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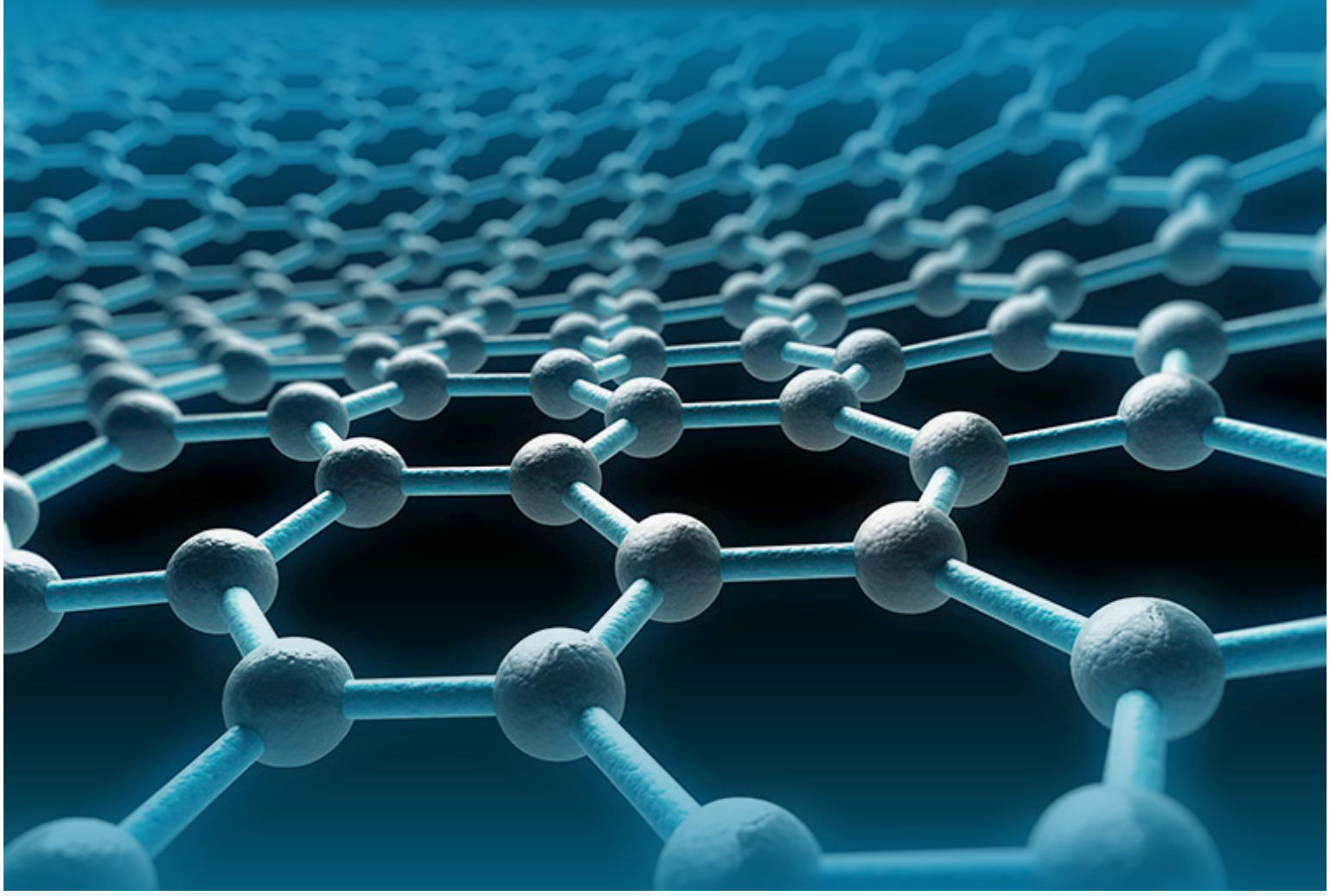
Tentative Program

2nd World Congress and Expo on

Graphene and 2D Materials

September 14-15, 2017 Edinburgh , Scotland

Theme: "Emerging Innovations in Graphene and 2D Materials"



For Available Speaker Slots

graphene@nanotechconferences.org

Conference Secretariat

Conference Series LLC 2360 Corporate Circle, Suite 400 Henderson, NV 89074-7722, USA

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2nd World Congress and Expo on

Graphene and 2D Materials

September 14-15, 2017 Edinburgh , Scotland

Program at a Glance

Day 1

Reception/Registration	**08.00-09.00**	
	Time	**General Session**
Least of 3 Keynote/Plenary Talks	09.00-09.15	Inaugural Address
	09.15-09.45	Keynote/Plenary Talk 1
	09.45-10.15	Keynote/Plenary Talk 2
	10.15-10.45	Keynote/Plenary Talk 3
Panel Discussions/Group Photo		
Coffee/Tea Break 10.45-11.00 (Networking)		
11.00-12.40	5 Speakers (20 Mins Each)	
Lunch Break 12.40-13.30		
13.30-15.30	6 Speakers (20 Mins Each)	
Coffee/Tea Break 15.30-15.45 (Networking)		
15.45-17.25	5 Speakers (20 Mins Each)	

Morning Sessions / Evening Sessions

19 Speakers for **Day 1**

Day 2

	Time	**Session 1**	**Session 2**
09.00-10.40		5 Speakers (20 Mins Each)	5 Speakers (20 Mins Each)
Coffee/Tea Break 10.40-10.55 (Networking)			
10.55-12.35		5 Speakers (20 Mins Each)	5 Speakers (20 Mins Each)
Lunch Break 12.35-13.25			
13.25-15.05		**5 Speakers (20 Mins Each)**	**5 Speakers (20 Mins Each)**
Poster Sessions			
Coffee/Tea Break 15.05-15.20 (Networking)			
15.20-17.00		**5 Speakers (20 Mins Each)**	**5 Speakers (20 Mins Each)**

Morning Sessions / Evening Sessions

40 Speakers on **Day 2**

Awards & Closing Cermony

NOTE: Program Shedule is subject to change with final allotment of the speaker slots

For more Details, Visit : http://graphene.conferenceseries.com/europe/
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Glimpses of Graphene and 2D Materials Series Conferences





















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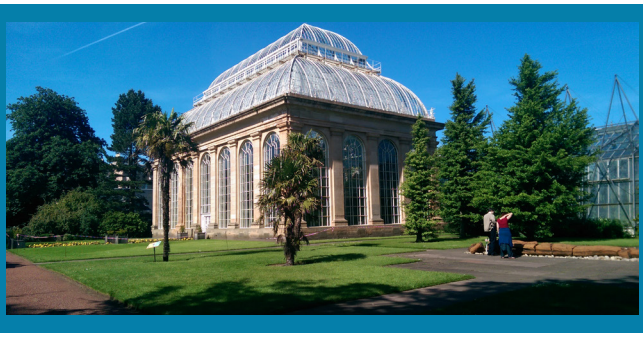
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Scott Monument



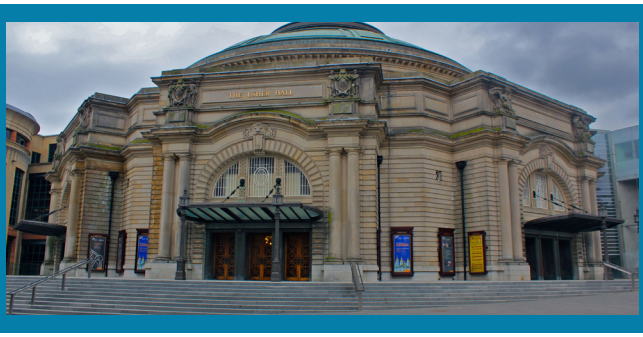
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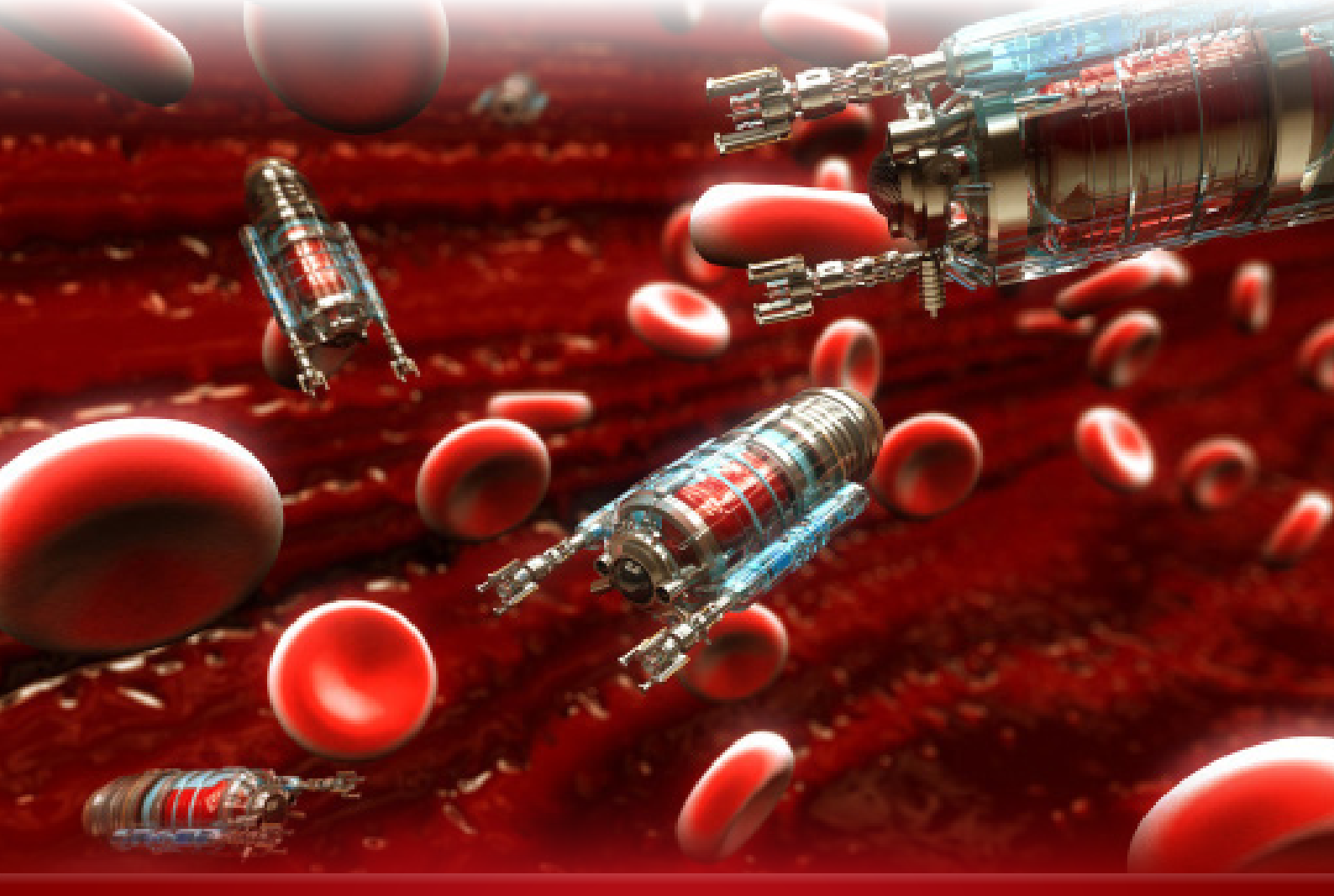
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International Conference and Exhibition on

Nanotechnology & Nanomedicine

March 12-14, 2012 Omaha Marriott, USA



Conference Secretariat

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International Conference and Exhibition on

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March 12-14, 2012 Omaha Marriott, USA

Keynote Forum

Introduction

Dr. Salvatore Santoli
International Nanobiological Testbed Ltd, UK

Dr. Joachim Koetz

University of Potsdam, Germany

Dr. Magdalena Plebanski
Monash University, Australia

Track 1: Nano-materials

Session Introduction

Title: Carbon Nanotube Composites for Photovoltaic and Bolometric Applications
Dr. I.A. Levitsky, Emitech, Inc., USA

Title: Carbon Nanotube synthesis and applications: The multiscale approach
Dr. Alex V. Vasenkov, CFD Research Corporation, USA

Title: Hybrid Tungsten Oxide /Carbon Nanoplatelets and Nanorods Prepared directly in a flame volume
Dr. Wilson Merchan-Merchan, University of Oklahoma, USA

Title: Meshing challenges in constructing implicit solvation models of biomolecular structures
Dr. Jessica Zhang, Carnegie Mellon University, USA

Title: Optical and electrical properties of covalently-functionalized double-wall carbon nanotubes
Dr. YuHuang Wang, University of Maryland, USA

Title: Modeling of Nanostructures: Nanocrystals, surfactants, and Nanobiosystems
Dr. Maria Stepanova, National Institute for Nanotechnology NRC, Canada

Title: Solid-state synthesis and applications of iron (III) oxide nanomaterials
Dr. Libor Machala, Palacky University, Czech Republic

Title: Dynamics of irradiation: From molecules to nano-objects and from material science to biology
Dr. Eric Suraud, Université Paul Sabatier, France

Title: Modeling the nanoparticle-reinforced composite
Dr. Linxia Gu, University of Nebraska-Lincoln, USA

Title: Nitrogen plasma treatment effect on graphene sheathed vertically aligned carbon nanofibers
Dr D. C. Ghimire, Chubu University, Japan

Title: Physical, mechanical, bound rubber and dynamic mechanical studies of chlorobutyl Nanocomposites: Effect of multiwalled Carbon nanotube loading and storage time
Dr. S P Mahapatra, National Institute of Technology Raipur, India

