

4th International Conference on Surfaces, Coatings and Nanostructured Materials - NANOSMAT
19-22 October 2009, Rome, ITALY

Time **19 October 2009**

09.00 - 21:00

REGISTRATION

09:00 - 21:00

SHORT COURSES:

- 1) Electron Microscopy: challenges and opportunities for nanomaterials research
- 2) Applications of Nanoparticles in Biology and Medicine
- 3) MEMS, NEMS Biosensors & Nanoholes and their Applications for Pathogen and Biomarker Detection

Time

20 October 2009

08:00 -

REGISTRATION

09:00 - 09:15

WELCOME ADDRESS

Dr Nasar Ali (*chair*), CNC Coatings, UK

Dr Riccardo Polini (*co-chair*), University of Rome Tor Vergata, Italy

09:15 - 10:00

PLENARY SESSION (Main Auditorium)

Chairperson(s): Professor Don Haynie (USA); **Dr N. Ali** (UK)

1) Professor Lajos P. Balogh, Roswell Park Cancer Institute, USA
"Nanomedicine - Quo Vadis?"

10:00 – 10:45

2) Professor Werner Blau, Trinity College, Dublin, Ireland
"Carbon Nanotube Photonics"

10:45 – 11:15

Refreshment break

11:45 – 12:00

3) Professor Jeff De Hosson, University of Groningen, Netherlands
"Deformations in nanosized systems"

12:00 – 13:00

LUNCH

Time	SBN: Thin films Chairperson: A. K. Jadoon (UK)	Time	CNM: Carbon Nanotubes Chairperson: S. Mitura (Poland)
13:00 - 13:30	Invited: Professor Plinio Innocenzi , University of Sassari, Italy "Deep X-ray lithography for mesoporous thin films: integration of bottom-up and top-down nanotechnologies"	13:00 - 13:30	Invited: Dr. Juana L. Gervasoni , Balseiro Institute and Bariloche Atomic Centre, Argentina "Excitation of plasmons in Graphene and Carbon nanotubes"
13:30 - 13:45	NS149: Rostislav DANIEL , University of Leoben, Austria "The Origin of Stresses in Magnetron Sputtered Thin Films: Structure-Stress Relation"	13:30 - 13:45	NS70: David Garrett , University of Canterbury, New Zealand "Enhanced electron transfer from Proteus Vulgaris using nanostructured carbon and carbon nanotube electrodes"
13:45 - 14:00	NS160: Sergey Vladimirovich Egorov , Institute of Solid State Physics RAS, Russia "Structure and magnetic properties of nanostructured PdFe thin films produced by pulse electrodeposition"	13:45 - 14:00	NS97: Luca Minati , FBK, Italy "Synthesis and characterization of Multi-Walled Carbon Nanotubes/Gold Nanoparticles Hybrids"
14:00 - 14:15	NS233: Mário Rui Pereira , Universidade do Minho, Portugal "Barium titanate thin films deposited by electrophoresis on p-doped Si(001) substrates"	14:00 - 14:15	NS137: Julija Razumiene , Institute of Biochemistry, Lithuania "Carbon Nanotube Electrode and Enzyme Matrix Based Composite Biosensor"
14:15 - 14:30	NS57: Chulho Jung , Sungkyunkwan University, Korea "Interface effect of heat treatment on amorphous InGaZnO4 thin film transistor as a function of oxygen flow rate"	14:15 - 14:30	NS196: Noboru Akuzawa , Tokyo National College of Technology, Japan "Hydrogen Sorption by Alkali Metal-doped MWCNT"
14:30 - 14:45	NS60: Dongmyung Shin , University of Oxford, UK "Thin Film Growth of p-type Cuprous Oxide by Oxygen Plasma-Assisted MBE"	14:30 - 14:45	NS344: Mahboubeh Tasviri , Sharif University of Technology, Iran "Functionalized TiO2 coated carbon nanotube for establishment of glucose oxidase electron transferring"
14:45 - 15:00	NS90: Dominic Diechle , Forschungszentrum Karlsruhe GmbH, Germany "Development of α -(Al _x Cr _{1-x}) ₂ O ₃ solid solution strengthened thin films by reactive magnetron sputtering"	14:45 - 15:00	NS347: Shams Mohajerzadeh , University of Tehran, Iran "A self-defined hollow needle formation on Silicon membranes with the aids of carbon nanotubes"

