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Tentative Program

22nd International Conference and Expo on

Nanoscience and Molecular Nanotechnology

November 06-08, 2017 Frankfurt, Germany

Theme: "New Heights through Innovation and Collaboration"



For Available Speaker Slots

nanoscience@nanotechconferences.org

19+ Interactive Sessions	15+ Keynote Lectures	75+ Plenary Lectures	5+ Workshops

Conference Secretariat

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

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http://nanotechnology.conferenceseries.com/

22nd International Conference and Expo on

Nanoscience and Molecular Nanotechnology

November 06-08, 2017 Frankfurt, Germany

Program at A Glance

Day 1

Morning Sessions	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		Nanomedicine & Nanobiotechnology
			Advanced Nanomaterials- production, synthesis and processing
	Lunch Break 12.40-13.30		
Evening Sessions	13.30-15.30		Nano-Electronic devices and Micro/Nano systems
			Micro/ Nano-fabrication, Nano patterning, Nano Lithography & Nano Imprinting
	Coffee/Tea Break 15.30-15.45 (Networking)		
	15.45-17.25		Graphene and Applications
			Computation, Simulation & Modeling of Nanostructures, Nano systems & devices

Day 2

Morning Sessions		Time	Session 1	Session 2
	Least of 3 Keynote/Plenary Talks	09.15-09.45	Keynote/Plenary Talk 1	
		09.45-10.15	Keynote/Plenary Talk 2	
		10.15-10.45	Keynote/Plenary Talk 3	
	Coffee/Tea Break 10.45-10.55 (Networking)			
	10.55-12.35		Bio-Nanomaterials and biomedical devices, applications	Nanotechnology & Energy
	Lunch Break 12.35-13.25			
Evening Sessions	13.25-15.05		Nano metrology & Nano tribology	Nano photonics, Nano Imaging, Spectroscopy & Plasmonic devices
	Coffee/Tea Break 15.05-15.20 (Networking)			
	15.20-18.00		Nanotechnology: Environmental effects and Industrial safety	Future prospects of Nanotechnologies and commercial viability
			Video presentations	
			Young Research Forum	Poster Session

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Day 3

	Time	Session 1	Session 2
Morning Sessions			
Least of 3 Keynote/Plenary Talks	09.15-09.45	Keynote/Plenary Talk 1	
	09.45-10.15	Keynote/Plenary Talk 2	
	10.15-10.45	Keynote/Plenary Talk 3	
Coffee/Tea Break 10.45-10.55 (Networking)			
10.55-12.35		Bio-Nanomaterials and biomedical devices, applications	Nanotechnology & Energy
Lunch Break 12.35-13.25			
Evening Sessions			
13.25-15.05		Nano metrology & Nano tribology	Nano photonics, Nano Imaging, Spectroscopy & Plasmonic devices
Coffee/Tea Break 15.05-15.20 (Networking)			
15.20-18.00		Nanotechnology: Environmental effects and Industrial safety	Future prospects of Nanotechnologies and commercial viability
		Video presentations	
		Young Research Forum	Poster Session

Awards & Closing Ceremony

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

For more Details PS: http://nanotechnology.conferenceseries.com/ nanoscience@nanotechconferences.org | nanotechnology@conferenceseries.net

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Research Scientist, Baker Hughes Enterprise Research, USA

Glimpses of Nanotechnology Conferences

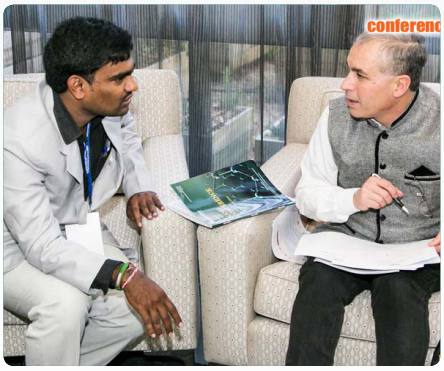










Glimpses of Nanotechnology Conferences











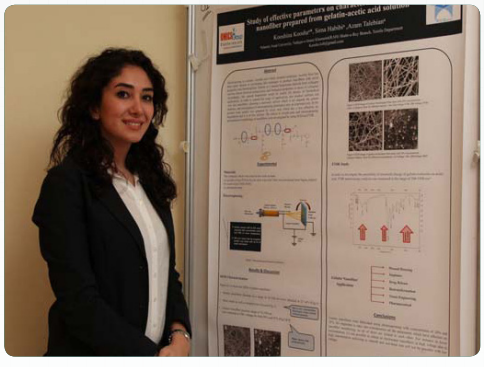














Major Scientific Sessions

- Nanomedicine & Nanobiotechnology
- Advanced Nanomaterials- production, synthesis and processing
- Nano-Electronic devices and Micro/Nano systems
- Micro/ Nano-fabrication, Nano patterning, Nano Lithography & Nano Imprinting
- Graphene and Applications
- Bio-Nanomaterials and biomedical devices, applications
- Nanotechnology & Energy
- Nano metrology & Nano tribology
- Nano photonics, Nano Imaging, Spectroscopy & Plasmonic devices
- Nanotechnology: Environmental effects and Industrial safety
- Future prospects of Nanotechnologies and commercial viability