Nanomedicine

Session Introduction

Title: Nanotechnology for regenerative medicine: Increasing tissue growth, decreasing infection, and inhibiting inflammation
Dr. Thomas J. Webster, Brown University, USA
Title: Nanoplatforms for cancer targeting and imaging
Dr. Weibo Cai, University of Wisconsin - Madison, USA
Title: Tailored Ag nanoparticles for surface enhanced Raman spectroscopic analysis of heme-cofactor/enzyme complexes
Dr. Inez Weidinger, Technical University Berlin, Germany
Title: Easy detection of pM porphyrin concentrations using silver nanoparticles
Dr. Karolina Siskova, Palacky University, Czech Republic
Title: Nanoparticles for protein delivery: Improving efficacy, reducing protein diffusion, and reducing tissue overgrowth
Dr. Esmaiel Jabbari, University of South Carolina, USA
Title: AFM nanoprobing of alpha-synuclein self-assembly
Dr. Alexey V. Krasnoslobodtsev, University of Nebraska Medical Center, USA
Title: Advances in targeted lung nanomedicine as inhalable multifunctional microparticles & nanoparticles for pulmonary disease treatment and prevention
Dr. Heidi M. Mansour, University of Kentucky, USA
Title: Zinc oxide nanoparticles selectively induce apoptosis in cancer cells mediated through reactive oxygen species
Dr. Maqusood Ahamed, King Saud University, Saudi Arabia

Day 2 March 13, 2012

Salon D

Track 2: Nano-particles

Session Introduction

Title: Unattached radon progeny as an experimental tool for dosimetry of nanoaerosols: Proposed method and research strategy
Dr. Lev S. Ruzer, Lawrence Berkeley National Laboratory, USA
Title: Polyelectrolyte-stabilized gold nanoparticles of different size and shape
Dr. Joachim Koetz, University of Potsdam, Germany
Title: Nano-RNAi–functionalized polyvalent gold nanoparticles as novel antiglioma therapeutics
Dr. Alexander H. Stegh, Northwestern University, Chicago
Title: Soot particle formation in laminar diffusion biodiesel and diesel fuel airflames
Dr. Wilson Merchan-Merchan, University of Oklahoma, USA
Title: Invitro evaluation of the physiochemical effects of drug loaded carbon nanotubes on toxicity
Dr. Sunny Iyuke, University of the Witwatersrand, South Africa
Title: Nano-structures on plasma membrane of immune cells: Isolation and characterization
Dr. Anil K Bamezai, Villanova University, USA
Title: GFP as a intracellular temperature probe
Dr. Sebastian A. Thompson, ICFO-Institute of Photonic Sciences, Spain

Track 6: Nanotechnology
Track 7: Nano-sensors
Track 8: Drug delivery

Session Introduction

Title: pH induced conformational change and intramolecular dynamics of PAMAM dendrimers
Dr. Yi Liu, California Institute of Technology, USA
Title: Approaches to increasing surface stress for improving sensitivity of nanomechanical biosensors
Dr. Hai-Feng Ji, Drexel University, USA
Title: Targeted Drug Delivery Systems: Achievements and challenges
Dr. Silvia Muro, University of Maryland College Park, USA
Title: Profiling alternative splicing in Breast Cancer cells by surface-enhanced Raman Spectroscopy
Dr. Lan Sun, Sandia National Laboratories, USA

Title: Nanoparticle-based thin film devices and their applications

Dr. Wen-Yin Ko, National Chung-Hsing University, Taiwan

Title: Modulating the Phytotoxic effects of Ag NPs using BSA

Dr. Aswathy Ravindran, SASTRA University, India

Title: Fabrication of TiO2 nanoparticle thin film on titanium surfaces for application as bacterial sensor/ biochip for rapid, sensitive and direct analysis of pathogenic bacteria using MALDI-MS

Dr. Judy Gopal, National Sun Yat-Sen University, Taiwan

Title: Advanced Nanobiomaterials for Multifunctional Neural Interfaces

Dr. Mohammad Reza Abidian, Pennsylvania State University, USA

Title: Stealth liposomes loaded with photosensitizer as drug delivery system: Increasing tumor-selectivity, enhancing PDT efficacy

Dr. Tran Thi Hai Yen, Hanoi University of Pharmacy, Vietnam

Title: Analysis of micro and nano-sized particles with a tunable nanopore sensor for the precise engineering of drug delivery systems for Nanomedicine applications

Mr. Subhash Kalluri, Izon Science Ltd, USA

Title: Plasmonic photothermic angioplasty with nanoparticles and stem cells as the new revolution in international cardiology

Dr. Kharlamov A.N., Ural Institute of Cardiology, Russia

Poster Presentations

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Day 3 March 14, 2012

Salon D

Track 9: Nano-electronics
Track 10: Antimicrobial activity of metals
Track 11: Applications of nanotechnology
Track 12: Nano-devices

Session Introduction

Title: Single-molecule science with a nanopore: Inspiration from nature

Dr. Liviu Movileanu, Syracuse University, USA

Title: Metal nanoparticles and semiconductor nanocrystals synthesis and applications

Dr. Vanga R. Reddy, University of Arkansas, USA

Title: Use of quantum dot functionalized cell-penetrating peptides in cells and micro particles in a venous thrombosis model

Dr. Antonio Peramo, University of Michigan, USA

Title: Wireless nanonetworks for advanced medical applications and treatments

Dr. Ahmed Safwat, Queen's University, Canada

Title: Anti bacterial activity and non-phytotoxic nature of neem oil nanoemulsion

Dr C.H. Anjali, VIT University, India

Title: Fabrication and characterization of Pd nanocluster devices

Dr. A. I. Ayesh, United Arab Emirates University, UAE

Title: Antibiotic-Assembled gold nanoparticles: New trend for the development of anti-ESBL *Escherichia coli*

Dr. Ahmad Kabbani, Lebanese American University, Lebanon

Title: Nanoparticle assisted enhanced biosynthesis of haloarchaeal caroteinoid pigments: Preconcentration of pigments through Pt nanoparticle based liquid-liquid microextraction for MALDI-MS analysis

Dr. Muthu Manikandan, National Sun Yat - Sen University, Taiwan

Title: Formation of luminescent PbS coupled quantum dots

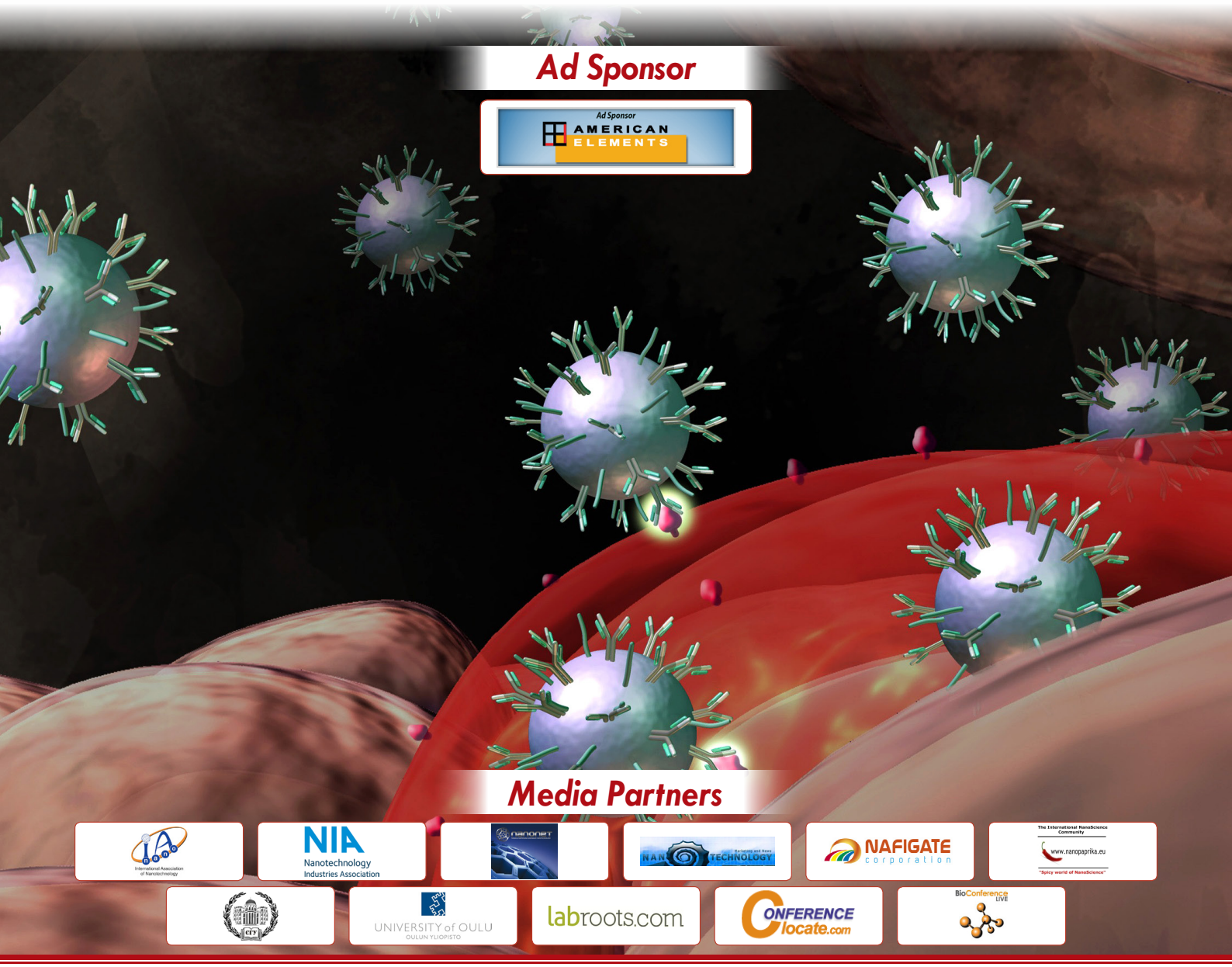
Dr. Nabanita Dutta, Variable Energy Cyclotron Centre (VECC), India

Scientific Program

3rd International Conference on

Nanotek & Expo

December 02-04, 2013 Hampton Inn Tropicana, Las Vegas, NV, USA



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Keynote Forum

Introduction

Serhii Shafraniuk
Northwestern University, USA

Lloyd L. Tran
NASA Ames Research Center, USA

Sushil K. Misra
Concordia University, Canada

Bernd Rellinghaus
IFW Dresden, Germany

Track 1: Nanomaterials (Session 1)

Session Chair: Animesh Jha, University of Leeds, UK
Session Co-Chair: Ming-Hwa R. Jen, National Sun Yat-Sen University, Republic of China

Session Introduction

Title: Nano-scale approaches for controlling dielectric thin films for photonic waveguide engineering using ultrafast pulsed lasers - a novel approach for non-clean room fabrication!
Animesh Jha, University of Leeds, UK
Title: Fabrication and mechanical properties of fiber/metal hybrid nanocomposite laminates at elevated temperature
Ming-Hwa R. Jen, National Sun Yat-Sen University, Republic of China
Title: Advanced research and nanotechnological applications of Graphene
Serhii Shafraniuk, Northwestern University, USA
Title: Molecular transformation using nanotek catalysts: Nanoporous metal skelton catalysts for green organic synthesis
Yoshinori Yamamoto, Tohoku University, Japan
Title: Understanding the freezing of water on surfaces at the nanoscale to control ice formation at the macroscale
Albert Verdaguer, ICN2 - Institut Catala de Nanociencia i Nanotecnologia, Spain
Title: Development of methods for Graphene production and chemical modification
Horacio J. Salavagione, Instituto de Ciencia y Tecnologia de Polimeros, Spain
Title: Polymer wrapping technique for selective extraction of specific large-diameter semiconducting single-wall carbon nanotubes
Masayoshi Tange, National Institute of Advanced Industrial Science and Technology, Japan
Title: Study thickness uniformity, wrinkling and effect of ambient conditions in epitaxial Graphene grown on SiC polytypes
G. Reza Yazdi, Linkoping University, Sweden
Title: New approach for synthesizing individual, controlled diameter SWNTs for electronics
Fatima Z. Bouanis, Institut Francais des Sciences et Technologies des transports, France
Title: Role of self-assembled monolayers in carbon nanomaterial; Synthesis, hybrid materials and device application
Prashanta Dhoj Adhikari, Sungkyunkwan University, Korea
Title: Synthesis and characterization of nanocomposites formed by metallic nanoparticles in insulating matrix
Maria Cecilia Salvadori, University of Sao Paulo, Brazil
Title: All carbon p-i-n solar cell by microwave surface wave plasma CVD
Dilip Chandra Ghimire, Chubu University, Japan

Track 1: Nanomaterials (Session 2)

Session Chair: Toshihiro Ishikawa, Ube Industries, Ltd., Japan
Session Co-Chair: Vijaya Kumar Rangari, Tuskegee University, USA

Session Introduction

Title: Dynamics of protonic transport through the nanochannel water in molecular porous crystals
Hiroshi Matsui, Tohoku University, Japan
Title: Dynamic tensile modulus and tunneling current under applied electric field for polymer-carbon filler composites
Masaru Matsuo, Dalian University of Technology, China

Title: Carbon nanotubes and their applications in polymer composites
Vijaya K Rangari, Tuskegee University, USA
Title: Ceramic fibers with functional surface layers synthesized from polycarbosilane containing low-molecular mass additives
Toshihiro Ishikawa, Ube Industries, Ltd., Japan
Title: Knowledge base is a future of nanomaterials world
Victor Abrukov, Chuvash State University, Russia
Title: Understanding energy and mass transport in designer nanocrystal-polymer hybrids
Jeffrey J. Urban, Lawrence Berkeley National Laboratory, USA
Title: Recent In situ wet cell TEM study on nanomaterials and nano devices
Xin Chen, East China University of Science and Technology, China
Title: Nanoparticles synthesis through bio-reductions by microorganisms and plants
Hassan Korbekandi, Isfahan University of Medical Sciences, Iran
Title: Mapping electric, magnetic and strain nanofields by off-axis electron holography: Prospects and problems
Jan Sickmann, Technische Universitaet Dresden, Germany
Title: Smart textiles based on carbon nanotubes
Wei Zhang, Dalian University of Technology, China

Fiji

Track 1: Nanomaterials (Session 3)

Session Chair: Bernd Rellinghaus, IFW Dresden, Germany
Session Co-Chair: Stoyan Sarg Sargoytchev, York University, Canada