15:00 - 15:15	NS155: Bulent Tepe , University of Ulster, UK "Environmentally Friendly Zr Based Nano Structured Conversion Coating for HRS (Hot Rolled Steel) in Powder Coating"	15:00 - 15:15	NS398: Pimjai Saengkwamsawang , Khon Kaen University, Thailand "Fabrication and Characterization of Carbon Nanotubes (CNTs) Reinforced Nylon 6 Composite Filaments"
15:15 – 15:35	Refreshment break		

20 October 2009

Time		NMB: Biotechnology and Nanomedicine Chairperson: D. Haynie (USA)	
13:00 - 13:30	Invited: Professor Andrei Stanishevsky , University of Alabama at Birmingham, USA "Nanostructured Carbon Beads – Properties and Biomedical Applications"		
13:30 - 13:45	NS45: Roberto Scandurra , Sapienza Università di Roma, Italy "Surface analysis and osteoblasts response of a titanium oxo-carbide film deposited on titanium by Ion Plating Plasma Assisted (IPPA)"		
13:45 - 14:00	NS59: Manasi Jain , McGill University, Canada "Probing and preventing QD-induced cytotoxicity with multi-modal lipoic acid in multiple dimensions of the peripheral nervous system"		
14:00 - 14:15	NS71: Ewa Sawosz , University of Life Science, Poland "Visualisation of bio-interaction between noble metals' nanoparticles and bacteria Salmonella Enteritidis (G-) and Listeria monocytogenes (G+)"		
14:15 - 14:30	NS78: Ram P. Gandhiraman , Dublin City University, Ireland "Amine functionalisation of biosensor surfaces by plasma polymerization"		
14:30 - 14:45	NS88: Ana Paula Serro , CQE, Instituto Superior Técnico, Portugal "Titanium nitrides coatings for biomedical applications: a comparative study"		
14:45 - 15:00	NS131: Cristina Balagna , DISMIC-Politecnico di Torino, Italy "Ta-based thin film coatings for wear resistant arthroprostheses"		
15:00 - 15:15	NS142: Vladimir Gubala , Dublin City University, Ireland "Labelling of biomolecules with near-infrared dye doped silica nanoparticles: improved protocol using multivalent linkers"		
15:15 – 15:35	Refreshment break		

Time	NET: Solar Cells Chairperson: V. Teixeira (Portugal)	Time	CNM: Diamond, Diamond-Like and other Carbon Materials Chairperson: S. Mitura (Poland)
15:35 - 15:50	NS50: Rachel A. Caruso , The University of Melbourne, Australia "Monodisperse Titanium Dioxide Spheres Containing Mesopores for Dye-Sensitized Solar Cell Applications"	15:35 - 16:00	Invited: Prof. Murli H. Manghnani , University of Hawaii, USA "Elastic Properties of Diamond-Like Carbon Thin Films by Surface Brillouin Scattering, Laser SAW-Technique, and Atomic Force Acoustic Microscopy: A Comparative Study"
15:50 - 16:05	NS103: Christophe DEFRANOUX , SOPRALAB, France "Characterisation of organic solar cells materials and structures by spectroscopic ellipsometric"	16:00 - 16:15	NS369: Anna Karczewska , Technical University of Lodz, Poland "Submicron diamonds and nanodiamonds in meteorite"
16:05 - 16:20	NS250: Iván Cabria , Uni. of Valladolid, Spain "Optimal Pore Shape and Size of Nanoporous Carbons for Hydrogen Storage Applications"	16:15 - 16:30	NS207: K. Mitura , Technical University of Lodz, Poland "The influence of nanodiamond particles on rat health status"
16:20 - 16:35	NS289: M. M. D. Ramos , University of Minho, Portugal "The Influence of Polymer Nanomorphology on the Optoelectronic Properties of Organic Photovoltaic Solar Cells"	16:30 - 16:45	NS102: Maria G. Ganchenkova , Helsinki University of Technology, Finland "Quasi-Graphite Phase : Structure, Properties, Synthesis"
16:35 - 16:50	NS14: P.S. Pa , National Taipei University of Education, Taiwan "Optical Assistance in Thin Films Removal from Solar-Cells Silicon-Wafers Surface"	16:45 - 17:00	NS245: Carla Verissimo , University of Campinas-UNICAMP, Brazil "Preparation and characterization of chemically oxidized and reduced graphene layers: deposition over metal electrodes aiming devices fabrication"
17:00 – 20:00	WELCOME RECEPTION cum POSTER DISPLAYS		

