

# Forum Program

**Thursday, March 17, 2005**

10:00 – 10:30	Welcome, Coffee
	<b>Opening:</b>
10:30 – 11:00	E. GORNIK (President of the GMe) P. SKALICKY (President of the Vienna University of Technology)
	<b>Nanoelectromechanical Systems:</b>
11:00 – 11:45	R. BLICK: <i>From Classical Mechanics to Quantum-Electro-Mechanics</i> – <b>page 3</b>
11:45 – 12:30	Ch. HIEROLD: <i>From MEMS to NEMS</i> – <b>page 5</b>
12:30 – 14:00	Lunch Break
	<b>Micromachining with Femtosecond Lasers:</b>
14:00 – 14:45	A. ISEMANN: <i>Micromachining with Femtosecond Lasers</i> – <b>page 15</b>
	<b>Bioelectronics:</b>
14:45 – 15:30	H.U. DODT: <i>Bioelectronics and Bioimaging - New Approaches for the Investigation of Brain Microcircuits</i> – <b>page 19</b>
15:30 – 16:00	Coffee Break
	<b>Spintronics:</b>
16:00 – 16:45	L. ALFF: <i>Spintronics: A New Spin for the World of Electronics</i> – <b>page 23</b>
	<b>Carbon Nanotubes:</b>
16:45 – 17:30	W. HOENLEIN: <i>Carbon Nanotubes – A Successor to Silicon Technology?</i> – <b>page 27</b>
17:30 – 17:45	Break
	<b>Evening Session:</b>
17:45 – 18:00	E. GORNIK: <i>Presentation of the Activities of the GMe</i>
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* – **page 31**  
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* – **page 33**  
10:30 – 11:00 A. LUGSTEIN: *Focused Ion Beam Technology* – **page 35**

11:00 – 11:30 Coffee Break

### **Quantum Devices:**

- 11:30 – 12:00 T. MÜLLER: *Carrier Dynamics at Quantum Dots* – **page 43**

### **Opto-Electronics:**

- 12:00 – 12:30 K. HINGERL: *Photonic Crystals: Optical Materials for the 21st Century* – **page 49**  
12:30 – 13:00 G. SPRINGHOLZ: *Lead-Salt Lasers* – **page 51**

### **Sensors:**

- 13:00 – 13:30 D. ROCHA: *Sensor Interface Electronics* – **page 59**

### **Poster Exhibition:**

13:30 Snacks and Poster Exhibition