## Registration and Posters

Please download the registration form
www.uni-leipzig.de/~fahl/FAHL2005reg.pdf
fill it out and fax until 20.9.2005 to
**+49 (0) 341 9732-668**

The participation fee of €30 (collected on-site as cash only please) includes Monday's welcome dinner, coffee breaks, lunch and the vulcano visit on Tuesday and the abstract booklet.

**A limited number of posters will be solicited from the participants. If you would like to present a poster, please submit an abstract with your registration by September 8th. Notification of acceptance will be given by September 14th.**

Additional information on travel, accommodation, and venue (Landhaus "Wörlitzer Hof") can be found at
www.uni-leipzig.de/~fahl/FAHL2005.html

The FAHL office (Mrs Anja Heck) will assist in making local arrangements. Please call 0341-9732650 after you have registered. A number of hotel rooms have been reserved and will be available only until August 28th 2005.

**Fächerübergreifende Arbeitsgemeinschaft Halbleiterforschung Leipzig**

The "Arbeitsgemeinschaft Halbleiterforschung Leipzig" (**FAHL**) is an interdisciplinary group of institutes and individuals from within and outside Leipzig University. It is dedicated to work in the area of basic and applied semiconductor research and device development.

**www.uni-leipzig.de/~fahl**

The DFG-**Forschergruppe 522** "Architektur von nano- und mikrodimensionalen Strukturelementen" (DFG Research Group on "Architecture of nano- and micro-dimensional building blocks") is dedicated to research on complex, three-dimensional structural elements that can contain curvature and display novel properties related to their geometry and topology. It is a joint project of Leipzig University, the Leibniz-Institute for Surface Modification (IOM), Leipzig and the Max-Planck-Institute for Mathematics in the Sciences, Leipzig (MPI-MiS).

**www.uni-leipzig.de/~for522**

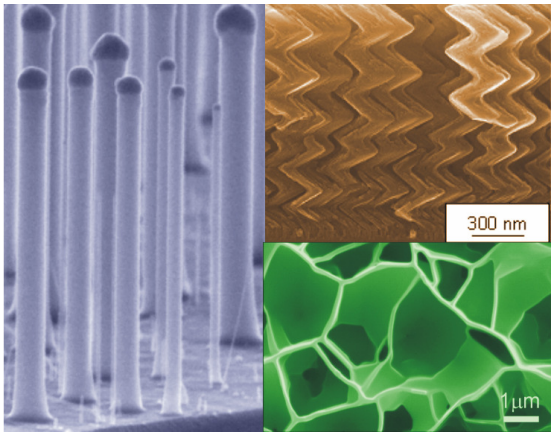
UNIVERSITÄT LEIPZIG

# Academia

# Nano- and Microdimensional Building Blocks

## 26.-27. September 2005
## Wörlitz

Future applications in nanomechanics, photonics, electronics as well as for sensors require a novel architecture of micro- and nanostructures. These use the entire available three-dimensional space and allow for complex shape and topology. New freedom of design emerges in strain management, physical properties and interconnectivity. This approach includes nano- and micropillars, spirals and scrolls with new functionality. Such structures are buildings blocks for the above mentioned applications.




Supported by Deutsche Forschungsgemeinschaft in the framework of Forschergruppe 522

# Program

**Monday, 26.9.2005**

19:00 **Welcome Dinner**

**Tuesday, 27.9.2005**

9:00
**A comparison of different growth approaches for the preparation of ZnO-based nanostructures**
*Dr. Marc Kreye*
*Technische Universität Braunschweig*

9:30
**ZnO nanowire arrays - controlled growth and spatial resolved characterization**
*Priv.-Doz. Dr. Margit Zacharias*
*MPI für Mikrostrukturphysik, Halle/S*

10:00
**Optical modes in ZnO micro- and nanoresonators**
*Dipl.-Phys. Thomas Nobis, Universität Leipzig*

10:30-11:00 **Coffee break**

11:00
**Electrical Transport in Nanowires**
*Dr. Andreas Fuhrer, Lund University*

11:30
**Synthesis of compound-semiconductor nanowires and nanotubes**
*Prof. Dr. Sabine Schlecht*
*Philipps-Universität Universität Marburg*

12:00-13:00 **Lunch**

13:00-14:30 **Visit of vulcano**

14:30-15:30 **Poster Session**

15:30
**Sculptured thin films fabricated with glancing angle deposition (GLAD)**
*Dr. Eva Schubert, Leibniz-Institut für Oberflächenmodifizierung, Leipzig*

16:00
**Multifunctional nanowires, nanotubes and membranes for thermoelectric coolers, magnetic data recording and sensors**
*Dr. Kornelius Nielsch*
*MPI für Mikrostrukturphysik, Halle/S*

16:30
**Rolled-up nanotubes: Fabrication, properties and perspectives**
*Dr. Oliver Schmidt*
*MPI für Festkörperforschung, Stuttgart*

17:00-17:15 **Refreshments**

17:15
**Possibilities of alternative lithographic techniques for the fabrication of nanostructures**
*Priv.-Doz. Dr. Hartmut Leipner*
*Interdisziplinäres Zentrum für Materialwissenschaften, Universität Halle-Wittenberg*

17:45
**Nanofabrication with a mass-separated focused ion beam (FIB)**
*Dr. Lothar Bischoff*
*FZ Rossendorf*