20 October 2009

Time	NMB: Biotechnology and Nanomedicine Chairperson: D. Haynie (USA)
15:35 - 15:50	NS234: Alexis Vallée-Bélisle , University of California, USA "Sensing the molecular world in real time using electronic biomolecular switches"
15:50 - 16:05	NS243: Katarzyna Mitura , Technical University of Lodz, Poland "Nanoparticles of diamond do not stimulate angiogenesis in chicken embryo model"
16:05 - 16:20	NS261: H. S. Jung , Kookmin University, Korea "Effect of synthetic route on morphology and biocompatibility of hydroxyapatite"
16:20 - 16:35	NS268: Marta Suárez , Universidad de Oviedo, Spain "Synthesis and antimicrobial effects of silver-diatomea nanocomposite"
16:35 - 16:50	NS06: Stefano Leporatti , University of Salento, Italy "Halloysite Clay Nanotubes: Characterization and Biocompatibility Study"
17:00 - 20:00	WELCOME RECEPTION cum POSTER DISPLAYS

21 October 2009

Time	21-Oct-09
08:30 – 09:00	INVITED SESSION Chairperson(s): Professor Andrei Stanishevsky (USA) 1) Professor Stanislaw Mitura , Technical University of Lodz, Poland "Carbon for medicine"
09:00 - 09:30	2) Professor Vasco Teixeira , University of Minho, Portugal "Nanoscale thin films architectures for advanced energy technologies"
09:30 - 09:50	Refreshment break

SBN: Tribology and Lubrication		CNM: Carbon & Related Materials	
Time	Science Chairperson: R. Polini (Italy)	Time	Chairperson: S. Mitura (Poland)
09:50 - 10:05	NS07: Ping Zhang , Technical University of Brandenburg at Cottbus, Germany "Morphologically Designed Oxidation-resistant Ti-Al Coatings Deposited on the Al ₂ O ₃ Substrate"	09:50 - 10:05	NS342: Richard CLERGEREAUX , Université de Toulouse, France "Carbon-Carbon Nanocomposite thin films formed in ECR plasma"
10:05 - 10:20	NS31: Mohammad Reza Malayeri , University of Stuttgart, Germany "Fouling of Nano-modified Surfaces"	10:05 - 10:20	NS77: Horst Kisch , University Erlangen-Nürnberg, Germany "Visible Light Photocatalysis at Carbon Modified Titania Nanocrystals"
10:20 - 10:35	NS79: Muhammad Boota , Fraunhofer-Institut für Schicht- und Oberflächentechnik IST, Germany "Coatings for standard cutting tools and advanced cutting tools for the machining of Titanium, Cobalt and Nickel based super alloys"	10:20 - 10:35	NS84: Emmanuel Nolot , CEA, LETI, MINATEC, France "X-ray reflectometry and variable-angle spectroscopic ellipsometry characterization of hydrogenated amorphous carbon films"
10:35 - 10:50	NS112: Akira Kobayashi , Osaka University, Japan "Microstructure and Thermal Behaviour of Plasma Sprayed Zirconia/Alumina Composite Coating"	10:35 - 10:50	NS205: Ignacio Jimenez , Instituto de Ciencia de Materiales de Madrid, CSIC, Spain "Structure and tribomechanical properties of BC _x thin films and B/C multilayers"
10:50 - 11:05	NS152: Pedro Alberto Poza Gómez , Universidad Rey Juan Carlos, Spain "Improving Thermal Barrier Coatings by Laser Remelting"	10:50 - 11:05	NS56: Vadim Frolov , A.M. Prokhorov General Physics Institute, Russia "SPM processing of nanocone arrays on the base of carbon-silicon films"
11:05 - 11:20	NS290: Imtiaz Ahmed Ansari , University of Liverpool, UK "Surface Modification of Anodised Aluminium Using a Femtosecond Laser"	11:05 - 11:20	NS332: Mineo Hiramatsu , Meijo University, Japan "Preparation of Dispersed Pt Nanoparticles on Carbon Nanostructure Surface by Metal Organic Chemical Fluid Deposition Employing Supercritical Carbon Dioxide"
11:20 - 11:35	NS272: Simone Vezzù , Associazione CIVEN, Italy "CrAlN:Y coatings to protect tool steel components at high temperature"	11:20 - 11:35	NS331: Kestutis Grigoras , Helsinki University of Technology, Finland "Atomic layer deposition of thin aluminum oxide films for carbon nanotube based transistors"
11:35 - 11:50	NS307: S. Theiß Mara Ewering , RWTH Aachen University, Germany "Nano Structured PVD Coatings by means of ps Lasering"	11:35 - 11:50	NS266: Jan Dusza , Slovak Academy of Sciences, Slovakia "Characterization of Carbon Nanofibers by SEM, TEM, ESCA and Raman Spectroscopy"

