

MSW '02 &gt; Background &gt; MSW '96

## MSW '96

Most presentations at this year's workshop were held in English. The presentations having a non-English title below were, in most cases, held in the local language.

### MARCH 26, 1996

8.30-9.00	<i>Registration</i>	
9.00	Introduction	Jan Söderkvist (Colibri Pro Dev. AB)
9.15	Technology and applications of microsystems (Invited)	Nico F. de Rooij (Institute of Microtechnology, University of Neuchâtel, Switzerland)
10.00	Poröst kisel som bärar-matris i kiselintegrerade enzymreaktorer	Johan Drott, Thomas Laurell (Lunds Tekniska Högskola) Lars Rosengren (Uppsala University)
10.25	<i>Break</i>	
10.55	Mikrostrukturer tillverkade på kvartsglassubstrat	Peter Norlin, Håkan Elderstig, Lili Forssén, Johan Holm (IMC)
11.20	Polymera mikrostrukturer och replikeringstekniker	Olle Larsson (IMC)
11.45	Elektrodeponeringsprocesser vid mikrostrukturtillverkning	Pelle Rangsten, Ylva Bäcklund (Uppsala University)
12.10	<i>Discussion: Future MST materials</i>	
12.20	<i>Lunch</i>	
13.20	Wafer bonding for formation of electronic materials and sensor structures	Stefan Bengtsson (Chalmers Tekniska Högskola)
13.45	Strength and stress measurements on MST	Staffan Greek, Fredric Ericson, Stefan Johansson,

	related thin films by micromechanical techniques	Jan-Åke Schweitz (Uppsala University)
14.10	The sensor & microsystem group at Chalmers	Gert Andersson (Chalmers Tekniska Högskola)
14.35	MEMS at S3/KTH	Göran Stemme (KTH)
14.55	<i>Break</i>	
15.25	Chalmers KiselDesign	Sten Norrman (Chalmers Tekniska Högskola), Hans Richert (Bofors AB)
15.45	MEMS vid Industriellt Mikroelektronik Centrum	Christian Vieider, Håkan Elderstig, Lili Forssén, Michiel Hamberg, Johan Holm, Wlodek Kaplan, Olle Larsson, Peter Norlin (IMC)
16.10	SUMMIT	Jan-Åke Schweitz (Uppsala University)
16.35	Tour of the Ångström Laboratory	
18.00	<i>Dinner and Poster session</i>  Posters and Exhibitors listed alphabetically: - Colibri Pro Development AB / Micro Structure Bulletin - Heavy ion induced etch anisotropy in single crystalline quartz - Industriellt Mikroelektronik Centrum (IMC) - Low cost NDIR gas sensors - MecMOS - Megatel AB / Karl Süss - Microassembly of a micromotor - Microfluid device research at KTH - Micromechanics in quartz - Microstructure-Biosensors, will they do the job? - MST at Uppsala University - Mätning av tunnfilmer med coherence radar / Optac 2000 - On the flow behavior of diffuser/nozzle elements microfabricated in silicon	

**MARCH 27, 1996**

8.45	Technologies for silicon micromechanical sensors for automotive applications - a development collaboration between SINTEF and SensoNor (Invited)	Martin Nese, Anders Hanneborg (SINTEF), Henrik Jacobsen, Gjermund Kittilsland, Svein M. Nilsen, Per Øhickers (SensoNor a.s), Norway
9.45	Micromachined vibrating gyroscopes	Jan Söderkvist (Colibri Pro Development AB)
10.10	<i>Discussion:</i> The success of MST in the automotive field, and how can other areas follow.	
10.20	<i>Break</i>	
10.50	Microstructure-Biosensors, will they do the job?	Christine Berggren Kriz, Dario Kriz (Chemel Research Institute, IDEON)
11.15	A flow-through sample cell with electrostatically controlled sample injection into quartz capillaries	Thomas Laurell, Lars Wallman, Johan Drott, S. Nilsson, Johan Nilsson (Lunds Tekniska Högskola)
11.40	Nerve regeneration through micro machined silicon membranes, a possible way to prosthesis control	Lars Wallman, Johan Drott, Lars Montelius, Thomas Laurell (Lunds Tekniska Högskola), Nils Danielsen (Lunds University)
12.05	<i>Discussion:</i> The MST-development in medical-related areas	
12.15	<i>Lunch</i>	
13.15	3D laser micromachining (Invited)	Matthias Müllenborn, Siebe Bouwstra (MIC, Denmark)
14.15	Sacrificial metal etching	David Westberg (Chalmers Tekniska Högskola)
14.40	Mikrostrukturering av kvarts genom jonspårsetsning	Greger Thornell, Klas Hjort, Jan-Åke Schweitz (Uppsala University)
15.05	<i>Discussion:</i> Will new process steps conquer industry - possibilities and limiting factors	
15.15	<i>Break</i>	
15.45	Högpresterande mikroaktuatorer	Stefan Johansson, Mats Bexell, Greger Thornell (Uppsala University)
16.10		

	Fiber optical precision interconnect techniques	Håkan Elderstig, Stefan Lindgren, Henrik Åhlfeldt, Lennart Bäcklin, Lili Forssén, Olle Larsson, Christian Vieider (IMC)
16.35	From simulation to product	Jan Söderkvist (Colibri Pro Development AB)
ca. 17.00	Closing of Workshop	