Session Introduction

Title: Graphical 3D modeling of molecules and nanostructures in sub-nanometer scale with the BSM-SG atomic models
Stoyan Sarg Sargoytchev, York University, Canada
Title: Synthesis of protein encapsulated rear earth nanoparticles
Hideyuki Yoshimura, Meiji University, Japan
Title: Structure-property relations in high anisotropy nanomagnets
Bernd Rellinghaus, IFW Dresden, Germany
Title: Hardness of the Fe81Ga19/Si(100) film measured by the nano-identation method
Shien-Uang Jen, Institute of physics, academia sinica, ROC
Title: Ferrochemical materials
Dominique Ausserre, Universite du Maine, France
Title: Application of multiscale theory and modeling to nanoscience and nanotechnology
Sergey Gusarov, National Institute for Nanotechnology, Canada
Title: Vapor-deposited metal-boride interfacial layers as diffusion barriers for nanostructured diamond growth on cobalt alloys
Shane Aaron Catledge, University of Alabama at Birmingham, USA
Title: Simulation of self-assembly in an evaporating inkjet-sized droplet of colloidal solution by dissipative particle dynamics
Peter Lebedev-Stepanov, National Research Nuclear University MEPhI, Russia
Title: Design of electronic transport property through electronic phase manipulation in correlated electron materials
Teruo Kanki, Osaka University, Japan
Title: Versatile silica coating strategy on hydrophobic quantum dots towards nano-engineering
Mohamed F. Foda, Huazhong Agricultural University, China
Title: The morphology and growth kinetics of silicon-silver multicomponent heterostructured nanoparticles in the gas phase
Mukhles Sowwan, Okinawa Institute of Science and Technology, Japan
Title: α–Phase organic/inorganic layered nanohybrids, types, structures and their application as the precursors for producing carbon materials for use as polymeric fuel cell cathode materials
Mohammad Yeganeh Ghotbi, Malayer University, Iran

Track 2: Nanostructures

Session Chair: Hiroshi Yao, University of Hyogo, Japan
Session Co-Chair: Hiroshi Uyama, Osaka University, Japan

Session Introduction

Title: Fine-controlled metal-assembling using a dendrimer reactor
Kimihisa Yamamoto, Tokyo Institute of Technology, Japan
Title: Photofunctional organic nanoparticles
Hiroshi Yao, University of Hyogo, Japan
Title: Functional polymer monoliths with nanoscale porous structure fabrication and applications
Hiroshi Uyama, Osaka University, Japan
Title: Alloying trends from first principles: A case study of ternary and multinary nitrides
David Holec, Montanuniversitat Leoben, Austria
Title: Interparticle interaction between water molecules
Makoto Yasutomi, University of the Ryukyus, Japan
Title: Synthesis, atomic structure and hydrogen storage properties of aluminum hydride
Kazutaka Ikeda, High Energy Accelerator Research Organization, Japan
Title: Reversible nano-lithography between materials
Jae Hong Park, Korea National NanoFab Center, Korea
Title: Highly efficient single host white emitting Sr2.91V2O8:Eu0.06 nanophosphor for UV-LED
K. N. Shinde, N.S. Science and Arts College, India
Title: High molar extinction coefficient HeterolepticRu(II)-Mixed Ligand Polypyridyl complexes containing Anthracenyl and 2-Methyl-2-butenoic acid functionalities: New emerging dyes for dye-sensitized solar cell application
Adewale O. Adeloye, University of South Africa, South Africa
Title: Toxicity of nano structures
Fahad Al-Mubaddel, King saud University, Saudi Arabia

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Day 2 December 03, 2013

Salon A

Keynote Forum

Introduction

Jim Klostergaard
The University of Texas, USA

Ashok Vaseashta
Institute for Advanced Sciences Convergence and International clean Water Institute NUARI, USA

R. K. Singh Raman
Monash University, Australia

Track 3: Nanomedicine (Session 1)

Session Chair: Julia Y. Ljubimova, Cedars-Sinai Medical Center, USA
Session Co-Chair: Thomas J. Webster, Northeastern University, USA

Session Introduction

Title: Direct electron microscopic recording of the powerstroke in individual myosin heads in hydrated myosin filaments studied using the gas environmental chamber
Haruo Sugi, Teikyo University, Japan
Title: New class of nanomedicines to image and treat primary and metastatic tumors
Julia Y. Ljubimova, Cedars-Sinai Medical Center, USA
Title: From nanotechnology to picotechnology: What is on the horizon?
Thomas J. Webster, Northeastern University, USA
Title: Dendrimers and metallodendrimers for biomedical applications: A recent overview
Joao Rodrigues, Universidade da Madeira, Portugal
Title: Nanotechnology in liver cancer
M. G. Krukemeyer, Paracelsus-Hospital, Germany
Title: Quality by design approach for tablet formulations and flexible regulatory approach
Buket Aksu, Santa Farma Pharmaceuticals, Turkey
Title: Multifunctional nanoplatform for biomedical applications
Fernando Palacio, Instituto de Ciencia de Materiales de Aragon, Spain
Title: Carrier-mediated dermal delivery for prevention or treatment of skin disorders
Andreia Ascenso, Universidade de Lisboa, Portugal
Title: Pharmaceutical suspension containing both immediate/sustained release omeprazole loaded carbopol nanospheres: Preparation and *in vitro* characterization
Sree Harsha Nagaraja, King Faisal University, Saudi Arabia
Title: Application of nanomedicine in the treatment of malaria
Paula Melariri, Council for Scientific and Industrial Research, South Africa
Title: Nanosensor for real time measurement of caspase-1 activity in inflammation
Eliza Hutter, McGill University, Canada

Track 3: Nanomedicine (Session 2)

Session Chair: Eggehard Holler, Cedars-Sinai Medical Center, USA

Session Co-Chair: David K. Mills, Louisiana Tech University, USA

Session Introduction

Title: Mass spectrometry and florescence analysis of SNAP NAPPA arrays
Claudio Nicolini, University of Genova, Italy
Title: Polymaleic acid: Biology and drug delivery
Eggehard Holler, Cedars-Sinai Medical Center, USA
Title: Clay nanotubes as growth factor delivery vehicle for bone tissue formation
Sonali Karnik, Louisiana Tech University, USA
Title: Gold base plasmonic optoacoustic contrast agents for preclinical research with optoacoustic tomography and sensing
Anton Liopo, TomoWave Laboratories, USA
Title: Drug-resistance facilitates tumor-targeting of nanobiologics, HerGa and HerDox
Lali K. Medina-Kauwe, Cedars-Sinai Medical Center, USA
Title: Role of counterions on protein conformational change in protein-nanoparticles interaction
Goutam Ghosh, UGC-DAE Consortium for Scientific Research, India
Title: Design of single nanoparticle optical probes for the study of multidrug ABC membrane transporters in single living cells
Kerry J. Lee, South University, USA
Title: Revolutionizing healthcare with anti-infection nanotechnology
Erik N. Taylor, Northeastern University, USA
Title: Self-care in Keloid management with nanoparticles/microneedles for drug delivery
Xu Chenjie, Nanyang Technological University, Singapore
Title: Dual drug loaded magnetic nanoparticles for glioblastoma therapy
Fahima Dilnawaz, Laboratory of Nanomedicine, India
Title: Potential nanocarriers for topical skin delivery of drugs
Sevgi Gungor, Istanbul University, Turkey

Fiji

Track 9: Recent Trends in Nanotechnology

Session Chair: Gajanan Bhat, University of Tennessee, USA

Session Co-Chair: Hiroaki Tada, Kinki University, Japan

Session Introduction

Title: Molecular scale first series transition metal oxide cluster-surface modified Titanium (IV) oxide as solar environmental catalyst
Hiroaki Tada, Kinki University, Japan
Title: Meltblowing: A commercially feasible production technology for nanofibers
Gajanan Bhat, University of Tennessee, USA
Title: Adsorption, intrusion and freezing in porous silica: The view from the nanoscale
Benoit Coasne, Massachusetts Institute of Technology, USA
Title: Nanobubble assisted changes of surface nanomorphology
HanaTarabkova, J Heyrovsky Institute of Physical Chemistry, Czech Republic
Title: Graphene / semiconductor nanowire hybrid optoelectronic devices
Lun Dai, Peking University, China
Title: Optoelectronics with nanowires and quantum dots
Hakan Pettersson, Halmstad University, Sweden
Title: Dense packings of hard spheres from sequential deposition: A route to new architecture in the nano-world
Ho-Kei Chan, University of Nottingham, UK
Title: Self-organized organic photonic crystals for laser applications
Seiichi Furumi, National Institute for Materials Science, Japan
Title: Development of a micro-biorobot for drug delivery: Bacterial propulsion of liposomes
Zhenhai Zhang, Beijing Institute of Technology, China
Title: The dual descriptor and its possible use for a rational design of novel molecules with importance in nanoscience and nanotechnology
Jorge Ignacio MartÃnez-Araya, Universidad Autonoma de Chile, Chile

Track 10: Applications of Nanotechnology

Session Chair: Jaime Rocha-Gomes, University of Minho, Portugal

Session Co-Chair: Robert K. DeLong, Missouri State University, USA

Session Introduction

Title: From microcapsules of insect repellent to silica nanoparticles: Evolution in functionalization of textiles
Jaime I. N. Rocha Gomes, University of Minho, Portugal
Title: New THz technologies and applications in support of safety and security
A. Vaseashta, IASC and International clean Water Institute NUARI, USA
Title: Nanocrystalline alloys for remarkable oxidation resistance
R.K. Singh Raman, Monash University, Australia
Title: Characterization of novel RNA, proteinand chimerananoconjugate composites and their potential pre-clinical applications
Robert K DeLong, Missouri State University, USA
Title: Sn-related Group-IV semiconductor materials for electronic and optoelectronic applications
Osamu Nakatsuka, Nagoya University, Japan
Title: Gold nanoparticle/rutile Titanium (IV) Oxide Plasmon photo catalyst as environmental catalyts: Removal of phenol derivatives
Shin-ichi Naya, Kinki University, Japan
Title: Experimental investigation and FE modeling of nanoindentation behavior of Ti-6Al-4V alloy for aero engine components
Adepu Kumaraswamy, Defense Institute of Advanced Technology, India
Title: Nanomaterial functionality in polymer electrolyte membranes
Ramesh T. Subramaniam, University of Malaya, Malaysia
Title: Laser-microdissection of protein crystals down to submicron dimensions
Evgenia Pechkova, University of Genova, Italy
Title: Title: Observation of cell growth on the surface-modified TiO2 nanostructures
Shu-Ping Lin, National Chung Hsing University, Taiwan
Title: Superparamagnetic particles and their application in water purification and resources recovery
Karl Mandel, Fraunhofer Institute for Silicate Research ISC, Germany
Title: Medical applicability of bioactive polymer surfaces with DLC and noble metal-doped coatings
J. Ronda, AGH Universityof Science and Technology and the Institute of Nuclear Physics PAS, Poland

Poster Presentations @ Tahiti

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Day 3 December 04, 2013

Salon A

Track 5: Nanodevices and Nanosensors (Session 1)

Session Chair: Dominique Ausserre, Universite du Maine, France

Session Co-Chair: Kohki Mukai, Yokohama National University, Japan

Session Introduction

Title: Studies of properties of nanoparticles of dilute magnetic semiconductors
Sushil K. Misra, Concordia University, Canada
Title: Photonic metamaterials for InP-based optical communication devices
Tomohiro Amemiya, Tokyo Institute of Technology, Japan
Title: Template method for nano-order positioning and dense packing of colloidal quantum dots
Kohki Mukai, Yokohama National University, Japan
Title: Planar hall resistance magnetic biosensor with femptomolar resolution
CheolGi Kim, Chungnam National University, Korea
Title: New anti-reflecting layers for high contrast imaging in biophonic experiments
Dominique Ausserre, Universite du Maine, France

Title: DNA-heattronics: Designing nano-scale thermal devices utilizing the structural transition of DNA
Chih-Chun Chien, Los Alamos National Laboratory, USA
Title: Effects of dilution on particle size measurement in dynamic light scattering
Lily Zu, Sympatec Inc., USA
Title: Towards a carbon nanofiber (CNF) sensor with integrated microfluidics for biomarker detection
Tamara Floyd-Smith, Tuskegee University, USA
Title: CdSe/CdS quantum rods: Highly luminescent nanocrystals with temperature-independent lasing threshold and enhanced two-photon absorption
Iwan Moreels, Istituto Italiano di Tecnologia, Italy

Track 5: Nanodevices and Nanosensors (Session 2)

Session Chair: Arno Ehresmann, The University of Kassel, Germany

Session Co-Chair: Seyed Sadeghi, University of Alabama, USA

Session Introduction

Title: Quantum nanosensors based on quantum dot-metallic nanoparticle systems
Seyed Sadeghi, University of Alabama, USA
Title: Static and dynamic local magnetic fields for positioning and controlled movement of small objects
Arno Ehresmann, The University of Kassel, Germany
Title: Continuous glucose monitoring using ZnO nanowire biosensor chip
Jonathan Lloyd, Swansea University, UK
Title: Extraordinary optical transmission (EOT) in tapered nano-hole array for bio-chemical sensors application
Mehrdad Irannejad, University of Waterloo, Canada
Title: Spatially controlled Si-V defect nanodiamonds with nitrogen-enhanced photoluminescence prepared by scanning probe lithography
Shane Aaron Catledge, University of Alabama at Birmingham, USA
Title: Ag-Nanoassemblies as SERS active hotspots for sensory applications
Nekane Guarrotxena, ICTP-CSIC, Spain
Title: The quest for logic functionalization of magnetic nanoclusters
Georg Lefkidis, University of Kaiserslautern, Germany
Title: Silicon spin-based quantum information devices
Tetsuo Kodera, Tokyo Institute of Technology, Japan
Title: Optofluidics-based nanosensing platform for sensitive and selective detection of trace environmental pollutants
Feng Long, Renmin University of China, China

Fiji

Track 4: Nanotechnology in Food and Agriculture
Track 7: Nanotechnology in Energy Systems
Track 8: Environment, Health and Safety Issues of Nanotechnology