11:50 - 12:05	NS47: Adelina Borruto , Università Di Roma " La Sapienza", Italy "An efficient lubrication condition based on the difference of material wettability"	11:50 - 12:05	NS291: Abolfazl Tehranian , Islamic Azad University, Iran "Balaban index of some nanotubes by Gap program"
12:00 – 13:00	LUNCH		

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Time		NMB: Biotechnology and Nanomedicine Chairperson: D. Haynie (USA)	
09:50 - 10:05	NS354: Giuseppina Simone , Massachusetts Institute of Technology, USA "Immobilization of carbohydrate conjugated beads for studying carbohydrate-cell interactions"		
10:05 - 10:20	NS189: Miriam Miranda , Universidad de Oviedo, Spain "Synthesis and antimicrobial study of silver-hydroxyapatite nanocomposites"		
10:20 - 10:35	NS301: Ju Dongying , Saitama Institute of Technology, Japan "Drug Delivery Observation of Hydrophobe Ferrofluid and Magnetite Nanoparticles by SPring-8 Synchrotron Radiation"		
10:35 - 10:50	NS312: Giovanni Longo , CNR, Italy "Modification of titanium implants for improved osseointegration"		
10:50 - 11:05	NS315: Olivier Cayre , University of Leeds, UK "Incorporation of Block Copolymer Micelles within Multilayer Films for Use as Nano-Delivery Systems"		
11:05 - 11:20	NS336: Tadeusz Wierzchoń , Warsaw University of Technology, Poland "Microstructure and biocompatibility of titanium oxides produced on nitrated surface layer under glow discharge conditions"		
11:20 - 11:35	NS178: A. Farouk , Taif University, Saudi Arabia "Development of Molecular Biosensors and Their Applications in Meat Quality Assurance"		
11:35 - 11:50	NS355: Kazuo Umemura , Tokyo University of Science, Japan "Injection of platinum into living diatom cells for functionalization of frustules"		
11:50 - 12:05	NS363: Holger Pfaff , Agilent Technologies, USA "Mechanical Testing of Biomedical Materials with a Nanoindenter"		
12:00 – 13:00	LUNCH		