Best Poster Award



- You will be given about 5-7 minutes to present your poster including questions and answers. Judges may pose questions during the evaluation of the poster
- Judges will even evaluate the student's enthusiasm towards their study, interest and knowledge in the area of their research
- The winners will be announced at the closing ceremony of the conference. The decision of the winner will be withdrawn if the winner/winners is/are not present at the time of announcement
- Apart from the judging time you may also be present at the poster to share your research with interested delegates



Young Researchers Forum

- Present your research through oral presentations
- Learn about career development and the latest research tools and technologies in your field
- This forum will give pertinent and timely information to those who conduct research and those who use and benefit from research
- Develop a foundation for collaboration among young researchers
- The forum will provide an opportunity for collegial interaction with other young investigators and established senior investigators across the globe
- Interact and share ideas with both peers and mentors

General Queries
nanoscience@nanotechconferences.org

Conference Venue

Frankfurt, Germany

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America: Conference Series LLC
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Instructions for Oral presenters

Presentation duration: 15 minutes for presentation and 5 minutes for questions/answers Format: Microsoft Power Point presentation only (allocated time is subject to change)

1. Please check the schedule of your paper presentation in the detailed program.
2. Please register for presentation on our website at least 30 days prior to conference dates.
3. After registration, please mail us camera ready copy of your presentation to the following e-mail id: nanoscience@nanotechconferences.org or nanoscience@protonmail.com through https://www.wetransfer.com/
4. Please bring a copy of your presentation in a pen drive for easy access of your presentation at the conference.
5. Please prepare yourself at least 10 minutes before the time that indicated in the attached timetable.
6. For presentation style, only LCD projector connected to the computer will be available; presentation by transparency will not be accepted.
7. On Spot Registration will be open on the first day of the conference and the presenters who have already confirmed their participation by sending us camera ready copy can register there and proceed with their presentations.

Instructions for poster presentation

Preparing for Poster Presentation

1. Each poster should be approximately 1x1 M long. The title, contents and the author's information should be clearly visible from a distance of 1-2 feet.
2. Use fonts such as Arial/Times New Roman in a reasonable font size that should be easy to read.
3. Long narrated paragraphs should be avoided.
4. Please make sure that your paper number is clearly visible on your poster board.
5. Short phrases and bulleted points should be used in the poster to present the main highlights of the work done.
6. The Poster should include the following:
    i. Overview
    ii. Introduction
    iii. Method
    iv. Result
    v. Conclusion
7. Mounting and other materials will be available at the Poster desk.
8. Each Presenter should be present at your poster board for giving your presentation during the designated time.
9. On Spot Registration will be open on the first day of the conference and the presenters who have already confirmed their presentation by sending us the PPT copy can register there

Poster Present Time:
To be updated soon.

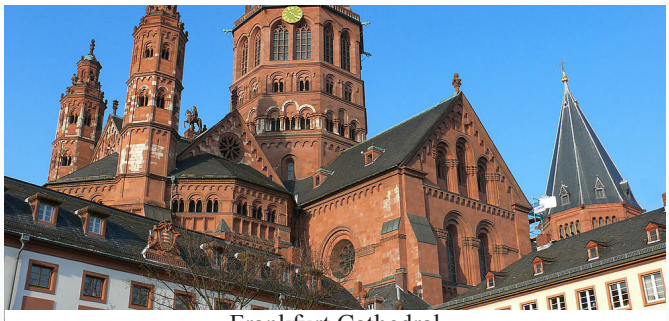
Removal Poster:
To be updated soon.



Best Tourist Destinations in Frankfurt



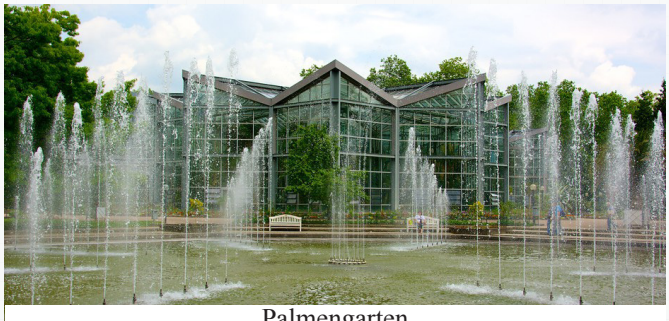
Alte-Oper



Frankfurt Cathedral



Höchster Schloss Museum



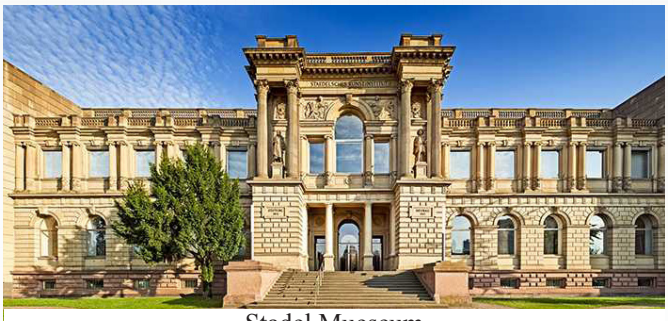
Palmengarten



Paulskirche



Roemer



Stadel Mueseum



Veitshochheim Schloss

About Frankfurt

The most international city in Germany, the largest financial centre on the continent, the historical city of coronations, the city of Goethe and the Frankfurt School… In brief, to the smallest metropolis in the world, in which there is a lot to discover at close hand. Whether this glance at the city's home page is the start of a longer, maybe even permanent, stay on the banks of the Main, or if, as a business visitor, you only have a limited amount of time available: you will find that the city has interesting offers for extensive tours of the city, cultural enjoyment and attractive shopping trips waiting for you.