Session Chair: Bobby Kannan Mathan, James Cook University, Australia

Session Co-Chair: Krishna Feron, CSIRO & University of Newcastle, Australia

Session Introduction

Title: Degradation control of biodegradable biomaterials using nanotechnology
Bobby Kannan Mathan, James Cook University, Australia
Title: Nanoparticle organic solar cells
Krishna Feron, CSIRO & University of Newcastle, Australia
Title: Braking of automobiles: A potential source of nanoparticulate emissions
Kukutschova Jana, VSB Technical University Ostrava, Czech Republic
Title: Synthesis and characterization of the surface structure of thin film oxides for use as mixed conductors in electrochemical cells
Stephen Skinner, Imperial College London, UK
Title: Surface structural analyses on elemental ratio and depth profile of Ti metal subjected to heat treatment in N2 atmosphere after alkali and acid treatments
Alireza Valanezhad, Chubu University, Japan
Title: Innovative energy harvesting nanostructures for organic-based solar cells
Hemali Rathnayake, Western Kentucky University, USA
Title: Hybrid-remediation with nano-size metallic calcium and iron dispersion for detoxification of multi-pollutants containing radioactive cesium, heavy metals and POPs in contaminated soil
Tetsuji Okuda, Hiroshima University, Japan
Title: Novel approach for the extraction and immobilization of radioactive cesium from contaminated fly ash with nanometallic Ca/CaO methanol suspension
Srinivasa Reddy Mallampati, University of Ulsan, Korea
Title: Design and performance analysis acrylic coated small scale passive solar air heater
M.T. Naik, JNT University, India
Title: Nanoparticles as novel insecticidal agent for crop protection
Nitai Debnath, Amity University Haryana, India

Track 6: Nano-electronics

Session Chair: Alexander Eisfeld, Max-Planck-Institute for the Physics of Complex Systems, Germany

Session Co-Chair: Peter A. Sloan, University of Bath, UK

Session Introduction

Title: Recent development of Si chemical dry etching technologies
Toshio Hayashi, Nagoya University, Japan
Title: Rotational motion driven by single electron tunneling
Alexander Eisfeld, Max-Planck-Institute for the Physics of Complex Systems, Germany
Title: Crystal chemistry and band gaps in polycyclic aromatic hydrocarbons: A dispersion corrected DFT investigation
Bohdan Schatschneider, The Pennsylvania State University, USA
Title: Molecular technology for atomic-level precise artificial atom
Norifusa Satoh, National Institute for Materials Science, Japan
Title: Breaking the single atom limit in atomic manipulation: Nonlocal STM induced manipulation on Si(111)-7x7
Peter A. Sloan, University of Bath, UK
Title: Coulomb brocade transport emerged in two dimensional organic polymer layers
Megumu Akai-Kasaya, Osaka University, Japan
Title: Semiconductor nanowire field-effect transistors gated by metal nanowires
Wen Bin Jian, National Chiao Tung University, Taiwan

Scientific Program

Proceedings of

5th International Conference on

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November 16-18, 2015 San Antonio, USA



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5th International Conference on

Nanotek & Expo

November 16-18, 2015 San Antonio, USA

Keynote Forum

Inroduction
Sir Harold Kroto
Florida State University, USA

Claudio Nicolini
Nanoworld Institute, Italy

Israel Felner
The Hebrew University, Israel

Satwant Kaur
Hewlett-Packard, USA

Group Photo

Track 1: Nanomaterials (Session 1)

Session Chair: Serhii Shafraniuk, Northwestern University, USA
Session Co-Chair: Valerie Keller, University of Strasbourg, France

Session Introduction

Title: Fabrication of carbon fullerene based hard disk unit
Claudio Nicolini, Nanoworld Institute, Italy

Title: Different magnetic behaviors of Mg and Zn doped Fe_3O_4 nanoparticles estimated in terms of crystal domain size, universal dielectric response and application to anodes for lithium ion batteries
Masaru Matsuo, Dalian University of Technology, China

Title: Graphene sensing and thermoelectric devices
Serhii Shafraniuk, Northwestern University, USA

Title: On the use of nanodiamonds for photocatalytic applications
Valerie Keller, University of Strasbourg, France

Title: Memristive metal-insulator switches in correlated electron oxide nanowires using electric field-induced redox reaction
Teruo Kanki, Osaka University, Japan

Title: Defects in zinc oxide nanowires: Temperature evolution and the effect on contacts
Richard J Cobley, Swansea University, UK

Title: Properties of graphene oxide/thermoplastic starch green nanocomposites
K Madhukar, Osmania University, India

Title: Properties and application of doped-SWCNT, doped-CSCNT, and free-standing reduced graphene oxide sheets for energy devices
Elaine Yoshiko Matsubara, Universidade de Sao Paulo, Brazil

Title: Facile fabrication of graphene nanoribbon/silicone rubber elastomer for strain sensing
Shang Songmin, The Hong Kong Polytechnic University, Hong Kong

Track 1: Nanomaterials (Session 2)

Session Chair: Takehide Miyazaki, AIST, Japan
Session Co-Chair: Gerard Tobias, ICMAB-CSIC, Spain

Title: Structural and electronic Properties of metal endohedral silicon clusters
Takehide Miyazaki, AIST, Japan
Title: Synthesis of sub nano-size metal particles using a nano-reactor
Kimihisa Yamamoto, Tokyo Institute of Technology, Japan
Title: Pressure-induced phase transitions in nanomaterials: A thermodynamics panorama
Denis Machon, University Lyon 1-CNRS, France
Title: Guidelines proposal for nanomaterials hemocompatibility
Julie Laloy, University of Namur, Belgium
Title: 3D Orientation mapping in the transmission electron microscope – 3D-OMiTEM
Soren Schmidt, Technical University of Denmark, Denmark
Title: Carbon nanotube-iorganic nanohybrids
Gerard Tobias, ICMAB-CSIC, Spain
Title: Polymer covalently modified graphene for nonvolatile rewritable memory
Yu Chen, East China University of Science and Technology, China
Title: Selective formation of carbon nanotubes and spherical carbon nanoparticles in molten LiCl
Ali Kamali, University of Cambridge, UK
Title: Lab scale production of nanocrystalline cellulose (NCC) from rice husk biomass
Md Sakinul Islam, RMIT University, Australia

Mendocino

Track 2: Nanostructures

Session Chair: Dave H A Blank, University of Twente, Netherlands
Session Co-Chair: Ho-Kei Chan, University of Nottingham, UK

Session Introduction

Title: Materials control on a nanoscale: Artificial oxide structures
Dave H A Blank, University of Twente, Netherlands
Title: The study of nano-scale field emission phenomena
Tsung-Chieh Cheng, National Kaohsiung University of Applied Science, Taiwan
Title: Generation of polymer nanowires by a pulsed laser irradiation
Masahiro Goto, National Institute for Materials Science, Japan
Title: Dense columnar packings of hard spheres- An application to nanotube-confined fullerenes
Ho-Kei Chan, University of Nottingham, UK
Title: Hydride vapor phase epitaxy of III-V semiconductor nanostructures and nanowires
Yamina Andre, Blaise Pascal University, France
Title: Nanostructured self-assembled P3HT thin films and their application to enhance organic solar cell efficiency
Varun Vohra, University of Electro-Communications, Japan
Title: Study of photo catalytic and antibacterial activity of Ag/B/N co-doped TiO_2/CNT composite films
Md Nizam Uddin, Shahjalal University of Science and Technology, Bangladesh
Title: NanoSweet: Nanostructured composites of graphene/metal oxides for effective natural gas sweetening
Sunil P Lonkar, The Petroleum Institute, UAE
Title: Investigating the effect of a zeolite and $CaCO_3$ catalyst support on the production of Carbon nanotubes
Diakanua Nkazi, University of Witwatersrand, South Africa
Title: Self-organized synthesis of metal oxide semiconductor nanowire photocatalyst
Kenji Saito, Niigata University, Japan
Title: Microorganism-mediated, surfactant-directed synthesis of metal nanostructures
Jiale Huang, Xiamen University, China
Title: The energy transformation of mono-dispersed nanometer cluster forming process quantum mechanical
Lihong Su, Northwestern Polytechnical University, China

Track 5: Materials Science and Engineering

Session Chair: Tien-Yau Luh, National Taiwan University Taipei, Taiwan
Session Co-Chair: Shady Kamal, National Institute for Standards Giza, Egypt

Title: Ladderphanes
Tien-Yau Luh, National Taiwan University Taipei, Taiwan
Title: Change in the surface morphology of viscose fabrics by exposure to sunlight
Shady Kamal, National Institute for Standards Giza, Egypt
Title: Quantum thermodynamic aspects of magnetic molecules
Georg Lefkidis, University of Kaiserslautern, Germany
Title: NMR techniques for study of physical properties of reduced dimensionality and nano-scale materials
Vesna Mitrovic, Brown University, USA

Sonoma

Track 9: Recent Trends in Nanotechnology

Session Chair: John F Donegan, Trinity College Dublin, Ireland
Session Co-Chair: Humberto Terrones, Rensselaer Polytechnic Institute, USA

Session Introduction

Title: Inexpensive and accurate – Novel computational methods for prediction of toxicity of nanomaterials
Jerzy Leszczynski, Jackson State University, USA
Title: A review of physical and chemical routes to top-down nanofabrication
Ramesh K Agarwal, Washington University in St. Louis, USA
Title: Helium ion microscope generated nitrogen-vacancy centres in type Ib diamond
John F Donegan, Trinity College Dublin, Ireland
Title: Biomimemtics and optical cloaking
Ashok K. Vaseashta, International Clean Water Institute, USA
Title: Beyond graphene: The amazing world of layered transition metal dichalcogenides
Humberto Terrones, Rensselaer Polytechnic Institute, USA
Title: Probing the nano-world with light-driven microtools
Jesper Gluckstad, Technical University of Denmark, Denmark
Title: Wavefunction engineering in graphene systems
Adelina Ilie, University of Bath, UK
Title: Construction, functionalization, and organization of dendrimer with conjugated backbones
Masatoshi Kozaki, Osaka City University, Japan
Title: 3D nanostructures for multifunctional plasmonics
Mario Malerba, Italian Institute of Technology, Italy
Title: Sensing spin and spinning memory: A chiral-based spin sensors and magnetic memory devices without a permanent magnet
Yossi Paltiel, The Hebrew University, Israel
Title: The role of fast charge dynamics to photo-catalytic water oxidation
Tanja Cuk, University of California, USA
Title: Continuous-wave pumped lasing using colloidal CdSe quantum wells
Joel Grim, Istituto Italiano di Tecnologia, Italy

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Day 2 December 2, 2014

Sierra-A Ballroom

Keynote Forum

Inroduction
Fatih M. Uckun
Children's Hospital Los Angeles and USC Keck School of Medicine, USA

Haruo Sugi
Teikyo University School of Medicine, Japan

Julia Y Ljubimova
Cedars-Sinai Medical Center, USA

Jean-Paul (Moshe) Lellouche
Bar-Ilan University, Israel

Track 3: Nanomedicine (Session 1)

Session Chair: Eggehard Holler, Cedars-Sinai Medical Center, USA
Session Co-Chair: Eugenia Pechkova, University of Genova, Italy

Session Introduction

Title: Targeted imaging for personalized medicine: New age for combination cancer treatments
Julia Y Ljubimova, Cedars-Sinai Medical Center, USA
Title: Biodegradable nanobrushes for drug delivery
Eggehard Holler, Cedars-Sinai Medical Center, USA
Title: The role of LB thin protein film in protein crystal growth by LB nanotemplate and robot
Eugenia Pechkova, University of Genova, Italy
Title: PMLA nanoconjugates for effective delivery of antisense oligos: optimization, mechanism, and brain tumor treatment
Hui Ding, Cedars-Sinai Medical Center, USA
Title: SERS plasmonic nanotags in biomedical sensing, imaging and therapy
Nekane Guarrotxena, ICTP, Spain
Title: Nanocolloidsfor Cancer
Mark Kester, NanoSTAR Institute of the University of Virginia, USA
Title: Biological kinesin-5 nano-motors: Motile properties and intracellular functions
Leah Gheber, Ben-Gurion University of the Negev, Israel
Title: Synthetic HDL – A mimic of nature's nanomedicine
Anna Schwendeman, University of Michigan, USA
Title: Micelles as nanosized carriers for skin delivery of drugs
Sevgi Gungor, Istanbul University, Turkey
Title: Tumor regression by means of magnetic drug targeting
W Wagner, Paracelsus-Klinik Osnabrueck, Germany

Track 3: Nanomedicine (Session 2)

Session Chair: Jim Klostergaard, The University of Texas, USA
Session Co-Chair: Jerzy Leszek, Wroclaw Medical University, Poland

Session Introduction

Title: Magnetic vectoring for drug delivery to tumors: Past, present and is there a future?
Jim Klostergaard, The University of Texas, USA
Title: Nanodrug delivery of a multimodal novel drug cerebrolysin reduces engineered nanoparticles induced aggravation ofheat stroke induced ubiquitin expression and brain pathology
Hari S Sharma, Uppsala University, Sweden
Title: Early detection and treatment of Alzheimer's disease- Nanotechnology as a tool
Jerzy Leszek, Wroclaw Medical University, Poland
Title: Bioreducible cross-linked polymer coated mesoporous silica nanoparticles for targeted delivery of siRNA and chemotherapeutics to HER2+ breast cancer
Moataz Reda, Oregon Health and Science University, USA
Title: Optimization of particles size for lung specific drug delivery by way of microspheres
Sree Harsha, King Faisal University, Saudi Arabia
Title: Types of self-assembling of lengthy Intron RNA presented in the regions of homologue chromosomes somatic pairing
Viya Fedoseyeva, Russian Academy of Sciences, Russia
Title: In vivo delivery of transcription factors with chemically modified oligonucleotides
Niren Murthy, University of California at Berkeley, USA
Title: Formulation and characterization of dirithromycine nanoparticles for topical treatment
Evrim Yenilmez, Anadolu University, Turkey
Title: Ocular application of dirithromycin with chitosan based polymeric nanoparticles
Ebru Basaran, Anadolu University, Turkey
Title: Strategist PLGA nano-capsules to deliver siRNA for inhibition of carcinoma and neuroblastoma cell lines by knockdown of proto-oncogene
Archana M Raichur, Toyo University, Japan
Title: Testing the efficiency of a hybrid nanoparticulate drug delivery system for use in bone regeneration with distraction osteogenesis
Lamees Nayef, McGill University, Canada

