smart Sensors,
B. Vigna, VP MEMS & Healthcare Product Division, ST Microelectronics.
Room: Repslagaren

09.10 **Coffee Break**

	Cells on Chip *Room: Repslagaren*	**Process & Packaging** *Room: Segelmakaren*
09.40	Cell separation based on acoustophoresis and applications in health care. T. Laurell – LU	Low temperature cofired ceramics for mems bonding M.F. Khan – Chalmers
10.00	Microfluidic technologies for cell-based analysis of surface receptors with fast activation kinetics M. Karlsson – Cellectricon AB	MEMS at Sintef D. Wang – SINTEF A/S
10.20	Organic bioelectronics E. Jager – LiU	Expanding in situ TEM instrumentation with MEMS technology A. Nafari – NanoFactory AB
10.40	Controlling cell interaction by ultrasound in a multi-well microplate M. Wiklund – KTH	Small but tough - microsystems for harsh environments K. Brinkfeldt – Swerea IVF
11.00	Bacteria isolation from whole blood for Sepsis diagnostics A. Russom – KTH	Low resistive metallic through silicon via A. Ljunggren – ÅAC AB
11.20	Microstructures cell culturing platform for qualitative neuroscientific studies T. Schönberg – Acreo AB	Low-cost Through Silicon Vias (Tsvs) with wire-bonded metal cores and low capacitive substrate-coupling A. Fischer – KTH

11.40 **Lunch**

Scientific Program 5 May 2010

	CleanTech & Automation *Room: Repslagaren*	**Telecom** *Room: Segelmakaren*
12.40	New cost effective micro fuel cell charger A. Lundblad – MyFC	Microwave MEMS activities at KTH J. Oberhammer – KTH
13.00	Silicon carbide based sensor system for domestic biofuel boiler control B. Hammarlund - Sensic	High performance passive RF components for mobile communications I. Katardjiev – UU
13.20	IR-sensors for measurement of greenhouse gases H. Rödjegård – SenseAir	RF MEMS in a GaAs MMIC foundry process: applications and test results R. Malmqvist
13.40	Combining active control and conditioning based monitoring using smart embedded Piezo sensors and actuators H. Åkesson – Acticut	RF MEMS tuneable high-impedance metamaterial surfaces for millimeter-wave applications M. Sterner – KTH
14.00	Raw milk quality control using acoustophoresis C. Grenwall – LU	A miniaturized optical communication system for microspacecraft K. Palmer – UU
14.20	Micromirror arrays for maskless lithography T. Karlin – Micronic	Hot-wall MOCVD growth of hexagonal GAN pyramids for single-photon emitter ap A.Lundskog
14.40	**Coffee Break**	
15.10	**Invited 3:** RF-MEMS capacitive switches enable tunable RF for mobile devices M. Giesen - TDK-EPC Corporation *Room: Repslagaren*	
15.40	**Invited 4:** Nanometer structure consortium L. Samuelson – Lund University *Room: Repslagaren*	
16.10	**Conference Closing** *Room: Repslagaren*	
16.40	Transport leaves for optional tour at Electrum in Kista	
17.00	Tour of the Electrum laboratory cleanroom	