



GMe Forum 2003

Results of Industrial and Academic Research on
Nano-Technology, Micro-Systems, Micro-
Sensors, and Opto-Electronics

Representatives of renowned international companies,
organizations, and universities comment on the state of the art
and future trends.

Progress Show of the GMe

Members of the university institutes supported by the GMe
present the results of their research on microelectronics.

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

Time: Thursday, April 10, and Friday, April 11, 2003

Invited Speakers:

- Introduction:
Prof. Dr. P. SKALICKY, President of the Vienna University of Technology
- SOI and Waferbonding:
Prof. Dr. U. GÖSELE, Dr. S. CHRISTIANSEN, Max Planck Institut für Mikrostrukturphysik, Halle
Dr. G. CELLER, Soitec, Summit, NJ, USA
Ing. F.P. Lindner, T. GLINSNER, V. DRAGOI, J. WEIXLBERGER, C. SCHAEFER, EV Group – Human Resources, Schärding
- Semiconductor Intellectual Property:
Dr. M. KÄSTNER, NewLogic Technologies AG, Lustenau
- System on a Chip:
Dr. D. DRAXELMAYR, DI. R. PETSCHACHER, Infineon Technologies GmbH, Villach
- Nano-Technology:
Dr. E.J. FANTNER, IMS, Wien
Dr. E. HAMMEL, Electrovac, Klosterneuburg
Prof. Dr. H.G. CRAIGHEAD, Cornell University, Ithaca, N.Y.
- Organic Electronics
Prof. Dr. G. LEISING, AT&S, Leoben
- Sensors:
DI. M. BRANDL, Dr. Ch. FÜRBOCK, Dr. F. SCHRANK, Dr. V. KEMPE, AMS, Unterpremstätten
Dr. B. JAKOBY, TU Wien
- Thermal Imaging:
DR. D. POGANY, TU Wien
- Opto-Electronics:
DR. W. SCHRENK, TU Wien
DR. T. FROMHERZ, JKU Linz
DI. K. SCHMIDEGG, JKU Linz

Podium Discussion:

“Can Austria Keep Up Internationally in the Area of Nano-Technology?”

Poster Presentation:

Results achieved by the university institutes supported by the GMe

Thursday, April 10, 2003

Opening:

- 09:00 – 09:30 E. GORNIK (President of the GMe)
P. SKALICKY (President of the Vienna University of Technology)

SOI and Waferbonding:

- 09:30 – 10:15 U. GOESELE, S. CHRISTIANSEN (MPI Halle): “*Strained Si and Wafer-Bonding*”
10:15 – 11:00 G. CELLER (Soitec, Summit, NJ, USA): “*SOI: Developments, Challenges, and Applications*”

11:00 – 11:15 Coffee Break

- 11:15 – 12:00 P. LINDNER, T. GLINSNER, V. DRAGOI, J. WEIXLBERGER, C. SCHAEFER (EV Group, Schärding): “*Key Enabling Process Technologies for Advanced Semiconductors, MEMS and Nanomanufacturing*”

Semiconductor Intellectual Property:

- 12:00 – 12:45 M. KÄSTNER (NewLogic, Lustenau): “*Semiconductor Intellectual Property Industry*”

12:45 – 14:00 Lunch – Catering

System on a Chip:

- 14:00 – 14:45 D. DRAXELMAYR, R. PETSCHACHER (Infineon, Villach): “*Mixed-Signal Design for SoCs*”

Nano-Technology:

- 14:45 – 15:30 E.J. FANTNER (IMS, Wien): “*Micro@Nano-Fabrication-Austria*”

15:30 – 16:00 Coffee Break

- 16:00 – 16:45 E. HAMMEL (Electrovac, Klosterneuburg): “*Applications of Micro- and Nano-Technologies*”

- 16:45 – 17:30 H.G. CRAIGHEAD (Cornell, Ithaca): “*Nanomechanical Systems*”

- 17:30 Panel Discussion: “*Can Austria Keep Up Internationally in the Area of Nano-Technology?*”

Friday, April 11, 2003

Organic Electronics:

09:00 – 09:45 G. LEISING (AT&S, Leoben): “*Integrated Organic Electronics*”

Sensors:

09:45 – 10:30 M. BRANDL, CH. FÜRBOCK, F. SCHRANK, V. KEMPE (AMS, Unterpremstätten): “*A Modular MEMS Accelerometer Concept*”

10:30 – 11:00 B. JAKOBY (TU Wien): “*Sensors and Interface Electronics for Oil-Condition Monitoring*”

11:00 – 11:15 Coffee Break

Thermal Imaging:

11:15 – 11:45 D. POGANY (TU Wien): “*Local Thermal and Current Imaging of Power Devices*”

Opto-Electronics:

11:45 - 12:15 W. SCHRENK (TU Wien): “*Quantum Cascade Lasers*”

12:15 - 12:45 T. FROMHERZ (JKU Linz): “*Light from Silicon: SiGe Quantum Cascade Structures*”

12:45 - 13:15 K. SCHMIDEGG (JKU Linz): “*In-situ Growth Monitoring and On-Line Composition Determination of MOCVD GaN by Spectroscopic Ellipsometry*”

13:15 Snacks and Poster Exhibition

Registration for the Forum:

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

We must have received your registration by April 4, 2003!

More Information:

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