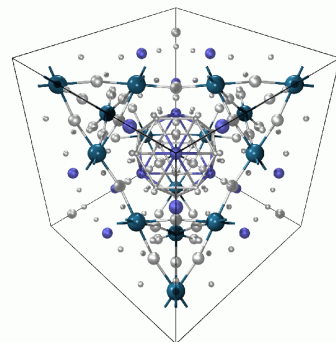




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NANOVED 2013 & NANO INFO DAY



6th International Conference on Nanosciences, Nanotechnologies and Nanomaterials joined with Nano Info Day Svit, Slovakia, September 22 – 25, 2013

Hotel Spolcentrum Svit, Slovakia

Programme

Sunday, September 22, 2013

16:00 - 20:00 Registration

19:00 - 21:00 Welcome and refreshments

Monday, September 23, 2013

08:00 - 09:00 Registration (continued)

Opening ceremony

Chairperson: Martin Budzák, General Director of VUCHV Svit

09:00 - 09:10 **M. Budzák:** Welcome to the participants

09:10 - 10:00 **Inaugural addresses**

**Roman Karlubík, President of the Association of Chemical and
Pharmaceutical Industry of the Slovak Republic**

Michal L'ach, Director of the Board, Chemosvit Folie a. s.

Jaromír Pastorek, President of Slovak Academy of Sciences

Robert Redhammer, Rector of the Slovak Technical University

Lýdia Šuchová, Director of APVV

10:00 - 10:30 Coffee Break
Joint Session 1: Nano Info Day & Nanoved

Chairperson: Peter Švec

- 10:30 - 11:15 A. Gedanken:** AntiBacterial, AntiViral, Anti biofilms and Antifungal Nanoparticles and their Sonochemical Coatings on Surfaces (Textiles and Glas) (invited lecture)
- 11:15 - 12:00 F. Simančík:** Nanostructuring - powerfull tool for tailoring of aluminium properties (invited lecture)

12:30 - 14:00 Lunch Break

Joint Session 2: Nano Info Day & Nanoved

Nanomedicine and Health Risks

Chairperson: Silvia Surová, Secretary General, the Association of Chemical and Pharmaceutical Industry of the Slovak Republic

- 14:00 - 14:20 S. Surová:** NANOFORCE Project
- 14:20 - 14:50 J. Kukutschová:** Nano and microparticles released from brake wear debris and their environmental impact (invited lecture)
- 14:50 - 15:10 A. Gábelová:** The biological activity of magnetite nanoparticles
- 15:10 - 15:30 J. Tulinská:** : Interactions of nanoparticles with the immune system – possibilities of safety assessment
- 15:30 - 15:50 Z. Gažová:** Nanomaterials and amyloid aggregation of proteins
- 15:50 - 16:10 M. Múčková:** Nanoparticles in pharmacy
- 16:10 - 16:30 M. Drličková:** Implementation nanomaterials into REACH (in Slovak)

16:30 - 17:00 Coffee Break

Joint Session 3: Nano Info Day & Nanoved

Nanoparticles - Preparation Methods

Chairperson: Ivo Vávra

- 17:00 - 17:30 N. Tarasenko:** Laser and plasma assisted fabrication and modification of nanoparticles in liquid: (invited lecture)
- 17.30 - 17.50 P. Lobotka:** Preparation of nanoparticles by vacuum deposition on the Ionic liquidsurface
- 17:50 - 18:10 M. Antalík:** Progress in chemical methods of nanomaterials preparation
- 18:10 - 18:30 G. Kratosova:** Biotechnological methods of preparation of nanoparticles

18:30 - 19:30 Poster Session

19:30 - 21:00 Dinner

Tuesday, September 24, 2013

Session 4: Magnetic Nanomaterials – Processing and Properties

Chairperson: P. Lobotka

09:00 - 09:30 R. Varga: Nanocrystalline microwires for spintronic applications (invited lecture)

09:30 - 10:00 I. Škorvánek: Magnetic processing of amorphous and nanocrystalline alloys (invited lecture)

10:00 - 10:40 J. Pištora: Fundamental aspects of magneto-optics (invited lecture)

10:40 - 11:10 Coffee Break

Session 5: Surfaces and Catalysis

Chairperson: J. Kukutschova

11:10 - 11:55 M. Hronec: Nanomaterials in catalysis (invited lecture)

11:55 - 12:40 M. Krajci: Catalytical properties of complex intermetallic surfaces (invited lecture)

12:40 - 14:00 Lunch Break

Session 6: Ceramic Nanocomposites

Chairperson: M. Hronec

14:00 - 14:30 J. Dusza: Silicon nitride + graphene platelets nanocomposites (invited lecture)

14:30 - 14:50 F. Lofaj: Nanocrystalline superhard coatings

14:50 - 15:10 P. Tatarko, M. Kašiarová: Si-N + Si-C nanocomposites

15:10 - 15:30 Z. Lenčéš: Processing and properties of SiC-CNT and Al₂O₃-CNT nanocomposites

15:30 - 16:00 Coffee Break

Session 7: Nano - materials production in RIMMF & Chemosvit excursion

Chairpersons: Michal L'ach, Martin Budzák

16:00 - 19:00 Excursion and company presentation

19:00 - 22:00 Conference Banquet

19:30 Best Young Researcher Contribution Award Ceremony

Wednesday, September 25, 2013

Session 8: Nanocomposites and Nanoparticles

Chairperson: J. Pištora

09:00 - 09:30 A. Michalcová: Preparation of metallic nanoparticles by selective leaching (invited lecture)

09:30 - 10:00 M. Jergel: Formation of nanoparticle arrays by self-assembly (invited lecture)

10:00 - 10:20 T. Kvačkaj: Asymmetric Rolling as SPD Technology

10:20 - 10:50 Coffee Break

Session 9: Nanocomposites – Structure Characterization

Chairperson: T. Kvačkaj

10:50 - 11:20 K. Iždinský: Metal matrix composite materials - structure and interfaces (invited lecture)

11:20 - 11:40 P. Švec: Precession electron diffraction of fine-grained structures

11:40 - 12:00 I. Vávra: TEM characterization of nanocolloids

12:00 - 12:10 Closing remarks

12:30 - 14:00 Lunch

End of the Conference