

## Final Meeting NanoCom

Saarland University

Campus D3.3 – 66123 Saarbrücken, Germany

May 30<sup>th</sup> – 31<sup>st</sup> 2013

### Thursday 30<sup>th</sup>

13:15 hs      **Welcome of the participants - Purpose of the Meeting – Presentation of the Chair for functional materials**  
Frank Mücklich, Flavio Soldera, Saarland University

#### Research activities, scientific results and outlook

#### Metallic materials and composites

##### *Ni-based composites*

14:00 hs      *S. Suarez:* Ni/MWNT bulk composites: microstructure and mechanical properties  
14:30 hs      *N. Souza:* Laser PVD CNTs on bulk metallic substrates

##### *Ag-based composites*

15:00 hs      *F. Miguel:* Fabrication of nanowire-based Ag/SnO<sub>2</sub> electrical contacts  
15:30 hs      **Coffee break**

##### *Al-based composites*

16:00 hs      *C. Gonzalez Oliver:* Al - ceramic fibres and Fe – WC 's MMC  
16:30 hs      *C. Carrasco:* Al-TiB<sub>2</sub> / Al-Al<sub>2</sub>O<sub>3</sub> metal matrix composites  
17:00 hs      *G. Requena:* Phase transformation of a Ti1023 alloy

##### *Hard metals*

17:30 hs      *J. Garcia:* Design and characterization of graded CVD coatings for high speed metal cutting  
18:00 hs      *H. Pinto:* Microstructure and Stress Formation in Nanostructured Hard Surfaces and Coatings  
  
18:30 hs      **End of first meeting day**  
20:00 hs      **Dinner at Restaurant "Stiefel Bräu"**

Friday 31<sup>st</sup>

### Polymeric materials and composites

#### *Hydrogels*

09:00 hs      *M. Molina*: Soft composites: conductives polymers in hydrogel matrix: Sensor of pressure and environmental change based on smart polymeric nanocomposite

#### *Polymer-based composites*

09:30 hs      *C. Barbero*: Synthesis and characterization of conducting polymer and MWNT films for technological applications

10:00 hs      **Coffee break**

### Advanced characterization

10:30 hs      *C. Gonzalez Oliver*: UO<sub>2</sub> glass (Fe-U(Bi) - phosphate glasses matrix

11:00 hs      *F. Comin*: How ESRF can contribute to the activities of NanoCom?

11:30 hs      *G. Requena*: 3D characterization of AlCu alloys

12:00 hs      *J. Balach*: 3D Reconstruction of the Internal Structure of Disordered Porous Carbon Materials

12:30 hs      *O. Prat*: Study of M<sub>23</sub>C<sub>6</sub> with Boron by Atom Probe Tomography and modeling in a 9% Cr-heat resistant steel

13:00 hs      *R. Coelho*: Texture depth profiling by energy-dispersive diffraction

13:30 hs      **Lunch break**

14:00 hs      *F. Soldera*: Summary of NanoCom and concluding remarks

14:30 hs      **End of the meeting**

**Participants of the Meeting**

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