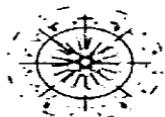


# **14<sup>th</sup> INTERNATIONAL WORKSHOP ON NANOSCIENCE & NANOTECHNOLOGY**

## **ORGANIZERS:**

**The National Coordination Council on Nanotechnology at  
the Bulgarian Academy of Sciences**



**Technical University - Sofia**



**November 22 - 23, 2012  
Technical University - Sofia**

**Sofia, Bulgaria**

**S4800 15.0kV 8.3mm x200k SE(M)**

**200nm**

Topic	E-Bioinspired concepts and medical applications, E1-E10
E1	Hr. Svilenov, Chr. Tzachev, N. Lambov Assessment of lipid nanoparticles as promising drug carriers hsvilenov@gmail.com
E2	S. Stoyanov*, E. Mileva Interfacial and bulk properties of two-antennary oligoglycines <a href="mailto:sstoyanov@ipc.bas.bg">sstoyanov@ipc.bas.bg</a>
E3	V. Milkova, K. Kamburova, Ts. Radeva Stable suspensions of indomethacin nanoparticles prepared using sonication and layer-by-layer assembled polysaccharide films vmilkova@ipc.bas.bg
E4	B. Soklev, D. Arabadzhieva, E. Mileva New interfacial characteristics of aqueous solutions of grafted PNIPAM-g-PEO copolymer and indomethacin in different conditions dimi@ipc.bas.bg
E5	R. Cohen, N. Christova, I. Stoyneva, L. Alexandrova, I. Terziysky Foam and wetting films stabilized with a rhamnolipid biosurfactants iterziyski@ipc.bas.bg
E6	A. Gyurova, S. Stoyanov, E. Mileva Nano-platforms of antennary glycine compounds as captive agents for lipopolysaccharides in aqueous media anya_gyurova@abv.bg
E7	G. Chernev <sup>1</sup> , Y. Evstatieva <sup>2</sup> , D. Nikolova <sup>2</sup> , M. Yordanova <sup>2</sup> , E. Todorova <sup>1</sup> , I. M. Miranda Salvado <sup>3</sup> Structural characterization and application of sol-gel silica nanocomposites in biotechnology <a href="mailto:georgi_chernev@yahoo.com">georgi_chernev@yahoo.com</a>
E8	Stoyanova <sup>1</sup> , N. Ivanova <sup>1</sup> , A. Bachvarova-Nedelcheva <sup>2</sup> , R. Jordanova <sup>2</sup> , H. Hirko <sup>1</sup> , M. Sredkova <sup>1</sup> Effect of synthesis conditions on photocatalytic activity of TiO <sub>2</sub> nanoparticles prepared by nonhydrolytic method <a href="mailto:astoy@abv.bg">astoy@abv.bg</a>
E9	M. Vassileva, M. Popova, K. Yoncheva, V. Mavrodinova, A. Szegedi, N. Tusař Development of different methods for resveratrol loading into mesoporous silica particles <a href="mailto:mishell88@abv.bg">mishell88@abv.bg</a>
E10	Elena Drakalska, Svetlana Vassileva, Denitsa Momekova, Desislava Budurova, Nikolay Lambov, Stanislav Rangelov Design of octopus-shaped macromolecules based on tert-butylcalix[4]arenes as drug delivery platforms for curcumin <a href="mailto:dmomekova@yahoo.com">dmomekova@yahoo.com</a>

Topic	F-Micro and nanoengineering, Nanometrology, F1-F9
F1	B. Aprahamian, M. Nikolova, V. Zaharieva, A. Gayardziev Influence of the nanostructured multilayered architecture on the mechanical properties of TiN-type coatings <a href="mailto:bohos@abv.bg">bohos@abv.bg</a>
F2	B. Aprahamian, M. Nikolova, V. Zaharieva, A. Gayardziev Multilayered nanostructured PVD coatings deposited on electrical contacts – structure and properties <a href="mailto:bohos@abv.bg">bohos@abv.bg</a>
F3	E. Gieva, R. Rusev, G. Angelov, R. Radonov, M. Hristov, T. Takov Proteins application in electronics <a href="mailto:gieva@ecad.tu-sofia.bg">gieva@ecad.tu-sofia.bg</a>
F4	M. Spasova, G. Angelov, M. Hristov Overview of carbon nanotube field-effect transistors <a href="mailto:mls@ecad.tu-sofia.bg">mls@ecad.tu-sofia.bg</a>
F5	V. Videkov, B. Tzaneva Optical properties of free nano porous oxide membranes <a href="mailto:videkov@u-sofia.bg">videkov@u-sofia.bg</a>
F6	G.Hr. Dobrikov, M. Aleksandrova, G. M. Dobrikov Thermally activated current for defect analysis in electroluminescent devices based on new synthesized low-molecular weight compound <a href="mailto:georgy_ddobrikov@abv.bg">georgy_ddobrikov@abv.bg</a>
F7	A. Andonova Thermal heat transfer challenge to reliability in 3D integration technologies <a href="mailto:ava@ecad.tu-sofia.bg">ava@ecad.tu-sofia.bg</a>
F8	Rossen Radonov CADENCE as a Nanotechnology Tool <a href="mailto:Rossen.Radonov@ecad.tu-sofia.bg">Rossen.Radonov@ecad.tu-sofia.bg</a>
F9	Plamen Tachev, Serioja Valkanov, Peter Petrov, Emilia Balabanova Microstructure of gas metal arc welded carbon steel with nanoparticles <a href="mailto:ebalabanova@gmail.com">ebalabanova@gmail.com</a>