April 30 (Tuesday) 17:00 - 19:00

17:00 - 19:00 REGISTRATION and reception in the Golden Tulip Hotel

May 1 (Wednesday)

8:30 - 9:00 REGISTRATION AT VENUE

Maastricht Conference and Exhibition Centre (MECC)

(located next to Golden Tulip Hotel)

8:48 - 9:00 OPENING

Opening Remarks: Prof. Albert van den Berg, University of Twente

9:00 - 12:30 **Session 1:** Country/Region Review (including government

policy, education and efforts of standardization

9:00 - 9:12	USA	Dr. Michael Gaitan, NIST
9:12 - 9:24	UK	Geoff Beardmore, Myriad-Technology, Cheltenham
9:24 - 9:36	Taiwan	MEMS in Taiwan: Year 2002 Status
		Prof. Chih-Kung Lee, National Taiwan University,
		Taipei
9:36 - 9:48	Switzerland	Nico de Rooij, IMT, University of Neuchatel
9:48 -10:00	Singapore	MEMS in Singapore: Year 2001-2002 Status,
		Siak Piang Lim, National University of Singapore
10:00 -10:12	Nordic	Sami Franssila, Helsinki University of Technology,
		Finnland
10:12 -10:24	Mediterranean	Paolo Dario, MiTech Lab, Scuola Superiore
		Sant'Anna, Pisa, Italy
10:24 -10:36	Korea	"National Nanotechnology Programs in Korea"
		Young-Ho Cho, KAIST, Taejon

10:36 -11:00 Coffee

11:00 -11:12	Japan	Mr. Takayuki Hirano
		Executive Director, Micromachine Center, Tokyo
11:12 -11:24	Germany	Jan Korvink, IMTEK, Albert-Ludwig University,
		Freiburg (cancelled, speaker not present)
11:24-11:36	France	Emmanuel Bigler, Institut des Microtechniques de
		Franche-Comte, Besancon
11:36 -11:48	China	MEMS development in China
		Zhaoying Zhou, Tsinghua University, Beijing
11:48-12:00	Canada	Canadian Research, Technology, and Product
		Interests in Micromachining: An Update,
		Dan Gale, Canadian Microelectronics Corporation,
		Queen's University, Kingston
12:00 -12:12	Benelux	Albert van den Berg, MESA ⁺ , University of Twente,
		Enschede, The Netherlands
12:12 -12:24	Australia	Ian Bates, RMIT University, Melbourne

12:30 -14:00 Lunch

14:00 - 15:30 Session 2: Fundamental Science and Technology of Nanotechnology

20 min	"The National R & D Strategy of Nanotechnology in Japan" by Prof.	
	Naomasa Nakajima, The University of the Air, Japan.	
2min	Discussion/Questions	
20 min	"Advanced Functional Materials Bridge the Nanotechnology-MST Divide"	
	by D.M.Allen , S.Dunn, P.Kirby and R.W.Whatmore, School of Industrial and	
	Manufacturing Science, Cranfield University, Bedford MK43 0AL, UK.	
2min	Discussion/Questions	
20 min	"From ULSI to Microsystems and Nanotechnology" by G. Borghs, IMEC,	
	Leuven, Belgium	
2min	Discussion/Questions	
20 min	"An Overview of Canada's National Institute for Nanotechnology" by	
	Dr. T. Jackman	
2min	Discussion/Questions	

15:30 - 16:00 Coffee

16:00 - 17:06 **Session 3:** Nanotechnology (continue)

20 min	"Impact of nanotechnology on micromachines: a NTU Experience and
	Perspective" (Author: Prof. Shuo-Hung Chang, Dr. Ming Shyong Lin, Prof.
	Chih-Kung Lee),
2min	Discussion/Questions
20 min	"Nanotechnology in Australia", Dr Chaffey
2min	Discussion/Questions
20 min	"Analysis of European activities in the semiconductor and MEMS fields" by
	JC Eloy, Yole Développement, France
	("MINATEC, a major French initiative in research and technology transfer
	for micro and nanotechnologies", by C. Axelrad, CEA, France, presented in
	Session 7)
2min	Discussion/Questions