Almost one in three of the people living in Frankfurt do not hold a German passport. No matter where visitors come from, they will always meet people in Frankfurt who speak their language and a restaurant that serves their favourite food. The open and hospitable atmosphere in Frankfurt stems from its centuries-old role as a trading centre. This liberal and democratic tradition of the city may be one reason for the fact that people from very diverse cultures have lived here in peace with one another for a long time. They have all contributed to making this city shine slightly differently from every angle, like a jewel shines slightly differently when you look at it from different sides.

This starts with the city's architecture. Those who go and have a drink in a cosy cider pub on a nice summer evening will experience the atmosphere that even Frankfurt's most famous son, Johann Wolfgang Goethe, would still easily recognise. The view of Frankfurt's bold high-rise architecture is just as attractive and yet very different. Directly opposite the high-rise buildings, on the other side of the Main, a unique collection of 13 museums has been developed and these are devoted to different works of art, from classical paintings to modern media.



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770th Conference

Scientific Program

11th International Conference and Expo on

Nanoscience and Molecular Nanotechnology

October 20-22, 2016 Rome, Italy



Hosting Organizations: Conference Series LLC

2360 Corporate Circle., Suite 400 Henderson, NV 89074-7722, USA

Ph: +1-702-508-5200 Ext: 8035, Fax: +1-650-618-1417, Toll free: +1-800-216-6499

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Email: mailto:nanotechnology@conferenceseries.net

Day 1 October 20, 2016

Registrations

OLIMPICA

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Opening Ceremony

Keynote Forum

Title: Nanoparticles for treatment of Alzheimer Disease
Dr Massimo Masserini, University of Milano-Bicocca, Italy
Title: Tuning nanomaterials' properties to boost photoconversion efficiency in excitonic solar cells
Dr Alberto Vomiero, Luleå University of Technology, Sweden

Networking and Refreshments Break: @ Foyer

Title: The role of nanosystems in oil and gas production
Dr Valeh Shamilov, State Oil Company of Azerbaijan Republic, The Republic of Azerbaijan

Panel Discussion

Group Photo session @ 11:45-11:55

Sessions:
Nano-Fabrication, Characterization | Nanomedicine and Nanobiotechnology | Nanotechnology in Energy Molecular Nanotechnology | Nanotechnology for Safety, Regulations and Ethics
Session Chair: Massimo Masserini, University of Milano-Bicocca, Italy
Session Chair: Anna Rita Bilia, University of Florence, Italy

Session Introduction

Title: Accurate and simultaneous biological targets identification by optically active nanoprobes
Dr Nekane Guarrotxena, ICTP-CSIC, Spain
Title: Targeted nanodelivery to treat chronic kidney disease. Nanomaterial design, response of podocytes and the role of glomerular filtration barrier
Stefanio Ordanini, Politecnico di Milano, Italy
Title: Natural Products Loaded In Nanocarriers: An Opportunity To Increase Stability, Oral Bioavailability And Bioefficacy
Dr Anna Rita Bilia, University of Florence, Italy
Title:The capabilities of X-ray excited optical luminescence by using X-ray nanoprobe beamline aimed for 40nm spatial resolution at Taiwan Photon Source.
Dr Bi-Hsuan Lin, National Synchrotron Radiation Research Center, Taiwan

Lunch Break @ Hotel Restaurants

Title: A new stitching Soft X-ray interference lithography technique
Dr Wu Yanqing, Shanghai Institute of Applied Physics, P R China
Title: Using laser-induced jets fabrication method to control the particle size and alloy ratio of nanoparticle arrays
Dr Shao-Chin Tseng, National Synchrotron Radiation Research Center, Taiwan
Title: Poly-dopamine coated nano-size liposomes as novel drug carriers
Wei Zong, Harbin Institute of Technology, P R China
Title: Design and Synthesis of Magnetic Nanoparticles by Microwave Strategy
Yi-Jun Liang, Southeast University, P R China
Title: Hierarchical Release of Liposomes with Aqueous Two Phase System-A New Strategy for Long-circulating Liposomes
Xunan Zhang, Harbin Institute of Technology, P R China
Title: Facile Encapsulation of Gold Nanoparticles into PLGA Nanocarriers: Toward Visualizing Polymeric Nanoparticles Inside Biological Compartments
Alaaldin M. Alkilany, University of Jordan, Jordan

