



GMe Forum 2005

Society for Micro- and Nanoelectronics
(Gesellschaft für Mikro- und
Nanoelektronik)

Technology – Sensors – Systems – Optoelectronics —
Progress of the GMe

Venue: Vienna University of Technology,
“Festsaal” and “Boeckl-Saal”
Karlsplatz 13
1040 Vienna
Austria

Time: Thursday, March 17, and Friday, March 18, 2005

Supported by:



Federal Ministry for Traffic, Innovation and Technology
(Bundesministerium für Verkehr, Innovation und Technologie)

Federal Ministry of Economics and Labour
(Bundesministerium für Wirtschaft und Arbeit)



Invited Speakers:

- Introduction:
 - Prof. Dr. P. SKALICKY, President of the Vienna University of Technology
- Nanoelectromechanical Systems:
 - Prof. Dr. R. BLICK, University of Wisconsin, Madison, WI, USA
 - Prof. Dr. Ch. HIEROLD, ETH-Zürich, Zurich, Switzerland
- Micromachining with Femtosecond Lasers:
 - Dr. A. ISEMANN, Femtolasers Produktions GmbH, Vienna, Austria
- Bioelectronics:
 - Dr. H.-U. DODT, Max-Planck-Institut für Psychiatrie, Munich, Germany
- Spintronics:
 - Prof. Dr. L. ALFF, Vienna University of Technology, Vienna, Austria
- Carbon Nanotubes:
 - Dr. W. HÖNLEIN, Infineon Technologies AG, Munich, Germany
- Technology:
 - DI. R. MINIXHOFER, austriamicrosystems AG, Unterpremstätten, Austria
 - Dr. H. OKORN-SCHMIDT, SEZ AG, Villach, Austria
 - Dr. A. LUGSTEIN, Vienna University of Technology, Vienna, Austria
- Quantum Devices:
 - Dr. T. MÜLLER, Vienna University of Technology, Vienna, Austria
- Opto-Electronics:
 - Dr. K. HINGERL, Johannes Kepler University Linz, Austria
 - Prof. Dr. G. SPRINGHOLZ, Johannes Kepler University Linz, Austria
- Sensors:
 - Dr. D. ROCHA, Vienna University of Technology, Vienna, Austria

Podium Discussion:

„Who supports technology in Austria?“

Poster Presentation:

Results achieved by the university institutes supported by the GMe

Thursday, March 17, 2005

10:00 – 10:30 Welcome, Coffee

Opening:

10:30 – 11:00 E. GORNIK (President of the GMe)

P. SKALICKY (President of the Vienna University of Technology)

Nanoelectromechanical Systems:

11:00 – 11:45 R. BLICK: *From Classical Mechanics to Quantum-Electro-Mechanics*

11:45 – 12:30 Ch. HIEROLD: *From MEMS to NEMS*

12:30 – 14:00 Lunch Break

Micromachining with Femtosecond Lasers:

14:00 – 14:45 A. ISEMANN: *Micromachining with Femtosecond Lasers*

Bioelectronics:

14:45 – 15:30 H.U. DODT: *Bioelectronics and Bioimaging - New Approaches for the Investigation of Brain Microcircuits*

15:30 – 16:00 Coffee Break

Spintronics:

16:00 – 16:45 L. ALFF: *Spintronics: A New Spin for the World of Electronics*

Carbon Nanotubes:

16:45 – 17:30 W. HÖNLEIN: *Carbon Nanotubes – A Successor to Silicon Technology?*

17:30 – 17:45 Break

Evening Session:

17:45 – 18:00 E. GORNIK: *Presentation of the Activities of the GMe*

18:00 – 19:00 Panel Discussion: "Who supports technology in Austria?"

Friday, March 18, 2005

Technology:

- 09:00 – 09:45 R. MINIXHOFER: *Semiconductor Process Simulation*
09:45 – 10:30 H. OKORN-SCHMIDT: *Using Extreme Sono-Effects to Improve on the Selectivity of Particle Removal to Microelectronic Structure Damage below 65 nm*
10:30 – 11:00 A. LUGSTEIN: *Focused Ion Beam Technology*

11:00 – 11:30 Coffee Break

Quantum Devices:

- 11:30 – 12:00 T. MÜLLER: *Carrier Dynamics at Quantum Dots*

Opto-Electronics:

- 12:00 – 12:30 K. HINGERL: *Photonic Crystals: Optical Materials for the 21st Century*
12:30 – 13:00 G. SPRINGHOLZ: *Lead-Salt Lasers*

Sensors:

- 13:00 – 13:30 D. ROCHA: *Sensor Interface Electronics*

Poster Exhibition:

13:30 Snacks and Poster Exhibition

Registration for the Forum:

At the Web site of the GMe (<http://gme.tuwien.ac.at>), or by e-mail to gme@isas.tuwien.ac.at.

We must have received your registration by Friday, March 11, 2005!

More Information:

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