17:10 - 17:50 **Session 4: Technology Transfer**

18 min	"MEMs Facility at the Canadian Light Source (CLS) Synchrotron", by
	Dr. David M. Klymyshyn, University of Saskatchewan and TRLabs
	Canada
2min	Questions
18 min	"MEMS in a Si IC Environment" by Raffaella Borzi
2min	Questions

18:15 Departure to "Château Neercanne"

19:00 Banquet

May 2 (Thursday) 9:00 - 10:40 Strategies, new applications and technical aspects of Session 5: micromachines

18 min		"Industrial Strategy on Micromachine Development" by Mr. Toshiro
		Shimoyama, Director, Supreme Advisor, OLYMPUS OPTICAL CO., LTD.
	2 min	Questions
18min		"Micromachine Strategy in Automotive Industry" by Dr. Kunihiko Hara
		Director of R & D, Board Members, DENSO CORPORATION.
	2 min	Questions
18 min		"Agro-alimentary applications of Microsystems in Spain", Carles Cane,
		Centro Nacional Microelectronica (CNM)
	2 min	Questions
18 min		"Physical Characterization of foundry fabricated scratch drive
		actuators" by Prof Deepak Uttamchandani, Microsystems Group,
		Department of Electronic and Electrical Engineering, University of
		Strathclyde, 204 George Street, Glasgow, Scotland, United Kingdom, G1
		1XW
	2 min	Questions
18 min		"Research & development of Microactuators" by Prof. Beingchu Cai,
		Shanghai Jiao Tang University, China
	2 min	Questions

10:40 - 11:10 Coffee

11:10 - 12:10 **Session 6**

Micromachine applications in Chemistry and Biochemistry Lab-on-chip, Medical Devices and

Diagnostics

18 min		"Micro-Technologies and Health Care" by Claude Clément
	2 min	Questions
18 min		"The Biochip and Microfluidic Applications and Market", by JC Eloy,
		Yole Développement, France (cancelled, speaker not present)
	2 min	Questions
18 min		"Micro Biomedical Diagnostic System for Endoscopic Microcapsule" by
		Jong-Oh PARK, Intelligent Microsystem Center, Seoul, Korea
	2 min	Questions

12:10 - 14:00 Lunch

14:00 - 15:40 **Session 7 Industrial Infrastructure**

18 min		"MEMSCAP: leader in MEMS-based innovative solutions"
		by G. Menozzi, Memscap, France
	2 min	Questions
18 min		"Applications of MEMS in Biotechnology, Automation, Semiconductor,
		Information Technology, and Communication - Taiwan Perspective" by
		Prof. Fon-Shan Huang Yeh, National Tsing-Hua University, Hsinchu, Taiwan
		(presented by Prof. Chih-Kung Lee)
	2 min	Questions
18 min		"MINATEC, a major French initiative in research and technology
		transfer for micro and nanotechnologies", by C. Axelrad, CEA, France.
		("Analysis of European activities in the semiconductor and MEMS
		fields" by JC Eloy, Yole Développement, France, presented in session 2)
	2 min	Questions
18 min		"MEMS Industrialization: Current Issues and Future Perspective" by
		Suk-Han LEE, Korea
	2 min	Questions
18 min		"Effort for MEMS Industrialization in KOTEL, Inc", by Prof. Wendong
		Zhang, China
	2 min	Questions

15:40 – 16:20 **Session 8: Future Outlook**

18 min		Microsystems and Micro@Nano-Technologies in Framework
		Programme 6-IST: "Go small, think big" by D. Beernaert
	2 min	Questions
18 min		"NEXUS & EURIMUS: their role in the future 6FWP-Part 1/Part 2",
		by G. Menozzi, Memscap
	2 min	Questions

16:20 -16:45	Overall Discussion
	Chairman's Summary and Closing of the Sessions
16:45	Departure to "Rederij Stiphout"
17:00 - 21:30	Dinner cruise on the River Maas
May 3 (Friday)	Technical Tour to IMEC/MESA ⁺
9:30	Departure to Leuven (IMEC)/ Enschede (MESA ⁺)
approx. 16:30	End of official Program