Networking and Refreshments Break: @ Foyer

Title: Synthesis, structural properties and applications of zinc oxide nanowires growth on different substrates
Paula Obreja, National Institute for R&D in Microtechnologies (IMT-Bucharest), Romania
Title: I-CRLMNP: Immobilization of Candida rugosa lipase on magnetic nanoparticles with three different surface modifications
Marzieh Aghababie, University of Isfahan, Iran
Title: Fabrication and characterization of Polyvinyl alcohol nanofiber
Nazanin Ghafari, Islamic Azad University, Iran

Panel Discussion

Day 2 October 21, 2016

OLIMPICA

Keynote Forum

Title: Flame Retardants Nanocomposites-Synergy Effect Of Combining Conventional Antypirenes With Carbon Nanofillers

Dr Ewa-Kicko Walczak, Institute for Engineering of Polymers Materials and Dyes, Poland

Title: The interaction of nano-archeasomes with lung surfactant in monolayer biomimetic systems

Dr E Anibal Disalvo, CIBAAL, Argentina

Sessions:
Advanced Nanomaterials | Nano-Electronics and Microsystems | Applications of Nanotechnology Industrial Nanotechnology | Nanotechnology for Oil and Gas Industry | Medical Nanotechnology in cancer therapy | Biomedical Nanomaterials | NanoTechnology for environment protection

Session Chair: Ewa-Kicko Walczak, Institute for Engineering of Polymers Materials and Dyes, Poland

Session Chair: Alexander Soldatov, Southern Federal University of Russia, Russia

Session Introduction

Panel Discussion

Title: Smart organic-inorganic hybrid nanomaterials. Design and functionality
Dr Nekane Guarrotxena, ICTP-CSIC, Spain

Networking and Refreshments Break: @ Foyer

Title: Low power Up-conversion Nano-Materials for Solar Applications and Bio-theranostics
Angelo Monguzzi, Università degli Studi Milano-Bicocca, Italy
Title: Synchrotron Based Picoscale Local Atomic Structure Characterization of Advanced Nanomaterials for Nano-Bio-Med Applications
Alexander Soldatov, Southern Federal University of Russia, Russia
Title: Novel magnetically separable nanocomposites as visible-light-driven photocatalysts with highly enhanced activity
Aziz Habibi-Yangjeh, University of Mohaghegh Ardabili, Iran
Title: Nanofabrication strategies for influencing biomolecule behavior
P Guida, University of Genoa, Italy
Title: Geometry Induced Doping in Thin Si Nano-grating Layers
Mikheil Mebonia, Peter Grünberg Institut PGI, Germany
Title: Research on nano-particle film preparation having a flexible magnetothermal response and good biocompatibility
Fengguo Fan, Southeast University, P R China

Lunch Break: @ Hotel Restaurants

Title: Comprehensive study of ZAIS Nanocrystals photo-physics
Gilles Le Blevennec, Univ Grenoble Alpes, France
Title: Polymeric nanochannels for studing DNA and for counting natural and engineered nanoparticles
Elena Angeli, Univerisity of Genova, Italy
Title: Removal of Dye Contaminants from Waste Water by Using Highly Cross-Linked Polymer as Novel Adsorbant
Cansel Tuncer, Eskisehir Osmangazi University, Turkey.
Title: Albumin-Gold Nanorods Based Core-Shell Nanoplatforms for Cancer Theranostics
Hsien-Ting Chiu, National Tsing Hua University, Taiwan, R.O.C
Title: Conservation Of Historical Documents With Silver/Chitosan Nanocomposite
Güncem Özgün Eren, Yıldız Technical University, Turkey.
Title: Synthesis and Characterization of Superparamagnetic Colloidal Nanoparticles for Theranostics in Oncology
Elena Kuchma, Southern Federal University, Russia.