SBN: Nanocatalysis & Catalytic Processes Chairperson: G. Fierro (Italy)		SBN: Surface Science & Technology Chairperson: J. Ebothe (France)	
Time		Time	
13:00 - 13:30	NS146: Giuseppe Fierro , Istituto CNR dei Sistemi Complessi, Italy "Evidence of nanostructured iron species in [Fe]-S-1 and [Fe]-ZSM-5 catalysts"	13:00 - 13:15	NS238: Jean Ebothe , Université de Reims, France "Effects of deposition substrate on the surface morphology and magnetic characteristics of nanostructured nickel electrodeposits"
13:30 - 13:45	NS345: Martin Schmal , Federal University of Rio de Janeiro, Brazil "Monodispersed and Nanostructured Ni/SiO ₂ catalyst derived from NiB/SiO ₂ Precursor"	13:15 - 13:30	NS08: Qimin Wang , Technical University of Brandenburg at Cottbus, Germany "Oxidation behaviour of Ti ₂ AlN film composed mainly of MAX phase"
13:45 - 14:00	NS55: Shane Murphy , Technical University of Denmark, Denmark "Correlating the morphology and CO desorption behaviour of mass-selected ruthenium nanoparticles on HOPG"	13:30 - 13:45	NS19: Han Gao , 3 Research Link, Singapore "Template assisted atomic layer deposition of titania nanotube arrays on substrates"
14:00 - 14:15	NS141: Cheng Yan , Chiba University, Japan "A novel flexible nanoporous Cu-MOF and its CO ₂ adsorption property"	13:45 - 14:00	NS43: Veronica Valentini , Istituto dei Sistemi Complessi (ISC)-CNR, Italy "Organic Base Catalyzed Air Oxidation of Meso-Porous Silicon"
14:15 - 14:30	NS399: Ekaphan Swatsitang , Khon Kaen University, Thailand "Synthesis and Structure Analysis of La _{0.5} Sr _{0.5} TiO ₃ Nanoparticles Prepared by Thermal Decomposition Method"	14:00 - 14:15	NS49: Y.P. Huang , Fengchia University, Taiwan "After glow Thermoluminescence In Surface Engineering Application"
14:30 - 14:45	NS405: Ali SINAĞ , Ankara University, Turkey "Hydrothermal Synthesis of Nano SnO ₂ Particles and Evaluation of Their Photocatalytic Activity"	14:15 - 14:30	NS52: Bella A.Greenberg , Institute of Metal Physics, Ural Branch RAS, Russia "Nanostructure of Vortex during Explosion Welding"
14:45 - 15:00	NS14: Leigh-Anne Thomas , University of Bath, UK "Multilayered Acoustic Devices using Spatially Modulated Nanoporous Silicon"	14:45 - 15:00	NS82: Monica Periolatto , Politecnico di Torino, Italy "Ultraviolet Curing for Surface Modification of Textile Fabrics"
15:00 - 15:15	NS215: Priscila Anadão , University of São Paulo, Brazil "Influence of the clay content on polysulfone-sodium bentonite nanocomposite membranes properties"	15:00 - 15:15	NS100: Alexander Chizhik , Universidad del Pais Vasco, Spain "Surface Magnetic Properties and Nanocrystallization in Ferromagnetic Ribbons and Microwires"
15:00 - 15:30	Refreshment break		

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NMB: Biotechnology and Nanomedicine Chairperson: D. Haynie (USA)	
13:00 - 13:30	Invited: Don Haynie , University of South Florida, USA "Polypeptide Multilayer Nanofilms: In vitro Biomedical Applications"
13:30 - 13:45	NS379: Ryan White , University of California, USA "Reengineering aptamers for use in electrochemical, aptamer-based biosensors"
13:45 - 14:00	NS406: Arzum Erdem , Ege University, Turkey "Nanomaterial based electrochemical sensors for monitoring of biorecognitions"
14:00 - 14:15	NS179: A. Farouk , Taif University, Saudi Arabia "Novel Bacterial Phytate-degrading Enzymes: Future Applications in Nanobiotechnology"
14:15 - 14:30	NS181: Angkhana Jaroenworoluck , National Metal and Materials Technology Center, Thailand "TEM investigation and characterization of bioactive hydroxyapatite nanoparticles doped with silica"
14:30 - 14:45	NS400: Jutharatana Klinkaewnarong , Khon Kaen University, Thailand "Synthesis and Characterization of High Purity Hydroxyapatite Nanorods by Hydrothermal Technique"
14:45 - 15:00	NS51: Sandra Barriuso Gómez , National Institute of Health "Carlos III", Spain "INFONANOSAFE: Showing the potential of Nanoinformatics through a Nanosafety Information Reference Website"
15:00 - 15:15	NS58: Muhammad Imran , Institut National Polytechnique de Lorraine (INPL), France "Potential use of microfluidization for vectorization of nisin in nanoliposome: A novel template for active agent/drug nanoencapsulation"
15:00 – 15:30	Refreshment break

