

FINAL PROGRAM OF 6TH SZEGED INTERNATIONAL WORKSHOP ON ADVANCES IN NANOSCIENCE 2014

Wednesday 15th October				
12:00-14:00	Registration			
14:00-14:20	Opening Ceremony			
14:20-15:20	Keynote Lecture: M. Prato (Italy) — Nanomedicine and Materials Applications of Functionalized Carbon Nanomaterials (K1)			
15:20-16:00	Invited Lecture: P. Ayala (Austria) - Finding the Margin Between Low-and High-Doping In Single-Walled Carbon Nanotubes (I1)			
16:00-16:30	Coffee break			
	Session A		Session B	
16:20-16:40	L.P. Biró (Hungary)	Scanning Probe Microscopy of CVD Graphene and its Crystallographically Controlled Nanopatterning (O02)	V. Kestens (Belgium)	A New Certified Reference Material for Measurement of Equivalent Diameters of a Bimodal Size Distribution of Silica Nanoparticles (O08)
16:40-17:00	Á. Gali (Hungary)	Silicon Carbide Quantum Dots: New Type of Light Emitting Nanostructure (O03)	Y. Chang (Saudi Arabia)	Synthesis and Application of Surfactant Nanoparticles (O09)
17:00-17:20	R.A. Whiter (UK)	Self-Poled Piezoelectric Polymer Nanowires with High Conversion Efficiency for Vibrational Energy Harvesting (O04)	Y. Ikuma (Japan)	Change in Photocatalytic Activity of Rutile TiO ₂ (001) Surface Created by Nano-structural Modification of Surface (O10)
17:20-17:40	L. Kavan (Czech Republic)	Dye-Sensitized Solar Cells: A Case of Nanocrystalline and Graphene (O05)	O. Kojima (Japan)	Thermal Enhancement of Exciton Quantum Beat in a GaAs/AlAs Multiple Quantum Well (O11)
17:40-18:00	M. Zúkalova (Czech Republic)	Electrochemical Analysis of Li Storage in TiO ₂ (B) and TiO ₂ (Anatase) (O06)	X. Liu (China)	Coating with BiVO ₄ Nanoparticles Enhances Visible-light Photocatalytic Activity of the Flower-like Anatase TiO ₂ Exposed with {001} Facet (O12)
18:00-18:20	I. Dékány (Hungary)	Selected applications of plasmonic nanomaterials	A.Y. Ziganshina (Russia)	Synthesis Nanoparticles Using Electroactive Derivatives of Resorcinolamines (O13)
18:20-18:40	E. Csapó (Hungary)	Optical and Fluorescent Properties of Plasmonic Nano Bioconjugates (O07)	A.S. Adekunle (South Africa)	Electrochemical Response and Impedimetric Behaviour of Dopamine and Epinephrine at Platinum Electrode Modified with Gold-CrN Nanocomposite (O14)
19:00-00:00	Welcome Reception and Ice Breaking Party			

Thursday 16th October				
9:00-10:00	Keynote Lecture: R.S. Varma (USA) — Greener Pathways to Nanomaterials and Sustainable Applications of Nanocatalysts with Magnetic Core (K2)			
10:00-10:40	Invited Lecture - W-F. Su (Taiwan) Research in Polymer-Nanoparticle Hybrid Material for Solar Cell and VOC Sensor (I2)			
10:40-11:00	Coffee break			
	Session A		Session B	
11:00-11:20	R. Ras (Finland)	Magnetic Droplets for Exploring Dynamics and Dissipation on Superhydrophobic Surfaces (O15)	V-P. Lehto (Finland)	Smart Drug Delivery with Nanoporous Silicon (O21)
11:20-11:40	E. Tombácz (Hungary)	Interactions at the Bio-Nano Interfaces of Spions (O16)	A. Kiersy (Poland)	Multicomponent Matrix Systems for the Controlled Release of Active Ingredient (O22)
11:40-12:00	S. Crossley (UK)	Modelling for Optimisation of Piezoelectric Polymer Nanogenerators (O17)	C. Gagnon (Canada)	Transformation, Fate and Subsequent Toxicological Effects of Silver Nanoparticles in Aquatic Environments (O23)
12:00-12:20	C. Janáky (Hungary)	The Role of Photoelectrochemistry in the Rational Design of Nanostructured Hybrid Conducting Polymer / Semiconductor Assemblies (O18)	M-O. Mattsson (Austria)	Effects on the Nervous System After Unintended Exposure to Engineered Nanomaterials (O24)
12:20-12:40	X. Huang (China)	Thermoelectric Nanocomposite (O19)	R. Tietze (Germany)	Targeted Drug Delivery Using Magnetic Iron Oxide Nanoparticles (O25)
12:40-13:00	K. Nakane (Japan)	Estimation of Structures Based on the Homology Concept for the Molecular Structure (O20)	M. Simko (Austria)	A "New" Old Dose Concept for Nanoparticles Risk Assessment (O26)
13:00-14:40	Lunch			
14:40-15:40	Keynote Lecture: L.M. Liz-Marzán (Spain) — Directed Self-Assembly of Plasmonic Colloids (K3)			
15:40-16:20	Invited Lecture - E. Vázquez (Spain) Few-layer Graphene from Ball-Milling: Preparation of Hybrid Hydrogels (I3)			
16:20-16:40	Coffee break			
16:40-17:00	K. Kertész (Hungary)	Vapor Sensing Properties of Biological and Bioinspired Photonic Nanomaterials (O27)	R.P. Turcu (Romania)	Magneto-responsive Nanosystems for Targeted Drug Delivery Applications (O31)
17:00-17:20	R. Smajda (Switzerland)	Wearable Biosensors for Monitoring Wound Healing (O28)	Z. Dudás (Hungary)	Methyl Groups as Matrix Modifier in Hybrid Silica Xerogels Synthesized in Acidic Media Using Methyltriethoxysilane and Tetraethoxysilane (O32)
17:20-17:40	H.S. Majumdar (Finland)	Wireless Gas Sensing and Transistor Application of Metal-oxide Thin Films (O29)	R. Muñoz-Espi (Germany)	Controlling the Structure of Polymer/Inorganic Hybrid Nanocapsules Obtained by Colloidal Methods (O33)
17:40-18:00	V. Guzvány (Serbia)	Decorated Multiwalled Carbon Nanotubes as Electrode Modifiers for Determination of Selected Analytes (O30)	Alexandra Mocanu (Romania)	New Design of Antimicrobial Membranes Based on Polymers Colloids/MWCNT Hybrid Materials and Silver Nanoparticles (O34)
18:00-20:00	Poster Section			
20:00-22:00	Conference Dinner (Optional)			