Mendocino-Sonoma

Track-11: Biomedical Engineering and Applications

Session Chair: Sameh S Ali, Zewail City of Science and Technology, Egypt
Session Co-Chair: Rony Granek, Ben-Gurion University of the Negev, Israel

Session Introduction

Title: DNA vaccine that target hemagglutinin to MHC II-molecules rapidly induces antibody-mediated protection against influenza
Bjarne Bogen, University of Oslo and Oslo University Hospital, Norway
Title: Rational design of nucleus targeting nano-particles for enhanced intracellular active transport
Rony Granek, Ben-Gurion University of the Negev, Israel
Title: Control of chiral assemblies through hydrogen bonding properties of amino acids
Toshiyuki Moriuchi, Osaka University, Japan
Title: Magnetic iron oxide nanoparticles with hyperthermia-induced drug release ability by using click chemistry
Laurent Fontaine, University of Maine, France
Title: New age pathologists with the synchrotron: How to apply the synchrotron-based X-ray fluorescence analysis to pathological diagnosis
Akihiro Matsuura, Fujita Health University, Japan
Title: Gold, silver magnesium and magnetic nanoparticles: Nanomedicine applications in drug delivery
Mauro Comes-Franchini, University of Bologna, Italy
Title: Biomedical applications of water soluble fullerenes: How do they work?
Sameh S Ali, Zewail City of Science and Technology, Egypt
Title: In Vivo molecular imaging of retinal vascular disease
Ashwath Jayagopal, Vanderbilt University Medical Center, USA
Title: Hybrid magnetic nanoparticles mediated trimodal lethality: Chemotherapy, photothermal therapy and magnetic hyperthermia
Sivakumar Balasubramanian, Toyo University, Japan
Title: A clinical trial to evaluate the safety and immunogenicity of a novel DNA vaccine used as immunotherapy during Leishmaniasis
Laura Manna, University of Naples, Italy
Title: Monte Carlo simulation to detect the cancer cells at very early stages of breast cancer using CT images
Zaker Salehi Dehyagani, KDU University, Malaysia
Title: Directed evolution of new viruses for therapeutic gene delivery
David V Schaffer, University of California, USA

Track 8: Environment, Health and Safety Issues of Nanotechnology

Session Chair: Ofir Menashe, Kinneret College on the sea of Galilee, Israel
Session Co-Chair: Eiichiro Ichiishi, International University of Health and Welfare Hospital, Japan

Title: NT4W – Nanotechnology for contamination detection, remediation and water purification
Ashok K Vaseashta, International Clean Water Institute, USA
Title: Trends in diagnostic biochip development
Eiichiro Ichiishi, International University of Health and Welfare Hospital, Japan
Title: The use of constructed nano and micro-filtration membrane as a confine bioreactor for microbial growth and extracellular digestive enzymes secretion
Ofir Menashe, Kinneret College on the sea of Galilee, Israel
Title: Interparticle interactions of different shapes between water molecules
Makoto Yasutomi, University of the Ryukyus, Japan
Title: Nanostructured metal oxides thin films as high-quality humidity sensor
Richa Srivastava, Lucknow University, India
Title: Computational methods for predicting genotoxicity of metal oxide nanomaterials (A classification and regression tree model for predicting comet assay results)
Nazanin Golbamaki, The Mario Negri Institute, Italy
Title: Extraction of toxic and valuable metal ions from used batteries and water-borne microbes from contaminated water using the multifunctional nano composites
Amritvir Kaur, University of Central Lancashire, UK
Title: Biotoxicity of free and chitosan-coated iron nanoparticles in *Drosophila melanogaster*
Eliza Nuit Jara Negrete, Pontifical Catholic University of Ecuador. Ecuador

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Day 3 December 03, 2014

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Keynote Forum

Inroduction
Toyohisa Fujita
The University of Tokyo, Japan

Stoyan Sarg Sargoytchev
World Institute for Scientific Exploration, USA

Track 4: Nanodevices and Nanosensors

Session Chair: Jose V Garcia-Ramos, IEM-CSIC, Spain
Session Co-Chair: Anne Charrier, Aix-Marseille University, CNRS, France

Session Introduction

Title: A field effect transistor biosensor with a -pyrone derivative engineered lipid sensing layer for ultrasensitive Fe3+ ion detection with low pH interference
Anne Charrier, Aix-Marseille University, CNRS, France
Title: BIMENS- Bimetallic nanostars (Ag@Au) with high surface enhanced raman scattering (SERS) performance: Detection of β-amyloid and its marker thioflavin T
Jose V Garcia-Ramos, IEM-CSIC, Spain
Title: Bridging the gap of low to high hierarchy chemical nanosensor platforms: Recent advancements at NASA Glenn Research Center
Azlin M. Biaggi-Labiosa, NASA Glenn Research Center, USA
Title: GaAs band gap engineering by colloidal PbS quantum dots
Bruno Ullrich, Universidad Nacional Autónoma de México, Mexico
Title: Template method for positioning of colloidal quantum dots for optoelectronic device application
Kohki Mukai, Yokohama National University, Japan
Title: Properties of photonic and plasmonic resonance devices
Jae Woong Yoon, University of Texas - Arlington, USA
Title: Detection and Identification of microorganisms by nanoparticles based biosensors
Sam F Y Li, National University of Singapore, Singapore
Title: sxRNA: Using RNA-based, nano-switches to detect novel non-coding RNA expression
Scott Tenenbaum, SUNY- College of Nanoscale Science and Engineering, USA
Title: Nano-object sensing based on plasmonic superprism and carousel
Chao-Yi Tai, National Central University, Taiwan

Track 6: Nanoelectronics
Track 7: Nanotechnology in Energy Systems

Session Chair: Gregory L Snider, University of Notre Dame, USA
Session Co-Chair: Stoyan Sarg Sargoytchev, World Institute for Scientific Exploration, USA

Title: Backside antireflecting layer microscopy - Application to graphene imaging
Dominique Ausserre, Université du Maine, France
Title: What Landauer Limit? Ultra-low power electronics, and the minimum energy for computation
Gregory L Snider, University of Notre Dame, USA
Title: Physical models of LENR processes using the BSM-SG atomic models
Stoyan Sarg Sargoytchev, World Institute for Scientific Exploration, USA
Title: Resistive switching in Mott insulators: From phenomenology to Mott memories
Julien Tranchant, Universite de Nantes, France
Title: High resolution imaging of the chemical reactivity of surfaces by opto-electrochemical microscopies
Frederic Kanoufi, Universite Paris Diderot, France
Title: Titania nanotubes for energy applications
Latika Menon, Northeastern University, USA
Title: Structural analysis of aluminum-based hydrides by high intensity neutron total diffractometer (NOVA)
Kazutaka Ikeda, KEK, Japan
Title: A unified conductivity expression for ohmic and space-charge conduction in solid dielectrics
Ho-Kei Chan, University of Nottingham, UK
Title: Functionalized nanomaterials for specific lanthanide separations and nuclear wastewater treatment
Md Rabiul Awual, Japan Atomic Energy Agency, Japan
Title: Mass-selected nanoparticles as model catalysts for electrochemical energy conversion
Ifan E L Stephens, Technical University of Denmark, Denmark

Title: Dielectric and magnetic properties of metals doped $BiFeO_3$ nanoparticles
Bashir Ahmmad, Yamagata University, Japan
Title: Selective sleuthing of fluorescent Pseudomonas through ion trafficking across gold-polycarbonate composite nanoporous membrane
Krishna Pal Singh, G.B. Pant University of Agriculture and Technology, India
Title: Atomic-scale structural characterization of InAs/GaAs based quantum-dot nanostructures
Shenwei Tan, The University of Sydney, Australia
Title: Wide band gap quantum dots sensitized α-Fe_2O_3 thin film for solar generation of hydrogen
Ashi Ikram, Dayalbagh Educational Institute, India

Redwood-Sequoia

Track-10: Applications of Nanotechnology

Session Chair: Aharon Gedanken, Bar-Ilan University, Israel
Session Co-Chair: Ryszard Ostaszewski, Institute of Organic Chemistry PAS, Poland

Session Introduction

Title: Radical reactions with nano-particles suspended in aqueous solutions
Dan Meyerstein, Ariel University, Israel
Title: The hospital of the future: Avoiding bacterial infection by making all the textiles antibacterial
Aharon Gedanken, Bar-Ilan University, Israel
Title: Stereo selective bionanocatalysis on gold nanoparticles
Ryszard Ostaszewski, Institute of Organic Chemistry PAS, Poland
Title: Fast and slow laser light with femtosecond duration of pulse propagating in medium with nanorods due to frequency self-modulation
Vyacheslav A Trofimov, Lomonosov Moscow State University, Russia
Title: Evolution of raman spectrum of graphene with thickness of SiO_2 capping layer on Si substrate
Lun Dai, Peking University, China
Title: Interfaces and molecular mobility in polymer nanocomposites
Ulrich Scheler, Leibniz-Institut fur Polymerforschung Dresden e. V., Germany
Title: Polymeric Lutein nanoparticles as nano nutraceuticals
Aswathy Ravindran Girija, Toyo University, Japan
Title: Nanoscience and nanotechnology of transparent electrodes
Daniel Bellet, CNRS - Grenoble INP, France
Title: Nanosized precipitates during subsurface oxidation of steels – turning a corrosion problem into a mechanism to increase mechanical properties
Michael Auinger, InnovMath, Austria
Title: Wide band gap ZnO nanostructures: Tailoring of defect concentrations for ferromagnetic and gas sensing properties in materials
David E Motaung, Council for Scientific and Industrial Research, South Africa
Title: Anaerobic microbial desulfurization of kerosene
Semiu A Kareem, Modibbo Adama University of Technology, Nigeria
Title: Effect of nanomaterials on physical and rheological properties of asphalt binder used in Jordan
Mohammad Ali Khasawneh, Jordan University of Science and Technology, Jordan
Title: Layer by layer assembly of graphene and ultrathin vanadium pentoxidecoated MWCNTs on textile fabrics for high flexible supercapacitor electrodes
Imran Shakir, King Saud University, Saudi Arabia
Title: Phytofabrication of silver nanoparticles using indigenous medicinal plants and analysis of their antimicrobial property

Closing Ceremony

Day 1 December 01, 2014

Poster Presentations Session 1 from P-001-P-030 @ Redwood-Sequoia

Title: Paclitaxel loaded cationic solid lipid nanoparticle formulation, preparation and evaluation
Ahmet Alper Ozturk, Anadolu University, Turkey
Title: Production of ion exchange membrane based polystyrene butadiene rubber for hydrogen fuel cell
Alain I Mufula, University of the Witwatersrand, South Africa
Title: The use of phenylalanine- and polyethylene glycol-modified nano-chitosan in house dust mite allergen immunotherapy
Amornpun Sereemaspun, Chulalongkorn University, Thailand
Title: Hierarchically ordered porous titano-silicate with mesoporous and microporous pore walls for the oxidation of bulkier organic molecules
Amritvir Kaur, University of Central Lancashire, UK
Title: Strategist PLGA nano-capsules to deliver siRNA for inhibition of carcinoma and neuroblastoma cell lines by knockdown of proto-oncogene
Archana M Raichur, Toyo University, Japan
Title: Nanowired antioxidant compound H-290/51 downregulates ubiquitin and heat shock proteins expressions and attenuates exacerbation of spinal cordpathology in diabetic rats following trauma
Aruna Sharma, Uppsala University, Sweden
Title: Wide band gap quantum dots sensitized α-Fe_2O_3 thin film for solar generation of hydrogen
Ashi Ikram, Dayalbagh Educational Institute, India
Title: Preparation and characterization of meta-aramid copolymersin different diacid chloride composition
Chan Sol Kang, Chungnam National University, Korea
Title: Composition-dependent electrocatalytic properties of copper sulfides and their implication in quantum dot sensitized solar cells
Chung Soo Kim, Hanyang University, Korea
Title: An ultrasensitive electrochemical detection of protein molecules via nanoparticle-electrode collisions
Da Li, Deakin University, Australia
Title: Preparation of oral extended-release formulations containing nanospheres
Duc P Do, Chicago State University, USA
Title: Formulation development of nanoparticles for cancer therapy
Duc P Do, Chicago State University, USA
Title: Photocatalytic oxidation of methylene blue dye under visible light by Ni doped Ag_2S nanoparticles
E S Aazam, King Abdulaziz University, Saudi Arabia
Eman ELAshiry, King Abdulaziz University, Saudi Arabia

