

Science Day

Austrian-Russian Science Day: Bilateral Meeting on Nanosciences and Nanotechnology

16 October 2006
Russian Culture Center
Brahmsplatz 8
1040 Vienna, Austria

Moderation Christine BUZECZKI
Austrian Federal Ministry of Education, Science and Culture

08:30 Registration and welcome coffee

09:00 Welcome and opening statements

Oleg Y. KSENOVONTOW

Director of the Russian Culture Center

Daniel WESELKA

Austrian Federal Ministry of Education, Science and Culture

09:15 Presentations

- **Nanostructured thin films and coatings strengthened by nanoparticles**

E. A. LEVASHOV

Moscow State Technological University

Institute of Steel and Alloys

- **Inorganic-organic hybrid materials from nanosized building blocks**

Ulrich SCHUBERT

Technical University of Vienna

Institute of Material Chemistry

- **New developments in NT-MDT microscope line**

V. A. BYKOV

NT-MDT Co.

Molecular Devices and Tools for Nano Technology

- **Projection maskless nano-lithography and direct nano-patterning**

Hans LÖSCHNER

IMS Nanofabrication

10:35 Coffee break

11:05 Presentations

- **Technology of carbon nanostructures**

A. Y. VUL

Ioffe Physico-Technical Institute

- **Nanostructured TiBN coatings**

Paul MAYERHOFER

Technical University of Vienna

Department of Physical Metallurgy

- **Nanotechnologies in electronics and physics of nanostructures**

A. A. GORBATSEVICH

Moscow State Institute of Electronic Technology

- **Bulk nanostructured materials and alloys studied by transmission electron microscopy**

Peter KARNTHALER

University of Vienna

Institute of Materials Physics

Science Day

12:25 Lunch break

14:00 Presentations

- **Usage of synchrotron radiation and neutron for investigations and diagnostics of nanomaterials and nanosystems**
V. V. KVARDAKOV
*Russian Research Center
Kurchatov Institute*
- **Nanoengineered multifunctional polyelectrolyte capsules: preparation and prospective applications**
L. A. FEYGIN
*Russian Academy of Sciences
Institute of Crystallography*
- **Application of nanoparticles and thin films in sensors and memories**
Hubert BRÜCKL
*ARC Seibersdorf Research
Nano-System-Technologies*
- **Application of nanoporous catalysts for petrochemical and ecological catalytic processes**
A. S. NOSKOV
Boraskov Institute of Catalysis, Novosibirsk

15:20 Coffee break

15:50 Presentations

- **Polimerization of fullerites C60 and nanotubes under high pressures; structure and properties**
V. D. BLANK
Technological Institute for Superhard and Novel Carbon Materials
- **X-ray instrumentation for nanoanalytics – from benchtop to synchrotron sources**
Peter LAGGNER
*Austrian Academy of Sciences
Institute of Biophysics and Nanosystems Research*
- **Nanosensors for molecules, mixtures and bioanalytes**
Franz L. DICKERT and P. LIEBERZEIT
University of Vienna
- **Nanoanalytical and nano(bio)technological research projects at**
Ille C. GEBESHUBER
*Vienna University of Technology
Institute of General Physics*

17:10 Closing discussion

17:30 Review, summary and outlook

Christine BUZECZKI
Austrian Federal Ministry of Education, Science and Culture
Ralf KÖNIG
*Austrian Research Promotion Agency
Division of European and International Programmes (EIP)*

18:00 End of science day – informal "get together cocktail" at the Russian Culture Center