Time	NET: Energy Materials Chairperson: V. Teixeira (Portugal)	Time	SBN: Fabrication and Characterisation Technologies Chairperson: J. Hosson (Netherlands)
15:30 - 16:00	Invited: Professor Bin Zhu , Royal Institute of Technology (KTH), Sweden "Nanocomposites for advanced fuel cell technology"	15:30 - 15:45	NS25: S. Supothina , National Metal and Materials Technology Center, Thailand "Selected-Control Hydrothermal Synthesis of Hexagonal Tungsten Oxide Nanowires"
16:00 - 16:15	NS81: Wan-Yu Wu , National University of Tainan, Taiwan "Pt-containing hydrogenated amorphous carbon coatings for use as high temperature selective solar absorbers"	15:45 - 16:00	NS124: Deligkiozi Ioanna , National Technical University of Athens, Greece "Synthesis and characterization of some new [2] rotaxanes of α -cyclodextrine with diazobenzene containing linear fragments, and their optoelectronic properties"
16:15 - 16:30	NS156: Mahfujur Rahman , UCD, Dublin, Ireland "Development of visible-light-active TiO ₂ nano-thick coatings for the application of Hydrogen production by hotoelectrochemical water splitting"	16:00 - 16:15	NS143: Leigh-Anne Thomas , University of Bath, UK "Multilayered Acoustic Devices using Spatially Modulated Nanoporous Silicon"
16:30 - 16:45	NS123: Alessandra Carbone , CNR Institute for Advanced Energy Technologies "Nicola Giordano", Italy "Nafion [®] electro-spun reinforced membranes for PEFC"	16:15 - 16:30	NS198: Alessandra Sutti , Deakin University, Australia "One-step, High Throughput Method to Produce Short by Polymeric Nanofibres by Solution Dispersion in Shear Flow"
16:45 - 17:00	NS287: Leonardo Giorgi , ENEA Casaccia Research Center, Italy "Sputter Deposition of Pt-Au Nanoclusters for Direct Methanol Fuel Cell"	16:30 - 16:45	NS199: Dr Tong Lin , Deakin University, Australia "Temperature Responsive Hydrogel Nanofibres from POSS-containing PNiPAAm"
17:00 - 17:15	NS288: E. Salernitano , ENEA Casaccia Research Center, Italy "Platinum/Carbon Nanofibers Nanocomposite Synthesized by PECVD and Eletrochemical Deposition as Electrocatalyst for Methanol Oxidation"	16:45 - 17:00	NS256: Marco Sebastiani , University of Rome "ROMA TRE", Italy "Residual stress measurement at the micrometre scale: focused ion beam (FIB) milling and nanoindentation testing"
		17:00 - 17:15	NS10: Michael Burke , North Dakota State College of Science, USA "Creating Nanotechnicians for the 21st Century Workplace"
17:15 – 19:00	Posters display session		
20:00	Conference banquet		

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Time	SBN: Surface Science & Technology
15:30 - 15:45	NS120: Mustafa Fatih Genisel , Bilkent University, Turkey "A Study on the Chemical Environment of B-C-N Films"
15:45 - 16:00	NS135: Manuela Mura , King's College, London, UK "The role of dispersion interactions on self assembly of flat molecules on metallic substrate"
16:00 - 16:15	NS263: Jessica Rodríguez Fernández , Ludwig-Maximilians-Universität München, Germany "Embedding gold nanorods in thermoresponsive microgels for optothermally-driven applications"
16:15 - 16:30	NS320: C.E. Pastore , Universidad de Cádiz, Spain "Influence of In content on defects and spinodal decomposition in In _x Ga _{1-x} P layers grown on Ge substrates"
16:30 - 16:45	NS338: Piotr Jedrasik , Chalmers University of Technology, Sweden "Nanoengineering of highly ordered three-dimensional polyaniline nanoarchitectures"
16:45 - 17:00	NS350: Jin Soo Kim , Chonbuk National University, Korea "Carrier Repopulation Process for the Seven-stacked InAs/InAlGaAs Quantum Dots"
17:00 - 17:15	NS397: Prasit Thongbai , Khon Kaen University, Thailand "Effect of Nanocrystalline Film Existing on Surface of (Li, Ti)-doped NiO Ceramics on Their Dielectric Properties"
17:15 – 19:00	Posters display session
20:00	Conference banquet