Day 1 December 01, 2014

Poster Presentations Session 2 from P-031-P-062 @ Redwood-Sequoia

Title: Structural characterization thin film grown by thermal evaporation of nanocrystalline Cu_{70} Fe_{30}
Mohammed Azzaz, USTHB, Algeria
Title: Hydrothermal synthesis of hierarchical MoO3- MWCNTs nanocomposites for electrochemical energy storage devices
Muhammad Imran Shakir, King Saud University, Saudi Arabia
Title: Dental pulp revascularization of necrotic permanent teeth with immature apex: 24 month follow up in vivo study
Najat Farsi, King Abdulaziz University, Saudi Arabia
Title: Tissue engineering for immature teeth with apical periodontitis in dogs
Najlaa Alamoudi, King Abdulaziz University, Saudi Arabia
Title: Luminescence properties of pure and doped $CaSO_4$ nanorods irradiated by 15 MeV e-beam
Najlaa D Alharbi, King Abdulaziz University, Saudi Arabia
Title: Photocatalytic activity of N-doped TiO_2 produced by sol-gel method and anodizing method in degradation of RO-16
Navid Zanganeh, Mississippi State University, USA
Title: Effect of calcination temperature on CeO_2 nanoparticle size distribution synthesized via microemuslsion method
Navid Zanganeh, Mississippi State University, USA
Title: Supramolecular complexation between drugs indomethacin, piroxicam and emodin and cucurbit[n]urils on solution and adsorbed on silver nanoparticles
Paz Sevilla, Universidad Complutense de Madrid, Spain
Title: Biodegradable core-shell polymeric nanostructures as oral delivery carrier for cromolyn sodium
Ravi R Patel, Indian Institute of Technology, India
Title: Theranostic approach of hyaluronic acid-based nanoparticle
Reju George Thomas, Chonnam National University, USA
Rodrigo Albuquerque, University of Sao Paulo, Brazil
Title: Pyridylimine cobalt (II) and nickel (II) complex-functionalized multi-walled carbon nanotubes and their catalytic activities for ethylene oligomerization
Saad M. Alshehri, King Saud University, Saudi Arabia
Title: Intranasal delivery of asenapine loaded nanostructured lipid carriers for treatment of schizophrenia
Sanjay Kumar Singh, Indian Institute of Technology, India
Title: PLASENS - Plasmonic nanoparticles for surface-enhanced Raman pesticide sensing inside interparticle hot spots created by dithiols
Santiago Sanchez-Cortes, Instituto de Estructura de la Materia, Spain
Title: Capillary force model to express bonding between two velcro-like surfaces at ambient environment
Shervin Keshavarzi, Furtwangen University, Germany
Title: Environmental reliability study of solution processed oxide transistor
Sung-Jin Kim, Chungbuk National University, South Korea
Title: Synthesis and electrochemical analysis of molybdenum sulfide promoted by various metals for hydrogen evolution reaction
Taewoo Kim, Inha University, Korea
Title: The facile synthesis of Pdnanoflowers with excellent catalytic activity towards CO oxidation: Effect of process parameters
Tareque Odoom-Wubah, Xiamen University, China
Title: Green preparation of carbon-silica composites
Tengyao Jiang, The University of York, UK
Title: Polarization dependent interaction of plasmonic nanoparticles on semiconductor surface
Tibor Gal, Budapest University of Technology and Economics, Hungary
Title: Preformulation study of olopatadine hydrochloride for the treatment ocular allergy
Umay Merve Guvea, Anadolu University, Turkey
Title: Microstructures, thermal and electrical properties of poly(phenylene sulfide)/carbon nanotube nanocomposite films
Young Ju Kim, Chungnam National University, Korea
Title: Solute concentration-dependent contact angle hysteresis and evaporation stains
Yueh-Feng Li, National Central University, Taiwan
Title: Fabrication of InAs/AlSb/GaSb TFETs by using HSQ as a mechanical support
Yuping Zeng, University of California at Berkeley, USA

Scientific Program

Nanotechnology Congress & Expo

August 11-13, 2015 Frankfurt, Germany



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Nanotechnology Congress & Expo

August 11-13, 2015 Frankfurt, Germany

Keynote Forum

Introduction

Ashok Vaseashta
Claflin University, USA

Hari Shanker Sharma
Uppsala University, Sweden

Mahi R Singh
Western University, Canada

Group Photo @ Raume/Room-5

Track 1: Advanced Nanomaterials

Session Chair: Sabyasachi Sarkar, Indian Institute of Engineering Science and Technology, India

Session Introduction

Title: Synthesis of subnano-size metal particles using a nano-reactor
Kimihisa Yamamoto, Tokyo Institute of Technology, Japan

Title: Well-defined themoresponsive polymers as injectable gels
Theoni K Georgiou, Imperial College London, UK

Title: Long, 140 ns electron spin lifetime in chemically synthesized graphene and related nanostructures and its strong interplay between the surface bound oxygen
Balint Nafradi, Ecolepolytechniquefederale de Lausanne EPFL, Switzerland

Title: Photodynamic therapy of upconversion nanoparticles prepared by laser ablation in liquid
Hiroyuki Wada, Tokyo Institute of Technology, Japan

Title: Channel length modulation effect on monolayer graphene nanoribbon field effect transistor
Mehdi Saeidmanesh, UniversitiTeknologi Malaysia, Malaysia

Track 2: Nanomaterials Fabrication, Characterization and Tools

Session Chair: Michael Hietschold, Technische Universität Chemnitz, Germany

Session Introduction

Title: Hierarchical nano- or bio-composites based on magnetic nanostructures
Beata Kalska-Szostko, University of Bialytsok, Poland

Title: Application of a difference electron nanoscope (DEN): correlation between 3D magnetical structures of synthetic fayalite with synchrotron and neutron diffraction and mössbauer spectroscopy part II
Werner Lottermoser, Salzburg University, Austria

Title: Usefulness of galvanic displacement reactions to efficiently fabricate metal nanostructures for surface-enhanced spectroscopy
Yuko S Yamamoto, Kagawa University, Japan

Title: Pattern control in molecular self-assembly
Michael Hietschold, Technische Universität Chemnitz, Germany

Title: Characterization of nanodosimeter for real time measurements in radiotherapy and medical physics
Abdulhamid Chaikh, Grenoble University Hospital, France

Title: Low cost fabrication of organic semiconductor monolayer via Organic Solid-Solid Wetting Deposition (OSWD): Physico-chemical basics, controllability, process capability
Alexander Eberle, Ludwig Maximilian University of Munich, Germany

Workshop on Nanotechnology for contamination detection, remediation and water purification
Ashok Vaseashta, Claflin University, USA

Day 2 August 12, 2015

Raume/Room-5

Track 3: Nanoscale Electronics
Track 4: Nanotech for Energy and Environment

Session Chair: Shashi Paul, De Montfort University, UK
Session Co-Chair: Takashi Tokumasu, Tohoku University, Japan

Title: Large scale molecular simulations for transport phenomena in polymer electrolyte fuel cell
Takashi Tokumasu, Tohoku University, Japan
Title: Printed nanomaterial-based flexible device sheet
Kuniharu Takei, Osaka Prefecture University, Japan
Title: Rare-earth-element free luminescent materials for warm white LEDs
Ching-Fuh Lin, National Taiwan University, Taiwan
Title: Growth and surface engineering of Si nanowires for opto-electronic applications
Muhammad Y Bashouti, Max-Planck Institute for the Science of Light, Germany
Title: Thermometry at the nanoscale
Carlos D S Brites, Aveiro Institute of Materials, Portugal
Title: Advanced electrode materials for hybrid energy storage
Pedro Gomez-Romero, Institut Catala de Nanociencia i Nanotecnologia, Spain
Title: *In-situ* scattering experiment and structural analysis of hydrogen storage materials by high intensity neutron total diffractometer (NOVA)
Kazutaka Ikeda, High Energy Accelerator Research Organization (KEK), Japan
Title: synthesis and reactivity of AU/G-C_3N_4/TIO_2 nanocomposites for water-splitting and H_2 production under solar light illumination
Valérie KELLER, University of Strasbourg, France

Track 5: Nanotech in Life science and Medicine

Session Chair: Hari Shanker Sharma, Uppsala University, Sweden
Session Co-Chair: Hussein O Ammar, Future University, Egypt

Title: New trends in nanotechnology-based targeted drug delivery systems
Hussein O Ammar, Future University, Egypt
Title: Multiplex targeted disease biomarker detection using SERS probes
Nekane Guarrotxena, Institute of polymer science and technology , Spain
Title: Magnetophoretic circuits for digital cells on chip
CheolGi Kim, DGIST, Republic of Korea
Title: Ligand-free alloy nanoparticles for applications in nano-toxicological assays
Christoph Rehbock, University of Duisburg, Germany
Title: New routes in treating brain disorders
Sylvia Wagner, Fraunhofer Institute for Biomedical Engineering (IBMT), Germany
Title: Functionalized polymeric electrospun nanoscaffolds for bone regeneration and tissue healing
Anand Gadre, University of California, USA
Title: SERS-based femto-sensitive nanosensor for protein detection
Nekane Guarrotxena, Institute of polymer science and technology, Spain
Title: Cytotoxicity of silver nanoparticles synthesized by catharanthus roseus aqueous extract on jurkat and HT29 cancer cell lines
Nor Hazwani Ahmad, Universiti Sains Malaysia, Malaysia
Title: nano carbon onions cross blood brain barrier with potential to entrap and release alzheimer drug
Sabyasachi Sarkar, Indian Institute of Engineering Science and Technology, India
Title: preparation and characterization of dexketoprofen tromethamol loaded eudragit® Rs 100 nanoparticles
Ahmet Alper Ozturk, Anadolu University, Turkey

Poster Presentation Session

Title: Nanoparticles exacerbate sleep deprivation induced brain pathology and functional disturbances. Neuroprotective effects of TiO_2 nanowired delivery of 5-HT3 receptor antagonist ondansetron
Aruna Sharma, Uppsala University, Sweden
Title: Lattice boltzmann modeling of random nano-transport phenomena in highly disordered carbon felt composite layers
Sukkee Um, Hanyang University, S. Korea
Title: Novel Pd/$CaSn(OH)_6$ nanocomposite prepared by modified sonochemical method for photocatalytic degradation of methylene blue dye
E S Baeissa , King Abdulaziz University, Saudi Arabia
Title: Fixed-dose combination of a nanodrug and a quinoline moiety-containing compound
G Linden, Teva Pharmaceutical Industries Ltd., Israel
Title: Surface and porous properties of polynaphthylamine/Fe_3O_4 composite and the arsenic adsorption capacity in wastewater
Tran Minh Thi, Hanoi National University of Education, Vietnam
Title: Functionalised dextran nanoparticles for drug delivery to the brain
Daniel Ibegbu, University of Portsmouth, UK
Title: Fabrication and characterization of chromium-iron oxide ($Cr_2Fe_6O_{12}$) nanoparticles by thermal treatment method
Mahmoud Goodarz Naseri, Malayer University, Iran
Title: On the correct form of the nonlinear optical susceptibility in strongly-driven semiconductor quantum dots
John Boviatsis, Technological and Educational Institute of Western Greece, Greece
Title: Ion-synthesized of porous silicon with silver nanoparticles.
Andrey Stepanov, Kazan Physical-Technical Institute of Russian Academy of Sciences, Russian Federation
Title: Catalytic decolorization of Acid blue 29 dye by H_2O_2 and a heterogeneous catalyst
Ibrahim A Salem, Tanta University, Egypt
Title: Defect-induced plating of lithium metal within porous graphene networks
Osman Eksik, Istanbul Technical University, Turkey

Day 3 August 13, 2015

Raume/Room-5

Workshop on "New understandings on the physical and mechanical properties of materials using computational and experimental nanotechnology"
S. Joseph Antony, University of Leeds, UK

Track 8: Terahertz Nanoscience

Session Chair: Masayoshi Tonouchi, Osaka University, Japan
Session Co-Chair: Iwao Kawayama, Osaka University, Japan

Session Introduction

Title: Introduction to terahertz nanoscience
Masayoshi Tonouchi, Osaka University, Japan
Title: Absorption and desorption dynamics of gas molecules on 2D nanomaterials observed by terahertz spectroscopy
Iwao Kawayama, Osaka University, Japan
Title: Plasmon-resonant terahertz emitters and detectors and their system applications
S Boubanga Tombet, Tohoku University, Japan
Title: Terahertz interactions in graphene: consequences for ultra-high- speed electronics
Dmitry Turchinovich, Max Planck Institute for Polymer Research, Germany
Title: Field-resolved multi-terahertz nano-spectroscopy
Max Eisele, University of Regensburg, Germany

Track 6: Nanotechnology safety
Track 7: Nano Applications

Session Chair: Valérie KELLER, University of Strasbourg, France
Session Co-Chair: S Joseph Antony, University of Leeds, UK

Title: Growth of silicon nano-structures at low temperature and their application in electronic and energy related devices
Shashi Paul, De Montfort University, UK

Title: ZnO nanoparticles toxicity studied on isolated heart model nanotechnology safety,nanotoxicology
Tamara Milivojević, University of Ljubljana, Slovenia
Title: Daily used nanoparticles increases the incidence of cancer
Hanan Ramadan Hamad Mohamad, Cairo University, Egypt
Title: Amphiphilic polymeric nanoparticles for drug delivery
AmanUllah, University of Alberta, Canada
Title: Design and characterisation of a novel T-shaped nano-antenna on diamond like carbon material
Ahmad Bahar, De Montfort University, UK

Award & Closing Ceremony

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Scientific Program

Proceedings of

7th World

NANO CONFERENCE

June 20-21, 2016

Cape Town, South Africa



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7th World NANO CONFERENCE

June 20-21, 2016 Cape Town, South Africa

Keynote Forum

Introduction

Title: Nanoclay minerals and plastics: tiny particles deliver big impact
Suprakas Sinha Ray, Chief Research Scientist and Director, DST-CSIR National Centre for Nanostructured Materials, South Africa

Session Introduction

Track 1: Nanomaterials Particles and Applications
Track 4: Nano Electronics
Track 5: Molecular Nanotechnology
Track 9: Reinforcements in Nanotechnology

Session Chair: Bonex W Mwakikunga, DST/CSIR National Centre for Nano-Structured Materials, South Africa
Session Co-chair: Annie Chimphango, Stellenbosch University, South Africa

Session Introduction

Title: Preparation of Au/silica/cellulose nanoparticle colloid solution and its use in X-ray imaging process
Yoshio Kobayashi, Ibaraki University, Japan
Title: Polymer nanofibers for desulfurization of fuels
Zenixole R Tshentu, Nelson Mandela Metropolitan University, South Africa
Title: Graphene and Titanium dioxide based hybrid materials as photoelectron catalytic systems
Rodrigo Segura, Valparaiso University, Chile
Title: Nanoscale sovereignty for waste water remediation
Shivani Bhardwaj Mishra, University of South Africa, South Africa
Title: Water Purification using Nanotechnology
Arjun Maity, DST/CSIR Innovation Centre, South Africa
Title: Comparison of morphological properties of xylan nanohydrogels produced by enzymatic and chemical methods
Annie Chimphango, Stellenbosch University, South Africa

Panel Discussions

Group Photo

Title: Microneedles from fishscale nanocellulose blends using low temperature mechanical press method
Olatunji Ololade, University of Lagos, Nigeria