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Friday 17th October			
9:00-10:00	P.M. Ayajan (USA) — Doing Materials Science with Atomic Layers (K4)		
10:00-10:40	Invited Lecture - P. Vilarinho (Portugal) Combination of Carbon Nanotubes (CNTs) with Ferroelectrics (FE) for Future Electronics (I4)		
10:40-11:00	Coffee break		
	Session A		Session B
11:00-11:20	K. Kamarás (Hungary)	Cloaking of Encapsulated Molecules in Carbon Nanotubes at Infrared Frequencies (O35)	I.-S. Yang (South Korea) Effects of High-density Electrical Current on Graphene Microbridges (O42)
11:20-11:40	T. Pichler (Austria)	Charge Transfer, Local Strain and Hybridization in Intercalated 1D and 2D Carbon Nanostructures (O36)	J. Wei (China) 1D and 2D Supercapacitors Using Macroscopic CNTs as Electrodes (O43)
11:40-12:00	H. Shiozawa (Austria)	Electronic and Magnetic Properties of Carbon Nanotubes Encapsulating Nickel Clusters (O37)	P. Vancsó (Hungary) Electronic Transport Through Grain Boundaries in CVD Produced Graphene (O44)
12:00-12:20	R. Vajtai (USA)	Carbon Superstructures (O38)	L. Tapasztó (Hungary) Nanoengineering 2D Materials (O45)
12:20-12:40	K. Kordás (Finland)	Three Dimensional Carbon Nanomaterials (O39)	C.M. Graf (Germany) Multivalent Interactions of Amino Functionalized Silica Nanoparticles with Smooth and Complementary Structured Concave Gold Surfaces (O46)
12:40-13:00	J.-P. Mikkola (Sweden)	Switching to Nano: Switchable Ionic Liquids for Nordic Wood (O40)	B. Boury (France) A Possible Biomimetic Morphosynthesis by Mineralisation of Polysaccharides - A Little of Green in the Synthesis of Metal Oxides (O47)
13:00-13:20	V. Srdic (Serbia)	Thin Films Deposition by Spin Coating and Ink-jet Printing Techniques (O41)	N. Charoenthai (Thailand) Physical Gelation of Conjugated Polymer MEH-PPV in Solutions: Roles of Local Polymer-Solvent Interactions and Molecular Weight (O48)
13:20-15:00	Lunch		
15:00-18:00	Optional Programs: Horseback Archery Show / Guided Walking Tour		

Saturday 18th October			
9:00-10:00	Keynote Lecture: L. Forró (Switzerland) — A Novel, Highly Efficient Material for Photovoltaic Conversion: The CH ₃ NH ₃ PbI ₃ Perovskite (K5)		
10:00-10:40	Invited Lecture - V. Mostepanenko (Russia) Advances and Problems in the Lifshitz Theory of Dispersion Forces (I5)		
10:40-11:00	Coffee break		
11:00-11:20	G. Klimchitskaya (Russia)	Casimir Force in Graphene Systems (O49)	
11:20-11:40	B. Endrödi (Hungary)	Effective Control Over the Thermoelectric Properties of Poly(3-alkylthiophenes) – The Role of Molecular and Supramolecular Features (O50)	
11:40-12:00	Lei Shi (Austria)	SP-Hybridized Carbon Chains Inside Double-Walled Carbon Nanotubes: A Route to Carbyne	
12:00-12:20	T.S. Orlova (Russia)	Microstructure, Elastic and Microplastic Properties of Biomorphic Carbon Nanocomposites (O52)	
12:20-12:40	Closing Ceremony		