Networking and Refreshments Break: @ Foyer

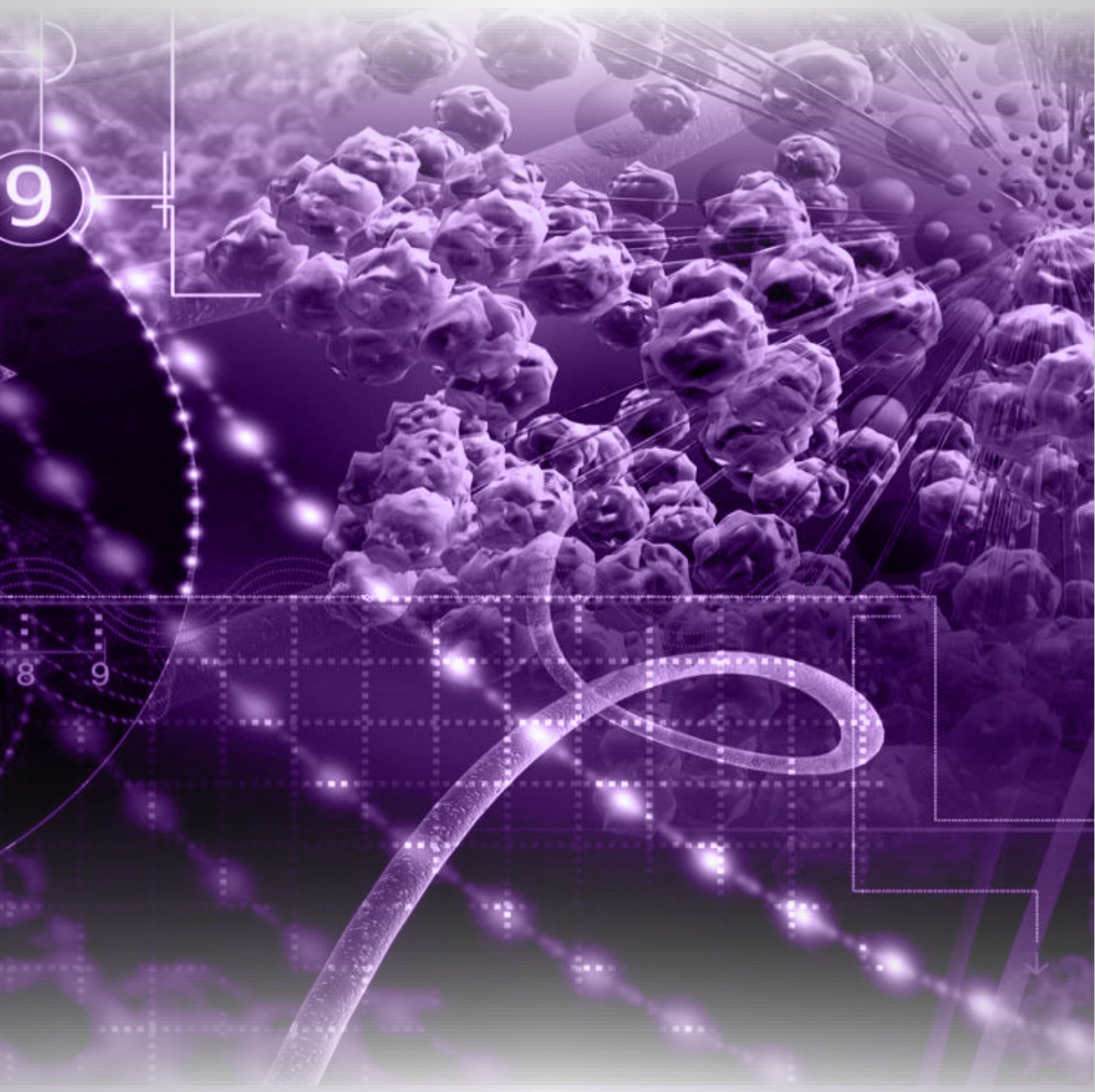
Special Keynote Session

Title: Energy harvesting form solar light by nano structural controlled iron oxide thin films

Hitoshi Tabata, University of Tokyo, Japan

Title: In-vitro Controlled Release of 5-FU Drug from a Stimuli-Responsive Microjel/Liposome Biomaterials at Different Temperature
Damla Ülker, Eskisehir Osmangazi University, Turkey
Title: Applications of nanotechnology in oil and gas industry
Faseeh Ahmad Khan, DIT University, India
Title: Skin permeation characterization for conjugated carboxymethyl-oligochitosan-carboxymethyl-5-fluorouracil nanoparticles
Mazita Mohd Diah, iPROMISE, Malaysia