Young Researchers Forum

Session Judge: Martin Falk, Institute of Biophysics of ASCR, Czech Republic
Session Judge: Genene Tessema Mola, University of KwaZulu-Natal, South Africa
Title: Looking for quantum size effects in Zr-Pb-O_2 one dimensional nanorods
K Kaviyarasu, University of South Africa, South Africa
Title: Characteristics of Colloidal Ag Nanoparticles in Polyvinyl Alcohol with Different Molecular Weight
Bella Mellisani, Gadjah Mada University, Yogyakarta, Indonesia.
Title: Gas Sensing Properties of VO_2 –Vanadium Dioxide Nanobelts: Strongly Correlated Materials in Low Dimension
Aline Simo, University of South Africa, South Africa
Title: Biosynthesis of NiO nanoparticles using Callistemon viminali's extracts & their potential for psuedocapacitor applications
Bertrand Tumbain Sone, University of the Western Cape, South Africa

Title: Sorption of NO, CO and CH_4 on Indium Phosphide Nanowires Supported with Molecular Modelling

Sanele Nyembe, University of Witwatersrand, South Africa

Title: Facile method on fabrication of mixed phase bimetallic nanocomposite with high activity for electrocatalytic application

Nolubabalo Matinise, iThemba LABS-National Research Foundation, South Africa

Title: Application of punica granatum L functionalised bimetallic nanooxides on PVP with high catalytic activities via facile green process

Xolile Fuku, University of South Africa, South Africa

Title: Iron oxide/phthalocyanine composites for electrochemical detection of heavy metals

Denisha Gounden, University of Kwa Zulu-Natal, South Africa

Title: Aqueous Synthesis of Copper Sulfide Nanoparticles for Biological Applications

Phumlani Tetyana, Mintek Nanotechnology Inovation Centre, South Africa

Title: X-ray diffraction and band gap studies of bimetallic silver-platinum nanoparticles

Fredrick O Okumu, Cape Peninsula University of Technology, South Africa

Panel Discussions

Day 2 June 21, 2016

Central 1

Keynote Forum

Introduction

Title: The Nanowire-based Breath Analyser Technology for Disease Detection

Bonex W Mwakikunga, Principal Researcher, DST/CSIR National Centre for Nano- Structured Materials, South Africa

Title: Novel Black Selective Solar Absorbers For High Temperature Concentrated Sola Power Applications

Malik Maaza, UNESCO UNISA Africa Chair in Nanosciences & Nanotechnology South Africa

Track 2: Nanoscience & Technology
Track 3: Nano Medicine
Track 6: Nanotechnology in Energy Systems
Track 7: Emerging Areas of Nanotechnology
Track 8: Nano Applications

Session Chair: Zhypargul Abdullaeva, Kumamoto University, Japan

Session Co-Chair: Amr Tayel, The American University in Cairo, Egypt

Session Introduction

Title: Solvothermal synthesis of Graphene, carbon-based Nanoparticles, Characterization, study their properties and Applications

Zhypargul Abdullaeva, Kumamoto University, Japan

Title: The mechanism of metal nanoparticle-mediated radiosensitization of tumor cells may be independent of DNA damage amplification and DNA repair inhibition

Martin Falk, Institute of Biophysics of ASCR, Czech Republic

Title: Artificial Photosynthesis: Solar Light Driven Selective Methanol Production by CO_2 Reduction

Young Soo Kang, Sogang University, South Korea

Title: Biosensing Applications of Upconverting Lanthanide Nanophosphors

Kelgenbaeva Zhazgul, Kumamoto University, Japan

Title: Effect of solvent additives in nano-scale morphology of thin film organic solar cell

Genene Tessema Mola, University of KwaZulu-Natal, South Africa

Title: Nanofluids and the Research Opportunities

Mohsen Sharifpur, University of Pretoria, South Africa

Title: Nanostructured $LiMn_2O_4$ cathode materials for efficient lithium ion battery energy storage systems

Mesfin Abayneh Kebede, The Council for Scientific and Industrial Research(CSIR), South Africa

Title: TiO_2-Graphene Oxide (GO) Nanocomposites: Synthesis, Environmental Applications and Surface Characterization using Perichromism

Amr Mohamed Tayel, The American University in Cairo, Egypt

Title: High perfermence supercapacitor based on 3D graphene nanocomposite

Saleh Khamlich, iThemba LABS-National Research Foundation, South Africa.

Young Researchers Forum

Session Judge: Mesfin Abayneh Kebede, The Council for Scientific and Industrial Research (CSIR), South Africa

Session Judge: Kelgenbaeva Zhazgul, Kumamoto University, Japan

Title: Bimetallic nanoparticles by solvothermal synthesis

Chloë Oakland, The University of Manchester, UK

Title: Detection of aqueous uranyl (VI) species using rare-earth upconversion nanophosphors

Aruna Reddy, The University of Manchester, UK

Title: Order-disorder on the nanostructures on the ocellus of the Caligo memnon (C& R elder[1867]) butterfly

Juliet Sackey, University of South Africa, South Africa

Title: Linear polyamidoamine Conjugate Containing Pamidronate and Platinum Drug: Characterization and In Vitro Cytotoxicity

Abongile Ndamase, Tshwane University of Technology, South Africa

Title: Surface modification and oxidation of vanadium thin film using femtosecond laser

Lebogang Kotsedi, University of South Africa, South Africa.

Video Presentations

Title: Heating and melting induced by surface plasmon on a metal

Peng-Sheng Wei, National Sun Yat-Sen University, Taiwan

Title: AFM investigation of DNA and their interaction with MCM protein complex

Amna Abdalla Mohammed Khalid, Trieste University, Italy

Title: Effects of Gold Nanoparticles on Marine Species

Maria de Lourdes Pereira, University of Aveiro, Portugal

Poster Presentations

Poster Judge: Zhypargul Abdullaeva, Kumamoto University, Japan

Poster Judge: Saleh Khamlich, iThemba LABS-National Research Foundation, South Africa

Title: Interconnecting Ag-NWs by argon ion beam irradiation

Shehla Honey, Nanosciences African Network, South Africa

Title: 3D simulations of F-N-electron emission in scanning probe lithography (SPL)

Steve Lenk, Technical university Ilmenau, Germany

Title: Covalent functionalisation of Lanthanide nanoparticles

Letitia Burgess, The University of Manchester, Manchester, UK

Title: Electrodeposited Ni Nanowires-Track Etched PET Composites As Selective Solar Absorbers

Lukhwa Rendani, University of South Africa, South Africa

Title: Green Biosynthesis Of Rhodium Nanoparticles Via Aspalathus Linearis Natural Extract

Enas Ismail, University of South Africa, South Africa

Title: Variational formulation and solution for buckling of elastically restrained nonlocal carbon nanotubes under distributed axial loads

Mouafo Teifouet Armand Robinson, University of KwaZulu-Natal, South Africa

Title: Properties of the 'Laser treated tubular cobalt-alumina nanocomposite' Selective solar absorber

Angela Karoro, iThemba LABS, South Africa

Title: Green Synthesis of Metal Oxides using plant extracts

Hamza Elsayed Ahmed Mohamed, University of South Africa, South Africa

Title: Biosynthesis, optimisation and characterisation of gold nanoparticles using fungal extracts

Ruqsar Bibi Ismail, University of KwaZulu-Natal, South Africa

Title: Synthesis of ZnO nanoparticles by a green process and the characterization of their physical properties

Takalani Nethavhanani, iThemba LABS, South Africa

Title: Silver Nanowires Dispersed Nanofluids for Concentrated Solar Power Application

Touria Khamliche, University of South Africa, South Africa

Title: Green synthesis of Cerium oxide Nanoparticles by Hibiscus sabdariffa flower natural extract: Main physical properties

Zamavezi Kweyama, iThemba LABS, South Africa

Award & Closing Ceremony

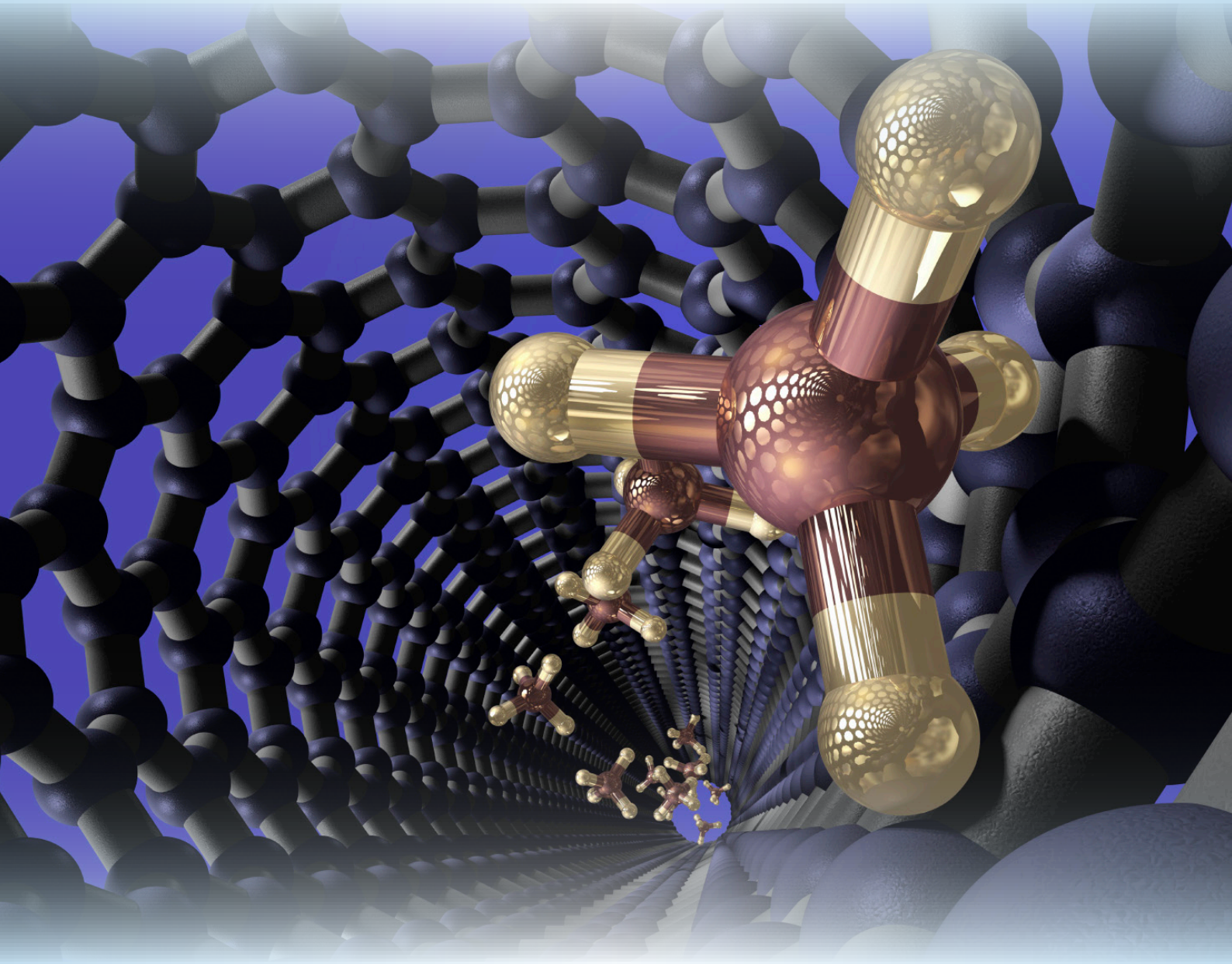
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9th Nano Congress for Next Generation

August 01-02, 2016 Manchester, UK



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9th NANO CONGRESS FOR NEXT GENERATION

August 01-02, 2016 Manchester, UK

Keynote Forum

Title: Dilemma between ISO and physics in (nano)inden

Gerd Kaupp, University of Oldenburg, Germany

Pannel Discussion

Title: Investigation of Ultrathin Periodically Ordered Adsorbate Films with Controlled Polymorphism and Induced Surface Reactions

Michael Hietschold, Technische Universität Chemnitz, Germany

Title: Microtubular nanomembrane architectures: From 3D assembly to paradigm shifting technologies

Oliver G Schmidt, IFW Dresden, Germany

Title: Nano- and micro-structures fabricated with femtosecond lasers

Xuewen Shu, Huazhong University of Science and Technology, China

Group photo

Sessions:

Advanced Nanomaterials | Nano Materials Synthesis and Characterisation | Nano Medicine and Nano Biotechnology Nanotech for Energy and Environment | Nano Science and Technology | Nano Computational Modelling

Session Chair: Gerd Kaupp, University of Oldenburg, Germany

Session Co-Chair: Jörg Kröger, Technical University of Ilmenau, Germany

Session Introduction

Title: In situ investigations of particle-mediated crystal growth

Dongsheng Li, Pacific Northwest National Laboratory, USA

Title: Influence of synthesis parameters on size, shape, composition and magnetic properties of transition metal oxide nanoparticles

Aladin Ullrich, University of Augsburg, Germany

Title: Self-cleaning coatings based on nano-structured ZnO

Dominic Tessier, CTT Group, Canada

Title: Printable holograms and nanophotonic devices via laser ablation

Haider Butt, University of Birmingham, UK

Title: Manipulating and characterizing matter at the atomic scale

Jörg Kröger, Technical University of Ilmenau, Germany

Title: Nanographene device design

Y. Hancock, University of York, UK

Title: Hydroxyapatite based nanostructures for efficient treatment of lead containing waste water

Uma Batra, PEC University of Technology, India

Young Research Forum

Title: Inkjet printing of Redox-based resistive switching memory
Bernhard Huber, Munich University of Applied Sciences, Germany
Title: Geometry induced doping in thin Si Nano-grating layers
Mikheil Mebonia, Ilia State University, Germany
Title: Studies of stiction between MEMS microgear teeth by multilevel hierarchical models
Nabeel Almuramady, Cardiff University, UK
Title: Studies of actual shapes of probes used for AFM tip-based nanomachining
Zaynab Naif Alraziqi, Cardiff University, UK