Time		INVITED SESSION
08:30 - 09:00	Chairperson(s): Professor J. De-Hosson (Netherlands) & Dr R. Polini (Italy) 1) Dr Sastry Cheruvu , Southwest Research Institute, San Antonio, USA "Nanocrystalline coatings for ultra supercritical boiler and turbine components"	
09:00 - 09:30	2) Dr Ronghua Wei , Southwest Research Institute, USA "Long Term Effect of Nitride Barrier Layers on Inward Al Diffusion of MCrAl Nanocoatings at Temperatures up to 1010 °C"	
09:30 - 10:00	3) Dr Moritz Graf zu Eulenburg , Coatema Coating Machinery GmbH, Germany "Nanocoating close to the market"	
10:00 - 10:30	4) Professor K. Pourrezaei , Drexel University, USA "Rapid Application & Commercialisation of nanotechnology to stimulate economic growth"	
10:30 - 11:00	Refreshments	

Time	SBN: Nanocomposites Chairperson: N. Ali (UK)	Time	SBN: Thin Films & Surface Coatings: Fundamentals and Applications Chairperson: J. Ebothe (France)
11:00 - 11:15	NS339: Beatriz Mendoza , University of Oxford, UK "A scalable spray deposition technique for the fabrication of nanocomposite supercapacitor electrodes"	11:00 - 11:15	NS154: Markus Bruehl , RWTH Aachen University, Germany "Electromagnetic Properties of Novel Thermal Sprayed NiZn-Ferrite Coatings for Electromagnetic Applications"
11:15 - 11:30	NS232: Min Young Cho , Inje University, Korea "Surface Morphology Change of ZnO Epitaxial Layers Grown on Growth Interrupted ZnO Double Buffer Layers and Its Optical Properties"	11:15 - 11:30	NS157: Amidou Dembele , University College Dublin, Ireland "Deposition of hybrid organic-inorganic composite coatings using atmospheric plasma jet technique"
11:30 - 11:45	NS285: F. Lofaj , Institute of Materials Research of the Slovak Academy of Sciences, Slovakia "Structure vs. mechanical properties of the W-C based PECVD nanocomposite coatings"	11:30 - 11:45	NS305: Ju Dongying , Saitama Institute of Technology, Japan "Study on Micro-structure and Morphological Evolution of Fe/Pt Nano-Magnetic Film"

11:45 - 12:00	NS310: Fady El Haber , University of Nantes, France "Synthesis and characterization of LaF3 and LaPO4 nanoparticles dispersed in poly (methyl methacrylate) for transparent nanocomposites Structure and Optical Studies"	11:45 - 12:00	NS251: Fernanda Roberta Marciano , Instituto Nacional de Pesquisas Espaciais, Brazil "Improvement of diamond-like carbon electrochemical corrosion resistance by addition of nanocrystalline diamond"
12:00 - 12:15	NS96: Simona Torrenco , University of Trento, Italy "Surface Functionalization of Nanocrystalline Hydrogenated Diamond by Pure Ammonia Gas"	12:00 - 12:15	NS236: V.E. Pukha , National Technical University (Kh.P.I), Ukraine "Structure and Properties of the Nanocarbon Films Deposited from Accelerated Ion C60"
12:15 – 13:30	Lunch		

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Time		SBN: Surface Science & Engineering	
11:00 - 11:15	NS265: Feng Tian , University of Cambridge, UK "Site-selective Noncovalent Immobilization of Colloids on Surfaces via Specific Supramolecular Interactions"		
11:15 - 11:30	NS09: Nithi Atthi , National Electronics and Computer Technology Center, Thailand "An Effect of Silicon Micro-Patterning Arrays on Superhydrophobic Surface"		
11:30 - 11:45	NS145: Luigi Russo , Istituto per la Microelettronica e Microsistemi-CNR, Italy "A mechanochemical approach to silicon nanoparticles fabrication"		
11:45 - 12:00	NS404: Touaiti Farid , Åbo Akademi University, Finland "Interfacial pinning of polymer chains in porous pigment coatings"		
12:00 - 12:15	NS48: Davide Sangiovanni , Linköping University, Sweden "A Family of High Strength Ternary Titanium and Vanadium Nitride Thin Films"		
12:15 – 13:30	Lunch		