Poster Presentations @ Cassia	
Poster Judge: Hitoshi Tabata, University of Tokyo, Japan	
NSC-01	**Title: Antigen encapsulated O-carboxymehtyl chitosan nanoparticles for vaccine delivery** **Natalia Marchesan Bexiga**, Sao Paulo University School of Pharmaceutical Sciences, Brazil
NSC-02	**Title: Single nanowire on graphene (SNOG) as an efficient, reproducible, and stable SERS-active platform** **Taejoon Kang**, Korea Research Institute of Bioscience and Biotechnology (KRIBB), Korea
NSC-03	**Title: Preparation of pyrenyl-based multifunctional nanocomposites for biomedical applications** **Eun-Kyung Lim**, Korea Research Institute of Bioscience and Biotechnology, Korea
NSC-04	**Title: Production of CdS Nanoparticles with Different Methods and Their Usage in Waste-Water Treatment** **Cansel Tuncer**, Eskisehir Osmangazi University, Turkey
NSC-05	**Title: Stimuli-Responsive Microjel/Liposome Hybrit Biomaterials For Controlled and Targeted Drug Release Applications** **Vural Butun**, Eskisehir Osmangazi University, Turkey
NSC-06	**Title: Dispersion of carbon nanotubes by (in) gemini surfactants solution** **Michalina Scupin**, Adam Mickiewicz University, Poland
NSC-07	**Title: Investigation of behavior of water protons in close proximity to Multiwalled Carbon Nanotubes coated by Gemini Surfactants** **Justyna Iżykowska**, Adam Mickiewicz University, Poland
NSC-08	**Title: Investigation of morphology and stability of carbon nanomaterials dispersions with surfactants.** **Augustyn Moliński**, Adam Mickiewicz University, Poland
NSC-09	**Title: The study of electrostatic properties and dispersion quality of the aqueous solutions of carbon nanotubes with dimeric surfactants** **Jakub Zareba**, Adam Mickiewicz University, Poland
NSC-10	**Title: Ketoprofen –loaded nanoparticles PLGA – PEG conjugated with a peptide of ocular delivery** **Roberto Carlos Gónzalez Pizarro**, University of Barcelona, Spain
NSC-11	**Title: Direct synthesis of hydrogen peroxide from hydrogen and oxygen over core-satellite nanocatalysts protected by a mesoporous silica shell** **Myung-gi Seo**, Korea University, South Korea
NSC-12	**Title: A new stitching Soft X-ray interference lithography technique** **Jun Zhao**, Shanghai Institute of Applied Physics, P R China
NSC-13	**Title: Polyacrylic Acid Coated PAMAM Dendrimer Nanocluster as a pH-Responsive Drug Delivery Vehicle for Targeted Therapy** **Tsu-An Yang**, National Chiao Tung University, Taiwan
NSC-14	**Title: Nano-Bio-Integration of Albumin-Gold Nanorods Laden Macrophage for Tumortropic Drug Delivery and Controlled Release in Cancer Therapy** **Hsien-Ting Chiu**, National Chiao Tung University, Taiwan
NSC-15	**Title: Electrospun Polystyrene (PS) Nanofibers Loaded with Polyvinylchloride (PVC) Particles for Crude Oil Spill Cleanup** **Mohamed Alazab Alnaqbi**, United Arab Emirates University, United Arab Emirates
NSC-16	**Title: Biopolymer nanocomposites based on poly(hydroxybutyrate-co- hydroxyvalerate) and WS2 inorganic nanotubes** **Mohammed Naffakh**, Escuela Técnica Superior de Ingenieros Industriales (ETSII-UPM), Spain
NSC-17	**Title: Novel electrospun composite nanofibres incorporating conducting polyaniline for wound healing applications** **Panagiota Moutsatsou**, Loughborough University, UK
NSC-18	**Title: Cytotoxic effects and intracellular trafficking pathways of conjugates of AFP receptor binding domain with different charged PAMAM dendrimers in tumor cells** **Nikita Yabbarov**, A. Tsyb Medical Radiological Research Centre, Russia
NSC-19	**Title: Study of some effective parameters on characterization of gelatin nanofiber prepared from gelatin-acetic acid solution** **Kooshina Koosha**, Islamic Azad University, Iran
Day 3 October 22, 2016	
Extended Networking and Lunch	
Closing Ceremony	



Bookmark your dates

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Scientific Program

7th World NANO CONFERENCE

June 20-21, 2016 Cape Town, South Africa

Hosting Organizations: Conference Series LLC
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Email: nano@insightconferences.com; nano@conferenceseries.net

Registrations

Central 1

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Opening Ceremony

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, SA

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, SA

Session Co-chair: Annie Chimphango, Stellenbosch University, SA

Session Introduction

Title: Preparation of Au/silica/cellulose nanoparticle colloid solution and its use in X-ray imaging process

Yoshio Kobayashi, Ibaraki University, Japan

Networking & Refreshments @ Foyer

Title: Polymer nanofibers for desulfurization of fuels

Zenixole R Tshentu, Nelson Mandela Metropolitan University, SA

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, SA

Title: Water Purification using Nanotechnology

Arjun Maity, DST/CSIR Innovation Centre, SA

Title: Comparison of morphological properties of xylan nanohydrogels produced by enzymatic and chemical methods

Annie Chimphango, Stellenbosch University, SA

Panel Discussions

Group Photo 13:20-13:25

Lunch Break @ Foyer

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, SA

Title: Looking for quantum size effects in Zr-Pb-O_2 one dimensional nanorods

K. Kaviyarasu, University of South Africa, SA

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, SA

Title: Biosynthesis of NiO nanoparticles using Callistemon viminali's extracts & their potential for psuedocapacitor applications.

Bertrand Tumbain Sone, University of the Western Cape, SA

Networking & Refreshments @ Foyer

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

Sanele Nyembe, University of Witwatersrand, SA

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

Nolubabalo Matinise, iThemba LABS-National Research Foundation, SA

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, SA

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

Denisha Gounden, University of Kwa Zulu-Natal, SA

Title: Aqueous Synthesis of Copper Sulfide Nanoparticles for Biological Applications

Phumlani Tetyana, Mintek Nanotechnology Inovation Centre, SA

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

Fredrick O. Okumu, Cape Peninsula University of Technology, SA

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, SA

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

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

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

Networking & Refreshments @ Foyer

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, SA

Title: Nanofluids and the Research Opportunities

Mohsen Sharifpur, University of Pretoria, SA

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), SA

Lunch Break @ Foyer

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, SA.

Young Researchers Forum

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

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

Abongile Ndamase, Tshwane University of Technology, SA
Title: Surface modification and oxidation of vanadium thin film using femtosecond laser

Lebogang Kotsedi, University of South Africa, SA.