Panel Discussion

August 02, 2016 Day 2

Rosewood Room

Keynote Forum

Title: Dynamic defect-manipulation induced novel functionality in SnO2
Makoto Sakurai, National Institute for Materials Science, Japan
Title: Novel Nanocrystalline Bioactive Coatings For Ti6al4v Bio-Implants
Uma Batra, PEC University of Technology, India

Title: Further perspectives on nanostructures for single-molecule vibrational spectroscopy
Yuko S Yamamoto, Kagawa University, Japan

Sessions:
Nano Science and Technology | Advanced Nanomaterials | Nanobiomaterials | Molecular Nanotechnology | Nano Systems and their Design | Nano Materials Synthesis and Characterisation | Nano Computational Modelling | Further perspectives on nanostructures for single-molecule vibrational spectroscopy

Session Chair: Yuko S Yamamoto, Kagawa University, Japan
Session Co-chair: Fatemeh Bahadori, Bezmialem Vakif University, Turkey

Session Introduction

Title: Combined delivery of BMP-6 and PDGF-BB From Chitosan Scaffolds for osteoblastic differentiation
Eda GÖZ, Ankara University, Turkey
Title: Targeted cancer therapy using Nano-Micelles Made of natural bio-compatible materials
Fatemeh Bahadori, Bezmialem Vakif University, Turkey
Title: Lanthanides doped upconversion metal oxide nanocomposites for solar cell application
Martin Ntwaeaborwa, University of the Free State, South Africa
Title: Superconducting topological crystalline insulator Nanostructures candidate materials suitable for topological quantum computation
Satoshi Sasaki, University of Leeds, UK
Title: The uniting of spectroscopy and diffractometry to the common benefit of nanoscience
Werner Lottermoser, Salzburg University, Austria
Title: Examination of strong interaction between plasmon and molecular exciton by surface enhanced spectroscopy
Tamitake Itoh, National Institute of Advanced Industrial Science and Technology, Japan
Title: Chitosan a potent nanoparticle for nutritient delivery into plant systems
Surya Anjani Kumar, Jawaharlal Nehru Technological University, India

Young Research Forum

Title: Novel bottom-up sub-micron architectures for advanced functional materials
Chiara Busa, University of Birmingham, UK
Title:Polymeric micelle embedded Chitosan nano particles as hydrophobic drug carrier
Esra Cihan, Izmir Institute of Technology, Turkey
Title: Synthesis of silver nanoparticles using Tamarind kernel powder and Acacia Nilotica via a green route and its cytotoxicity study
Sabina Yeasmin, University of Calcutta, India

Video Presentation

Title: Wireless power for body devices
Mary Mehrnoosh Eshaghian-Wilner, University of Southern California, USA

Poster Presentations

Title: Porous graphene aerogel supercapacitors
Hyun Young Jung, Gyeongnam National University of Science and Technology, Korea
Title: A new fluorescence/PET probe for intracellular human telomerase reverse transcriptase (hTERT) using Tat peptide-conjugated IgM antibody
Kyung Oh Jung, Seoul National University College of Medicine, Korea
Title: New approach to biomolecular self-assembly through formation of peptide architectures by artificial supersaturation
Makoto Sakurai, National Institute for Materials Science, Japan
Title: The molecular mechanism of antimicrobial properties of laser processed nano-particles
Peri Korshed, The University of Manchester, UK
Title: Nanocomposites of layered clays and graphene/graphene oxide for drug delivery
Nada Hegazy, American University in Cairo, Egypt

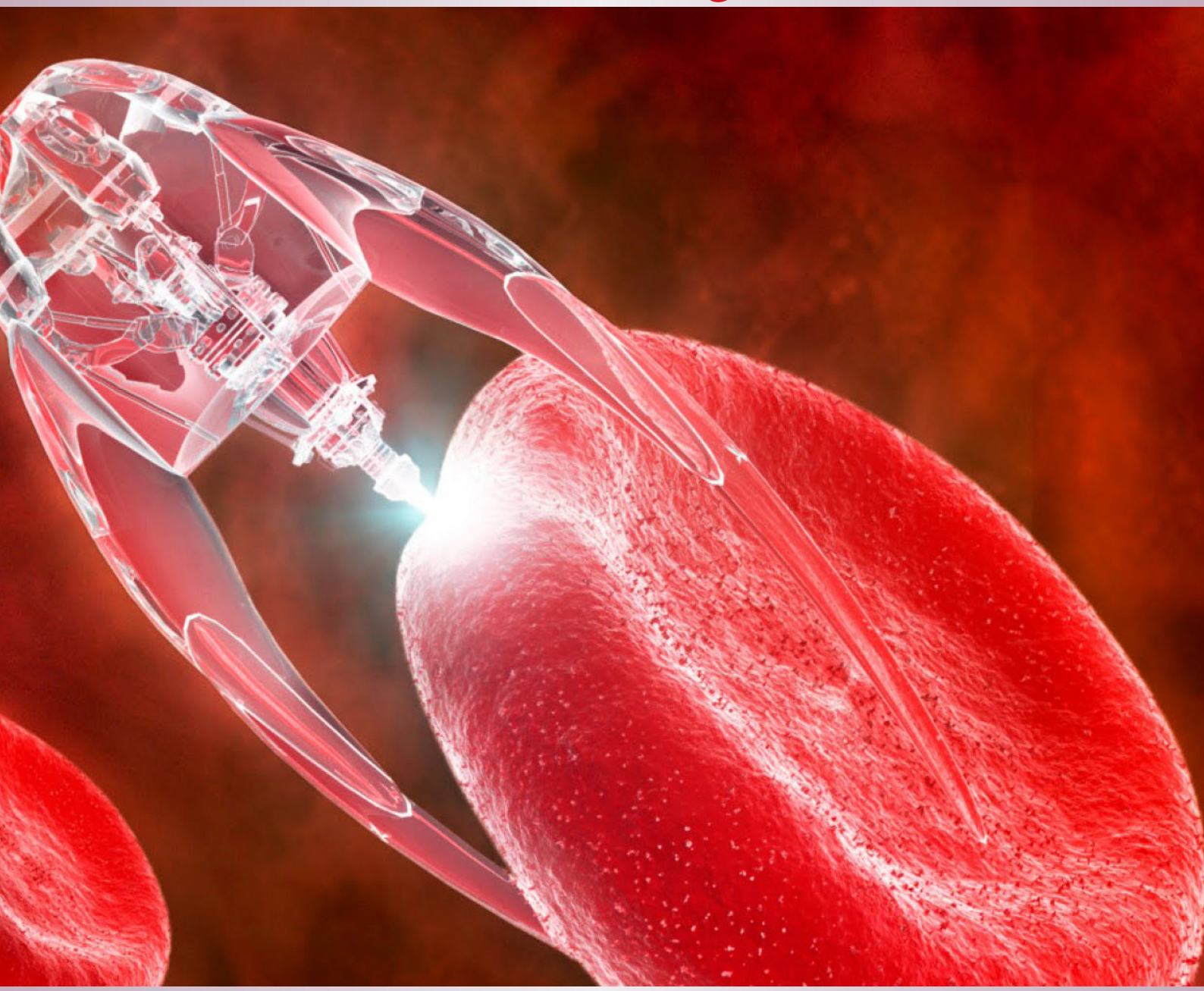
Closing & Award Ceremony

10th International Conference on

Nanomedicine and Nanotechnology in Health Care

July 25-27, 2016 Bangkok, Thailand

Scientific Program



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10th International Conference on

Nanomedicine and Nanotechnology in Health Care

July 25-27, 2016 Bangkok, Thailand

Keynote Forum

Introduction

Title: Ligand-directed targeting and molecular imaging based on in vivo phage display: Nanotechnology applications
Renata Pasqualini, University of New Mexico, United States

Title: Design of a VLP-nanovehicle for CYP450 enzymatic activity deliverys
Rafael Vazquez-Duhalt, National Autonomous University of Mexico, Mexico

Title: Designing nanoparticle based immunodulators and vaccines: the intriguing link between inflammation and immune-suppression
Magdalena Plebanski, Monash University, Australia

Major Sessions:

Nanomedicine and Drug Delivery | Nanomedicine and Nanotheranostics | Nanomedicine and Nanobiotechnology

Session Chair: Renata Pasqualini, University of New Mexico, United States

Session Co-Chair: Chandrashekhar V Kulkarni, University of Central Lancashire, United Kingdom

Session Introduction

Title: Applications of Lipid Nanostructures and Hybrid Systems for Drug Delivery
Chandrashekhar V Kulkarni, University of Central Lancashire, United Kingdom

Title: Development of temperature-sensitive PEGylated nanostructured lipid carrier for co-delivery of gemcitabine and Baicalein against A549 cell line
Ming-Jun Tsai, China Medical University, Taiwan

Title: Superparamagnetic Iron Oxide Nanoparticles for Magnetic Hyperthermia Applications
Yogita Patil-Sen, University of Central Lancashire, United Kingdom

Group Photo

Title: Theranostic of atherosclerosis using human antibody-targeted multi-modal nanoparticles for *in situ* drug delivery
Gisèle Clofent-Sanchez, Bordeaux University, France

Title: *In-vitro* and *in-silico* studies on curcumin loaded chitin and chitosan nanoparticles from shrimp shells
Palanivel Rameshthangam, Alagappa University, India

Title: Multifunctional inorganic nanoparticles (Synthesis and biological applications)
Rakesh Kumar Sharma, University of Delhi, India

Title: Stimuli-responsive nanomaterial's in cancer therapy
Chen-Sheng Yeh, National Cheng-Kung University, Taiwan

Young Researcher Forum

Title: Fabrication of silica-coated hollow carbon nanospheres encapsulating Fe_3O_4 cluster for magnetically and MR imaging guided NIR light triggering hyperthermia and enhanced US imaging
Yun-Kai Huang, National Cheng-Kung University, Taiwan

Title: The Quest to Achieving a Concerted Cancer Treatment: Challenges in Nanotheranostics Delivery
Yaw Opoku-Damoah, China Pharmaceutical University, China

Panel Discussion

Tuesday July 26, 2016 Day 2

Desk Opens For Registrations

Pailin 2

Keynote Forum

Title: Smart and Living Implant Equipped with Active therapeutics and Stem cells for Regenerative Nano Medicine
Nadia Benkirane, INSERM, France

Title: *In-Vitro* Depth-Dependent Photo thermal Ablation of Human Adenocarcinoma by Polystyrene Stabilized Fe_3O_4
Donglu Shi, University of Cincinnati, USA

Title: Mesenchymal Stem Cells Behaviour in Nano fibrous Environment
George Altankov, Institute for Bioengineering of Catalonia, Spain

Major Sessions:

Nanomedicine and Cancer | Nanomedicine and Nanotoxicology | Nanomedicine and Healthcare Applications Nanomedicine and Bioengineering

Session Chair: Nadia Benkirane, INSERM, France
Session Co-Chair: Zhi Ping Xu, University of Queensland, Australia

Session Introduction

Title: Cancer Treatment using Inorganic Nanoparticles
Zhi Ping Xu, University of Queensland, Australia

Title: Toxic Evaluation of Graphene Quantum Dots with Hemorheological Measurements
Hun-Kuk Park, Kyung Hee University, Korea

Title: Formulation of Nanocomposite drug containing fine ZnO Q-dots, and consideration of invitro cytotoxity evaluation of mouth KB44, breast MCF7, colon HT29, and HeLa Cancer Cell Lines, and invivo mouse ear swelling tests
Zahra Fakhroueian, University of Tehran, Iran

Title: Project Orchid – An Open Science-Open Source technology framework for sustainable global health innovation partnerships associated with infectious and chronic disease initiatives
Kimberly Harding, Monarch Innovation Partners, USA

Title: Investigation of the uptake and cytotoxic mechanisms of amine-modified silver nanoparticles
Ying-Jan Wang, National Cheng Kung University, Taiwan

Title: What should be concerned in nanomedicine for the developing countries
Viroj Wiwanitkit, Hainan Medical University, China

Young Researcher Forum

Title: Effect of BMP-2 peptide conjugated TiO_2 nanoparticle on osteogenic expression through biomimetic Zein PDA nanofibrous scaffold
Babitha Sekar, CSIR-Central Leather Research Institute,India

Title: Targeted nanoparticles for multimodal molecular imaging in a mouse model of atherosclerosis
Melusine Lariviere, Bordeaux University, France

Title: Thyroid hormone incorporated polycaprolactone nanofibrous material as a potential wound healing therapeutic
Aishwarya Satish, CSIR-Central Leather Research Institute,India

Title: Molybdenum nanoplates incorporated polycaprolactone nanofibers: A potential threat to skin cancer
Janani Indrakumar, CSIR-Central Leather Research Institute,India

Poster Presentations

Panel Discussion

Wednesday July 27, 2016 Day 3

Pailin 2

Major Sessions:

Nanomedicine and Drug Delivery | Nanomedicine | Nanomedicine and Nanobiology

Session Chair: Viroj Wiwanitkit, Hainan Medical University, China

Title: Conjugates of DNA and Carbon nanotubes as nanobiosensors

Kazuo Umemura, Tokyo University of Science, Japan

Title: Surface modification of layered double hydroxide nanoparticles with albumin to improve colloidal stability, redispersity and cellular uptake

Zi Sophia Gu, The University of Queensland, Australia

Title: Attachment of fullerene C60 nanoparticles to a model cognition-enhancer improves its pharmacological profile

Bachurin Sergey, Institute of Physiologically Active Compounds, Russia

Title: Enhanced cytotoxic effect of gold nanoparticles and Colocasia gigantea extract on A375 melanoma cell line

Amornpun Sereemaspun, Chulalongkorn University, Thailand

Title: Venom conjugated polylactide applied as biocompatible material for passive and active immunotherapy agaisnt scorpion envenomation

M. Elayeb, Pasteur Institute of Tunisia, Tunisia

Young Researcher Forum

Title: Synthesis of nanoparticle using dextran-like exopolysaccharide extracted from thermophilic bacteria and its biological activity

Aparna Banerjee, The University of Burdwan, India

Closing and Vote of Thanks