



*Leibniz Institute for
Innovative Microelectronics*

Thomas Schroeder
IHP, Frankfurt (Oder)



Jürgen Schubert
FZ, Jülich

Wilhelm and Else Heraeus Physics School:

Nanoscaled Oxides – Big Opportunities in Small Structures

2nd – 8th August 2009, Physik-Zentrum Bad Honnef (Germany)

***„There is plenty of room at the bottom“
(Richard Philipp Feynman, Nobel Price Laureate 1965)***

Nanoscience and Nanotechnology offer the exciting opportunity to control the growth of oxide systems with reduced dimensions to tailor the properties of complex materials.

The Physics School is intended to teach students and young researchers the current state-of-the-art in this exciting R & D field.

For further information & registration, please consult :

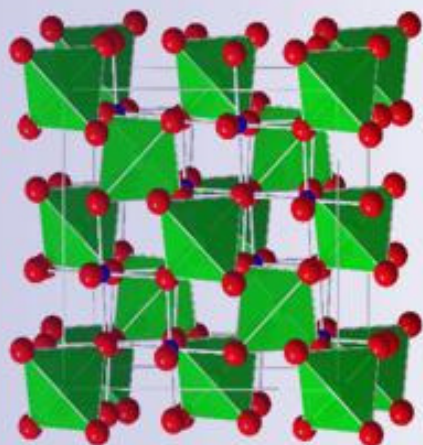
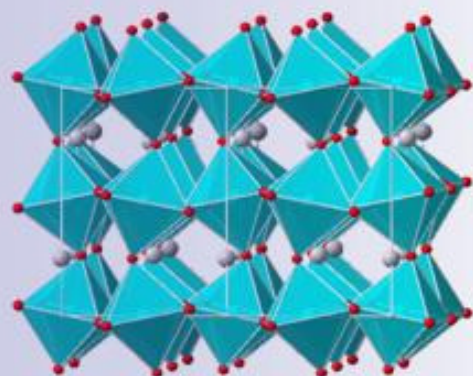
http://www.ihp-microelectronics.com/events/workshop09_1/



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- ***Solid state physics & chemistry of nano-scaled oxides:***

Reinhard Ücker (IKZ, Berlin): Oxide Crystal Growth

Marin Alexe (MPI Halle): Ferroelectrics & Multiferroics

Kathrin Doerr (IFW Dresden): Magnetic Oxides

Michael Siegel (University of Karlsruhe): Superconductivity

Hermann Kohlstedt (FZ Jülich): Surfaces and Interfaces of Oxides

Mirco Imlau (University of Osnabrück): Photofunctional optical Properties

- ***Synchrotron-based materials science characterization:***

Géman Castro (ESRF, France): Hard X-Ray Photoelectron Spectroscopy

Joachim Wollschläger (University of Osnabrück): Modern X-ray Diffraction

- ***Atomic-scale controlled growth of complex oxide systems:***

Jürgen Schubert (FZ Jülich): Advanced Thin Film Deposition

Darell Schlom (Cornell University, USA): Complex Oxide Heterostructure

- ***Oxides with reduced dimensions in modern technology:***

Martin Frank (IBM New York, USA): Gate Dielectrics for advanced CMOS

Marcus Bäumer (University of Bremen): Nanocrystals and Catalysis

Michael Schöning (FH Jülich): Biochemical Sensors

Christian Walczyk (IHP Frankfurt (Oder)): Nonvolatile Memories