

cfaed SEMINAR

General Scientific Training



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“Standalone Memories: Status and Trends”

Monday, 9 December 2013

15:00

Room BAR 205 — Barkhausenbuilding

TU Dresden, Helmholtzstraße 18, 01069 Dresden

Abstract:

In this talk the current status of semiconductor memories will be reviewed. As a starting point the industry consolidation with only six remaining DRAM and NAND Flash producers will be explained. Then the established memories DRAM, NAND Flash and NOR Flash will be examined. Finally the status of the emerging technologies phase change memory, magneto resistive RAM and resistive switching memories (RRAM) will be explained. The talk will be based on statements, views and publications of leading memory vendors in the respective fields.

- 2009–today *Head of chair of Nanoelectronic Materials and Scientific Director of NaMLab gGmbH*
- 2006–2009 *Head of Institute of Electronic and Sensor Materials at TU Freiberg*
- 1996–2006 *Positions at Siemens/Infineon/Qimonda: Process Engineer at Siemens Semiconductor Regensburg (1996–1999); Integration Manager – Ferroelectric Memories (1999–2000); Project Leader: New Memory Technologies (2000–2003); Flash Predevelopment (2003–2006) and Principal Flash technology (2005–2006)*
- 1995–1996 *Group Leader: Device and Integration at FhG IISB, Erlangen*
- 1996 *Ph.D in Electrical Engineering from Universität Erlangen-Nürnberg*
- 1990–1995 *Scientific Co-Worker at Universität Erlangen-Nürnberg*

We are looking forward to welcoming you to this lecture and an inspiring discussion.

Prof. Gerhard Fettweis
cfaed Coordinator