Networking & Refreshments @ Foyer

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, SA

Title: Interconnecting Ag-NWs by argon ion beam irradiation

Shehla Honey, Nanosciences African Network, SA
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, SA
Title: Green Biosynthesis Of Rhodium Nanoparticles Via Aspalathus Linearis Natural Extract

Enas Ismail, University of South Africa, SA
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, SA
Title: Properties of the 'Laser treated tubular cobalt-alumina nanocomposite' Selective solar absorber

Angela Karoro, iThemba LABS, SA
Title: Green Synthesis of Metal Oxides using plant extracts

Hamza Elsayed Ahmed Mohamed, University of South Africa, SA
Title: Biosynthesis, optimisation and characterisation of gold nanoparticles using fungal extracts

Ruqsar Bibi Ismail, University of KwaZulu-Natal, SA
Title: Synthesis of ZnO nanoparticles by a green process and the characterization of their physical properties

Takalani Nethavhanani, iThemba LABS, SA
Title: Silver Nanowires Dispersed Nanofluids for Concentrated Solar Power Application

Touria Khamliche, University of South Africa, SA
Title: Green synthesis of Cerium oxide Nanoparticles by Hibiscus sabdariffa flower natural extract: Main physical properties

Award & Closing Ceremony

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Scientific Program

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Scientific Program

Day 1 November 16, 2015

Registrations

Texas A

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Opening Ceremony

Keynote Forum

Introduction

Ashok Vaseashta
Institute for Advanced Sciences Convergence & International Clean Water Institute, USA

Carlo Montemagno
Alberta Ingenuity Lab, Canada

Fang Xie
Imperial College London, UK

Coffee Break & Group Photo @ Foyer

Track 1: Nanomaterials
Track 2: Nanostructures

Session Chair: Carlo Montemagno, Alberta Ingenuity Lab, Canada

Session Chair: R M G Rajapakse, University of Peradeniya, Sri Lanka

Session Introduction

Title: Low-cost clay-polymer nanocomposites as oxygen reduction catalysts for fuel cell applications
R M G Rajapakse, University of Peradeniya, Sri Lanka

Title:Synthesis and photopolymerization of C_{60} fullerene nanowhiskers
Kun'ichi Miyazawa, National Institute for Materials Science, Japan

Title: Friedel-Crafts alkylation on mesoporous W-Zr composite oxide catalysts prepared by a wall ion-exchange method
Masakazu Iwamoto, Chuo University, Japan

Title: Characterization, mechanical and thermochemical properties of 2D carbon-based nanomaterials studied by calorimetry and thermal analysis
Kristina Lilova, Setaram Inc., USA

Lunch Break @ Texas E

Title: Hybrid nanofibers of TiO_2-silicone and TiO_2-Ag-silicone for high water flux photocatalytic degradation of dairy effluent
Muzafar A Kanjwal, Technical University of Denmark, Denmark

Title: Semiconducting SWCNT: From materials to thin film transistors
Zhao Li, National Research Council of Canada, Canada

Title: Synthesis and characterization of Strontiumzinc oxide nanocomposite via soft chemical process
Etakula Nagabhushan, Osmania University, India

Title: Bioinspired surfaces with gradient micro- and nanostructures to control wettability
Yongmei Zheng, Beihang University, China

Title: Carbon nanotube toxicity: *In-situ* imaging method using peapods to evaluate the biokinetics of carbon nanotubes
Naoto Saito, Shinshu University, Japan

Title: Control of optical properties of oxynitride pigments through stoichiometries
Toshihiro Moriga, Tokushima University, Japan

Coffee Break @ Foyer

Young Researchers Forum

Title: Ultra-durable rotary nanomotors assembled from nanoentities by electric fields
Jianhe Guo, University of Texas, USA

Title: PLA/GNP/NHA- Application of poly-lactic acid reinforced with graphene nanoplatelets and nano-hydroxyapatite hybrids in load bearing bone implants
Feven Mattews Michael, University of Nottingham, Malaysia
Title: On the mechanics of nanomaterials in micro-/nano-scale applications
Mohammed Ibrahim Shaat, New Mexico State University, USA

Day 2 November 17, 2015

Texas A

Keynote Forum

Introduction

Gerd Kaupp
University of Oldenburg, Germany

Yutaka Ohno
Nagoya University, Japan

Track 3: Nanomedicine
Track 4: Nanodevices & Nanosensors

Session Chair: William E Lee, Defence Research and Development, Canada

Session Co-Chair: Hari S Sharma, Upasala University, Sweden

Session Introduction

Title: Nanotechnology-enhanced biosensors for pathogen detection
William E Lee, Defence Research and Development, Canada
Title: Early detection and treatment of Alzheimer's disease- Nanotechnology as a tool
Jerzy Leszek, Wroclaw Medical University, Poland

