

Final program

Tuesday 12.9.2017

18:00-20:00 Registration + Welcome drink

Wednesday 13.9.2017

8:15-9:00 Registration

9:00-9:20 Welcome

Chair: K. Makasheva

9:20-10:00 Invited lecture: T. Nishino: Nano² Composites - Cellulose Nanofiber & Nanometal

10:00-10:20 J. Kratochvíl: Antibacterial coatings based on plasma polymers and plasma polymer nanocomposites

10:20-10:40 A. Lelong: Copper in polymer matrix: application for catalytic degradation of dyes

10:40-11:10 Coffee break

11:10-11:30 A. Artemenko: DLC films as material suitable for adhesion of biomolecules from Luria Bertani medium

11:30-11:50 M. Delmée : Combining Laser Ablation in Monomer and Atmospheric Plasma Polymerization: a Convenient Way of Synthesis of Metal Nanoparticles/Plasma Polymer Antibacterial Coatings

11:50-12:10 P. Fojan: Polystyrene Films with TiO_x Nanoparticles as Antibacterial Media

12:10-12:30 B. Mitu: Atmospheric pressure plasma deposition of antibacterial nanocomposites

12:30-14:00 Lunch

Chair: P. Milani

14:00-14:40 Invited lecture: E. Kovacevic: Complex polymers, graphenes and composites

14:40-15:00 M. Mizuhata: Ionic Transport Coupled with Electron Transfer on AuNPs Modified Polyethyleneimine Thin Film

15:00-15:20 D. Muraviev: Donnan-exclusion based synthesis of polymer-metal nanocomposites with enhanced distribution of metal nanoparticles

15:20-15:40 F. Löhner: In-situ investigation of the sputter deposition of gold electrodes for organic electronics

15:40-16:10 Coffee break

16:10-16:30 C. Aktas: Synthesis of 3D porous structures with controlled wetting properties for functional applications

16:30-16:50 P. Pandit: Tuning of complex polymer-metal interfaces via process parameters

16:50-17:10 T. Mates: Nanostructure of DLC layers for tribological applications

17:30-19:30 Concert + tour through historic campus

Thursday 14.9.2017

Chair: F. Faupel

9:00-9:40 **Invited lecture: K. Makasheva: Control of the charge transport in dielectrics by plasma processed nanostructured layers**

9:40-10:00 D.Ruch: Functional nanocomposite coatings by aerosol-assisted atmospheric cold plasma deposition: preparation, characterization and applications

10:00-10:20 P. Milani: Electroactive Soft Actuators with Monolithically Integrated Gold Nanocomposite Electrodes

10:20-10:40 K. Akamatsu: Controlled Synthesis of Bismuth Nanoparticles/Polymer Nanocomposites and their Thermal Properties

10:40-11:10 Coffee break

11:10-11:30 S. Xia: Investigation on printed thermo-responsive polymer films embedded with magnetic nanoparticles

11:30-11:50 D.K. Avasthi: Graphene oxide (GO) based glucose sensors

11:50-12:30 **Invited lecture: F. Fumagalli: Photoelectrode Architectures for Hybrid Organic/Inorganic Photoelectrochemical Water Splitting**

12:30-14:00 Lunch

Chair: E. Kovacevic

14:00-14:20 D. Zimmerman: Tunable plasmonic nanoantenna dimer arrays for energy-harvesting and optical sensing

14:20-14:40 A. Milella: Plasma deposited Nafion-like membranes embedding Pt nanoparticles

14:40-15:20 **Invited lecture: P. Milani: Cluster beam deposition: do we need it?**

15:20-15:40 V. Popok: Ordered Arrays of Metal Nanoparticles Deposited on Polymers from Cluster Beams

15:40-16:10 Coffee break

16:10-16:50 Poster session

17:15-22:00 Conference dinner

Friday 15.9.2017

Chair: T. Nishino

9:00-9:40	Invited lecture: B. Baloukas: Smart optical coatings and nanoparticles for energy saving, anticounterfeiting and more
9:40-10:00	O. Polonskyi: In-situ investigation of metallic nanoparticle growth in a gas aggregation source
10:00-10:20	P. Solař: Investigation of multicore-shell nanoparticles with Ag cores and plasma polymer shell
10:20-10:40	J. Kousal: In-situ characterization of nanoparticles inside gas aggregation cluster source using X-ray diffraction
10:40-11:10	Coffee break
11:10-11:30	A. Shelemin: Nylon-sputtered plasma polymer nanoparticles produced by gas aggregation cluster source
11:30-11:50	A.Vahl: Single target sputter deposition of alloy nanoparticles with adjustable composition via gas aggregation cluster source
11:50-12:10	Closing
13:30-...	Optional lab tour in Troja campus