

**International NRW Graduate School of Chemistry - University of  
Münster  
Sigma-Aldrich Chemie GmbH**

**1<sup>st</sup> Joint Workshop on Materials Chemistry  
08. - 10. September 2003**

**lecture hall C1 of the chemical institutes, Wilhelm-Klemm-Straße**

**Monday 08. September 2003**

- 12:45-13:00      Opening of the workshop
- 13:00-14:30      **Invited lecture**
- Dr. José Antonio Alonso Alonso**  
Instituto de Ciencia de Materiales de Madrid  
"Thermodynamic aspects and reactivity of solids"
- 14:30-14:50      Coffee break and poster session
- 14:50-15:10      **Dipl.-Chem. Sascha Ahlert**  
Max-Planck-Institut für Festkörperforschung, Stuttgart  
"Ag<sub>13</sub>OsO<sub>6</sub>, a Subvalent Silveroxide with Interlinked  
Icosahedral Ag<sub>13</sub><sup>4+</sup> Clusters and Dispersed OsO<sub>6</sub><sup>4-</sup>  
Octahedra"
- 15:10-15:30      **Dipl.-Chem. Marc Fricke**  
Fakultät für Chemie, Anorganische Chemie 1, Bielefeld  
"Crystallization of Oriented Calcite Single Crystals  
Underneath Monolayers of Amphiphilic Calix[4]arenes"
- 15:30-15:50      **Dipl.-Chem Gero Frisch**  
Institut für Anorganische und Analytische Chemie, Freiburg  
"Synthesis and Structural Investigation of Cristobalite-  
Related Structures in the System A<sup>I</sup>-M<sup>III</sup>-O (A=Rb,Cs  
M=Al,Ga,Fe)"
- 15:50-16:10      **Dipl.-Chem. Alexander Hannemann**  
Max-Planck-Institut für Festkörperforschung, Stuttgart  
"Computer Simulations of the Sol-Gel Synthesis of  
Amorphous Nitridic Ceramics"
- 16:10-16:30      Coffee break and poster session

- 16:30-16:50 **Dr. Martin Panthöfer**  
Max Planck Institut für Festkörperforschung, Stuttgart  
"Structural Investigations on Endohedral Fullerenes  $M@C_{74}$   
( $M = Ca, Sr, Ba, Eu$ )"
- 16:50-17:10 **Dipl.-Min. Christian Brinkmann**  
Institut für Physikalische Chemie, Münster  
"Reentrance phase transition and the dynamical behavior of a  
crystalline silver ion conductor"
- 17:10-17:30 **Dipl.-Chem. Maik Heidemeier**  
Institut für Anorganische und Analytische Chemie, Münster  
"Rational Design of Single Molecule Magnets"
- 17:30-17:50 **Dipl.-Chem. Mar'yana Lukachuk**  
Institut für Anorganische und Analytische Chemie, Münster  
"The Solid Solutions  $Tm_{1-x}Ni_2In_x$  and  $Eu_{1-x}Pt_2In_x$  and the  
Crystal Structure of  $Sc_3Ni_{2-x+y}In_{4-y}$ "
- 17:50-18:20 **Dr. Shashi G. Jasty**  
Sigma-Aldrich Corporation  
"Sigma-Aldrich Material Science – Products and Capabilities"
- 18:20-22:00 Poster session with drinks and finger food

## Tuesday 09. September 2003

- 8:30-10:00 **Invited lecture**
- PD Dr. Claus Feldmann**  
Philips Research Laboratories, Aachen  
"Optical properties of materials"
- 10:00-10:30 Coffee break and poster session
- 10:30-12:00 **Invited lecture**
- Prof. Dr. Ferdi Schüth**  
Max-Planck-Institut für Kohlenforschung, Mülheim  
"Nanomaterials and catalysis"
- 12:00-14:00 Lunch at Mensa II and poster session

- 14:00-15:30 **Invited lecture**
- Dr. Hubert Huppertz**  
Department Chemie, Ludwig-Maximilians-Universität München  
"High-pressure synthesis of Materials"
- 15:30-15:50 Coffee break and poster session
- 15:50-16:10 **Dipl.-Chem. Holger Emme**  
Department Chemie, Ludwig-Maximilians-Universität München  
"High-Pressure/High-Temperature Synthesis and Crystal Structure of the New *Meta*-Oxoborates  $\text{Ln}(\text{BO}_2)_3$  (Ln = Dy - Lu)"
- 16.10-16.30 **PhD Andreas Flemström**  
Arrhenius Laboratory, Universität Stockholm  
"Guanidinium salt of Mo(II)chloride clusters, difference structures from different solvents"
- 16.30-16.50 **Dipl.-Chem. Alexander Kurz**  
Institut für neue Materialien, Universität Saarbrücken  
"New transparent conducting oxide coatings by wet chemical processes"
- 16:50-17:10 Coffee break and poster session
- 17:10-17:30 **Dipl.-Chem. Frank Ottinger**  
Laboratory of Inorganic Chemistry, ETH Zürich  
"Crystal Structures and Syntheses of the first Nitridoaluminosilicates"
- 17.30-17.50 **Dipl.-Chem Regina Pocha**  
Department Chemie, Ludwig-Maximilians-Universität München  
"The first ternary palladium tin selenide:  $\text{Pd}_7\text{Sn}_2\text{Se}_{9+x}$ "
- 17.50-18.10 **Dipl.-Chem. Steffen Pütz**  
Institut für Anorganische und Analytische Chemie, Münster  
"Temperature Dependent X-ray and NMR Studies of the Thioborate  $\text{Li}_{6-x}\text{Rb}_x\text{B}_{10}\text{S}_{18}$  ( $x \sim 1$ )"
- 19:00-23:00 Dinner at Café Uferlos near Mensa I at Aasee

**Wednesday 10. September 2003**

- 8:30-10:00      **Invited lecture**
- Prof. Dr. Heiko Lueken**  
Institut für Anorganische Chemie, RWTH Aachen  
"Magnetochemistry"
- 10:00-10:30      Coffee break and poster session
- 10:30-10:50      **Dipl.-Chem. Christian Emden**  
Fachbereich Chemie, Universität Marburg  
"Aluminium and Gallium Hydrazides - Investigations into the Syntheses and Structures of Molecular Precursors for the Formation of Nitrides"
- 10.50-11.10      **Dipl.-Phys. Frank Ostendorf**  
Physikalisches Institut, Universität Münster  
"Adsorbate induced nanostructuring of vicinal surfaces: The Ag-Cu system"
- 11.10.-11.30      **Dipl.-Chem. Heiko Schlieder**  
Institute of Inorganic Chemistry, University Dresden  
"Relationships between phases with Perovskite - structure in the system SrO - CuO - Nb<sub>2</sub>O<sub>5</sub>"
- 11.30-11.50      **Friedrich Karau**  
Department Chemie der Ludwig-Maximilians-Universität München  
"The first high-pressure polymorph of P(NH)N: Synthesis, crystal structure determination from X-Ray-Powder Data and <sup>31</sup>P-MAS NMR Investigation"
- 11.50-12.10      **PhD Thomas Götzfried**  
Festkörperchemie, Institut für Physik, Augsburg  
„Neutron and X-ray Powder Diffraction Studies of the New Hexagonal Perovskites La<sub>1,2</sub>Sr<sub>2,8</sub>MO<sub>7</sub> (M = Ru, Ir)“
- 12:10-12:20      Closing of the Workshop
- 12:20              Lunch at Mensa I I