



Nanoparticles from low temperature plasma and their applications 2nd German –Czech workshop

Preliminary schedule

Friday, 23.5.2014

Opening 8.55 – 9.00

- 9.00 - 9.20 **F. Faupel**, “Functional Nanocomposites Prepared by Physical Vapour Deposition”
- 9.20 - 9.40 **T. Strunskus**, “Influence of reactive gas admixtures on transition metal nanoparticles deposition by gas aggregation cluster source”
- 9.40 - 10.00 **O. Polonskyi**, “Highly efficient transition metal nanoparticle generation in the gas phase by reactive pulsed DC magnetron sputtering”
- 10.00 -10.20 **A. M. Ahadi**, “Influence of hollow cathode discharge on metal nanocluster beam”
- 10.20 -10.40 **A. Hinz**, “Investigating Dusty Plasmas by a Novel Particle Collection Concept”

Coffee break 10.40 -11.00

- 11.00 -11.20 **M. Bonitz**, "Towards particle-based simulations of plasma-surface processes"
- 11.20 -11.40 **K. Fujioka**, "Simulation of cluster growth in a plasma"
- 11.40 -12.00 **J.W. Abraham**, "Kinetic Monte Carlo Simulation of Nanocolumn Formation"
- 12.00 -12.20 **A. Marek**, “[Production of nanoclusters in Gas-aggregation sources”

Lunch 12.20 – 13.30

- 13.30 – 13.50 **H. Kersten**, “Non-conventional diagnostic methods of process plasmas used for nanostructures”
- 13.50 – 14.10 **H. Wulff**, “Embedding of Cu clusters in a TiO_x matrix”
- 14.10 – 14.30 **E. von Wahl**, “Feasibility study on polyparylene deposition in a PECVD reactor”
- 14.30 – 14.50 **V. Schneider**, “Optical manipulation of micro-particles in a plasma environment”

Coffee break 14.50- 15.10

- 15.10 - 15.30 **H. Biederman:** „Nanoparticles, nanostructures and nanocomposites prepared by gas aggregation sources”
- 15.30 - 15.50 **O. Kylián,** „From superhydrophilic to superhydrophobic surfaces by plasma polymerization and nanoparticle deposition“
- 15.50 - 16.10 **P. Solař,** „Fabrication of plasma polymerized nanoparticles“
- 16.10 - 16.30 **J. Hanuš,** „Deposition of Cu/hard plasma polymer nanocomposite films”
- 16.30 - 16.50 **A. Shelemin,** “Deposition of nanoparticles in atmospheric pressure plasma”

Coffee break 16.50- 17.10

- 17.10 - 17.30 **S. V. Roth,** "Nanocomposites: in-situ and in-operando studies"
- 17.30 - 17.50 **M. Schwatzkopf,** "Au sputter deposition: experiments and modelling"
- 17.50 - 18.10 **G. Santoro,** "Functional Ag films"

Dinner 19.30 – 22.00

Saturday 24.5.2014

- 9.00 – 9.20 **J. Meichsner,** "Functional Surfaces by Plasma Supported Nanotechnology"
- 9.20 – 9.40 **C. Küllig,** "Gaussian Beam Microwave Interferometry for Diagnostics of CCRF Plasmas"
- 9.40 – 10.00 **T. Wegner,** "Comprehensive Diagnostics of Reactive ICRF Plasmas"
- 10.00- 10.20 **V. Stranak,** “Pulsed systems for improved nanocluster growth and flux”
- 10.20 - 10.40 **Z. Hubicka,** “Pulsed plasma applied for the deposition of thin film structures”

Coffee break 10.40- 11.00

- 11.00 - 11.20 **J. Blažek,** „Charging of clusters in a plasma – models and links between them, algorithms“
- 11.20 - 11.40 **R. Perekrestov,** “Deposition of Ti containing nanoparticles by hollow cathode plasma jet”
- 11.40 - 12.00 **D. Hegeman,** “Controlled release of Ag ions from plasma-deposited Ag nanocomposite films”
- 12.00 - 12.20 **M. Drabik,** „Ag/C:H:O nanocomposite films for sensor applications“
- 12.20 – 12.40 **V. Brüser ,** "Nanostructured gold/titanium dioxide catalysts for light-driven water splitting".

12.40 – 13.00 Discussion – Conclusions

Lunch 13.00 – 14.00

End of the seminar

Optional excursion to our labs in Troja/sightseeings