Time		CNM: Nanoparticles, Nanostructures & Nanofabrication Chairperson: N. Ali (UK)	SBN: Nano-Fabrication and Nano-Characterisation
13:30 - 13:45	NS204: Paula Louro Antunes , ISEL, Portugal "Optical processing devices based on multilayered a-SiC:H p-i-n structures for short range optical communications"	13:30 - 13:45	NS104: Christophe DEFRANOUX , SOPRALAB, France "Ellipsometric Porosimetry : Fast and Non Destructive Characterization Method of Porous Thin Films like DSSC"
13:45 - 14:00	NS95: Rogerio Anacleto Cordeiro Colaco , Instituto Superior Técnico, Portugal "Sb nanoparticle manipulation on c:Si <100> substrates"	13:45 - 14:00	NS258: B.Galiana , Instituto de Ciencia de Materiales de Madrid, Spain "Analysis of GaInP defects formed on Ge by C-AFM"
14:00 - 14:15	NS328: Gamze Gül Avci , TÜBİTAK Marmara Research Center, Turkey "Synthesis of ZnO Flowers by Hydrothermal Method"	14:00 - 14:15	NS370: Burchhart Thomas , Vienna University of Technology, Austria "Fabrication and electrical characterization of Ge Nanowires with atomic scale aligned copper-germanide contacts"
14:15 - 14:30	NS341: Daisuke Hojo , Tohoku University, Japan "Mass analysis of Growth at initiation and linear regime during Atomic layer deposition on three-dimensional tortuous structures"	14:15 - 14:30	NS280: Ilaria Cacciotti , University of Rome "Tor Vergata", Italy "Rare earth-doped TiO ₂ nanosized fibers by means of electrospinning technique"
14:30 - 14:45	NS107: Cheul-Ro Lee , Chonbuk National University, Korea "Growth of InN nanowires using In + Au and In droplets on Si(111) substrate by MOCVD"	14:30 - 14:45	NS114: Y.T. Yu , Chonbuk National University, Korea "Fabrication of flower-like ZnO nanostructure by two step hydrothermal process and their photoluminescence properties"
14:45 – 16:00	REFRESHMENTS & "CLOSING REMARKS"		

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Time NMB: Biotechnology and Nanomedicine Chairperson: D. Haynie (USA)	
13:30 - 13:45	NS340: Manuela Vieira , ISEL, Portugal "Detection of change in fluorescence between reactive cyan and the yellow fluorophores using a-SiC:H multilayer transducers"
13:45 - 14:00	NS210: Antonio APICELLA , Second University of Naples, Italy "Biologically tecto-structured materials: A novel approach for Biomimetic hybrid ceramo-polymeric nanocompositescaffolds design and preparation"
14:00 - 14:15	NS106: Levent Trabzon , Istanbul Technical University, Turkey "The Effect of Si Nano-Columns in 2-D and 3-D on Cellular Behaviour: Nanotopography-Induced CaP Deposition from Differentiating Mesenchymal Stem Cells"
14:15 - 14:30	NS235: Andre Amaral , Universidade de Brasília, Brazil "Liposomal and Poly(lactic-co-glicolic acid) (PLGA) particles for DNA-plasmid delivery during therapy against murine paracoccidioidomycosis (PCM)"
14:30 - 14:45	NS11: Arnaud Caron , University Ulm, Germany "Quantitative Viscoelasticity Measurements of Biological Materials by Atomic Force Acoustic Microscopy"
14:45 – 15:00	NS127: Gyan Singh Shekhawat , Banasthali University, India "Biological Synthesis of Silver Nanoparticles through in vitro cultures of Brassica juncea C. Zern"
14:45 – 16:00	REFRESHMENTS & "CLOSING REMARKS"