Coffee Break @ Foyer

Title: Determining the DNA binding properties of nanoscale ruthenium dumbbells using optical tweezers
Thayaparan Paramanathan, Bridgewater State University, USA
Title: Characterization of multimodal silica nanoparticles for nanomedicine
Benezra M, Sloan Kettering Institute, USA
Title: Superior neuroprotective effects of TiO_2 nanowired cerebrolysin vs. Poly (D,L-lactide-co-glycolide) nanoparticles loaded delivery in Alzheimer's disease brain pathology
Hari S Sharma, Uppsala University, Sweden
Title: Structuring of nanoporous powders into hierarchically porous nanostructured adsorbents for decarbonization
Farid Akhtar, Luleå University of Technology, Sweden
Title: Measurement of biomagnetic field in cell tissues utilizing pT resolution micro magnetic sensor based on magnetoimpedance element.
Tsuyoshi Uchiyama, Nagoya University, Japan

Lunch Break @ Texas E

Track 5: Materials Science & Engineering
Track 6: Nanoelectronics
Track 7: Nanotechnology in Energy Systems

Session Chair: Gerd Kaupp, University of Oldenburg, Germany

Session Co-Chair: Hiroaki Suzuki, University of Tsukuba, Japan

Title: Electrochemical autonomous microfluidic devices for analytical applications
Hiroaki Suzuki, University of Tsukuba, Japan
Title: Tuning photophysical and electrochemical properties of cationic iridium (III) complexes based on 4-methoxyphenylvinylquinolines for organic light emitting devices for lighting
Adewale O Adeloye, Botswana Institute for Technology Research and Innovation, Botswana
Title: Energy harvesting device with nanofluidic reverse electrodialysis
Daejoong Kim, Sogang University, Republic of Korea
Title: Innovative BioMEMS devices leveraging nanofluidic control for drug delivery and cell transplantation
R Lyle Hood, Houston Methodist Research Institute, USA

Young Researchers Forum

Title: Coaxial electrospinning of PCL/GT hybrid fiber for encapsulation and controlled release of doxycycline
Abdurizzagh Khalf, Oklahoma State University, USA
Title: Nano-emulsions for targeted biomedical imaging
Mohamed Attia, University of Strasbourg, France

Coffee Break @ Foyer

Title: Accurate modeling and analysis of mechanical nano-resonators
Mohammed Ibrahim Shaat, New Mexico State University, USA
Title: Nanoparticles application for enhanced oil recovery
Maje Alhaji Haruna, University of Leeds, UK

Workshop

Title: Business Decisions, Marketing and Nanotek
Mohammed Basheer Ahmed Khan, Pondicherry University, India

Poster Presentations

NAE-1	**Title: Nanowired delivery of cerebrolysin reduces Alzheimer's disease pathology following amyloid beta infusion aggravated by concussive head injury.** **Aruna Sharma**, Uppsala University, Sweden
NAE-2	**Title: Field enhancement using plasmonicnano-structures** **Khaled Hassan Baz**, Alexandria University, Egypt
NAE-3	**Title: Field enhancement using quantum dot arrays** **Khaled Hassan Baz**, Alexandria University, Egypt
NAE-4	**Title: Functional silk-like fibers** **Daiwen Yang**, National University of Singapore, Singapore
NAE-5	**Title:Using intruded nano-catalysts to nano-oxidation pattern by atomic force microscope** **Shao-Chin Tseng**, National Synchrotron Radiation Research Center, Taiwan
NAE-6	**Title:Continuous flow process for the scalable production of cellulose nanocrystals** **Soon Yee Liew**, University of Nottingham, UK
NAE-7	**Title: Effect of synthesis condition on mesoporous silica from elephant grass via solgel on its morphology and its application in adsorption of cationic dyes** **Samson Akpotu**, University of KwaZulu Natal, Durban
NAE-8	**Title: Effect of multi-walled carbon nanotubesin three different dispersants on MC3T3-E1 cell line proliferation** **Hisao Haniu**, Shinshu University, Japan
NAE-9	**Title: Plasmon metal enhanced titanium dioxide photo-catalyst nanoparticles for the removal of organics in water** **Pardon Nyamukamba**, University of Fort Hare, South Africa

Day 3 November 18, 2015

Texas A

Keynote Forum

Hari S Sharma
Uppsala University, Sweden

Aman Ullah
University of Alberta, Canada

Track 8:Environment, Health and Safety issues of Nanotechnology
Track 9: Recent Trends in Nanotechnology
Track 10: Applications of Nanotechnology
Track 11: Biomedical Engineering and Application

Session Chair: Hari S Sharma, Uppsala University, Sweden
Session Co-Chair: Benezra M, Sloan Kettering Institute, USA

Session Introduction

Title: Synthesis and reactivity of Au/g-C_3N_4/TiO_2 nanocomposites for water-splitting and H_2 production under solar light illumination
Valerie Keller, University of Strasbourg, France

Coffee Break @ Foyer

Title:Conversion of oils into monomers and nanocomposites
Aman Ullah, University of Alberta, Canada
Title:Theoretical investigation on heterogeneous photocatalytic systems containing metal oxide and aqueous solution
Mitsutake Oshikiri, National Institute for Materials Science, Japan
Title:Study of bio-distribution of encapsulated ytterbium nanoparticles for solid tumors treatment in mice
Navideh Aghaei Amirkhizi, Islamic Azad University, Iran

Lunch Break @ Texas E

Awards & Closing Ceremony

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