



TECHNISCHE
UNIVERSITÄT
WIEN

Vienna University of Technology

INSTITUT FÜR
ANGEWANDTE PHYSIK
Institute of Applied Physics
vormals/formerly
Institut für Allgemeine Physik



Wiedner Hauptstraße 8-10/E134, 1040 Wien/Vienna, Austria – Tel: +43 1 58801 13401 / Fax: +43 1 58801 13499 – E-mail: office@iap.tuwien.ac.at / <http://www.iap.tuwien.ac.at>

IAP-SEMINAR

EINLADUNG

Termin: **Dienstag, 15.12.2009 um 16:00 Uhr**
Ort: **Technische Universität Wien,
Institut für Angewandte Physik,
Seminarraum 134A, Turm B (gelbe Leitfarbe), 5. OG
1040 Wien, Wiedner Hauptstraße 8-10**

Vortragender: **Dr. Thomas Neidhart**
Technik Infineon Österreich, Villach/K

Thema: **Challenges of power transistors for energy efficiency**

Kurzfassung

The use of power transistors is getting more and more crucial for daily life's energy consumption in private and industrial applications. New power transistor generations give a $R_{on} \times A$ reduction of 30-50% every couple of year and hence significant reduction of energy losses.

The energy efficiency market is growing strongly in aspects of energy conversion, here especially for new energy forms as solar, wind etc, but also for AC-DC, DC-DC conversion in charging stations for notebook, handhelds and other energy consumers.

An overview will be given over the most important developments for SFETs, IGBT and CoolMos in the last years and the arising challenges there in μ -electronic production.

Furthermore an outlook will be given of the importance of new materials for optimized energy efficiency and future concepts.

*Alle interessierten Kolleginnen und Kollegen sind zu diesem Seminar
(45 min mit anschließender gemeinsamer Diskussion) herzlich eingeladen.*

*H. Störi e.h.
(LVA-Leiter)*