



معهد الملك عبد الله لتقنية النانو  
King Abdullah Institute for Nanotechnology

## The International Conference For NanoTechnology Industries

The Leading Technology of 21st Century

April 5-7, 2009

King Saud University, Riyadh, Saudi Arabia

*Conference Program*

Sunday April 5, 2009

## Morning Session

8:00-9:00	Registration			
9:00-9:30	Opening Ceremony, Recitation of Holy Qur'an and Opening Speeches			
9:30-10:30	<p style="text-align: center;"><b>K1</b></p> <p style="text-align: center;">Session Chair: Prof. Mustafa El-Sayed Director, Laser Dynamics Lab Georgia Institute of Technology, Atlanta, USA</p> <p><b>From Nanoscience to Nanoproducts</b> Prof. Richard A. Williams Pro Vice Chancellor , Director of Nanomanufacturing Institute, The University of Leeds- Leeds LS29JT- England</p>			
10:30-10:40	Break			
10:40-11:40	<p style="text-align: center;"><b>K2</b></p> <p style="text-align: center;">Session Chair: Prof. Mustafa El-Sayed Director, Laser Dynamics Lab Georgia Institute of Technology, Atlanta, USA</p> <p><b>Progress of Nanoscience and Nanotechnology in China</b> Prof. Chunli Bai National Steering Committee for Nanoscience and Nanotechnology; The Chinese Academy of Sciences, Beijing 100864, China</p>			
	<p><b>S<sub>1</sub>: Synthesis and Characterization of Nanomaterials</b> Session Chair: Dr. Saud . Al-Resayes Chair, Chemistry Dept. KSU</p>	<p><b>S<sub>2</sub>:Nanobiotechnolog</b> Session Chair: Dr. Salman Al-Rokayan , KAIN Dean, KSU</p>	<p><b>S<sub>3</sub>:Selected Topics (I) in Nanotechnology</b> Session Chair. Dr. Omar Al-Dossary , Chair, Physics Dept., KSU</p>	<p><b>S<sub>4</sub>: Selected Topics (II) in Nanotechnology</b> Session Chair. Dr. Mansoor Alhazaa , Chair, Chemical Engng. Dept., KSU</p>
11:45-12:05	<p>Synthesis of ZnO Nanorod Arrays on Nanoparticles-Precoated ITO Glass Substrate <b>Muhammad Yahaya</b> <i>School of Applied Physics, faculty of Sciences and Technology-University of Kebangsaan , Malaysia, 43600 UKM, Bangi, Salangor, Malaysia</i></p>	<p>Investigation of Nanoorganized Biomaterials of Marine Organic Using Spectroscopic Methods <b>René Born</b> <i>Institute of Materials Science, TU Dresden, D-01062 Dresden, Germany</i></p>	<p>Electrical Characterization of Al/Polymer /Ag and Al/Polymer Nanocomposite/Ag Schottky Diodes <b>Muhammad H. Sayyad</b> <i>GIK Institute of Engineering Science and Technology, Topi 23640, NWFP, Pakistan</i></p>	<p>A New and an Economical Route for the Preparation of Mg(OH): Nanorods and Their Potential Application <b>Mohammad A. Shah</b> <i>EM Laboratory, Department of Physics, National Institute of Technology, Hazratbal Srinagar, Kashmir-190006. India</i></p>

<p><b>12:05-12:25</b></p>	<p>Ge Adsorption and Self-Assembled Nano-Structure Formed on Si(III) at High Temperature  <b>Zubaida Ansari</b>  <i>School of Materials Science, Japan Advanced Institute of Science and Technology, 1-1-Ashahidai, Tatsunokucho, Nomi-gun, Ishikawa 923-1292, Japan</i></p>	<p>Nano-Biotechnology Approach to Self-Assembled Amphiphilic Poly(<math>\epsilon</math>-carpolactone)-grafted-Poly(vinyl alcohol) Nanoparticles Hydrophobic and Hydrophilic Drugs Carrier Nanoparticles  <b>Sheikh A. Arjamend</b>  <i>Department of Bionano System Engineering, Chonbuk National University, Chonju 561-756, Korea</i></p>	<p>Improving the Fluidizability of Nanopowder Through Addition of Small proportion of Geldart Group B Particles  <b>Mohammad A. Qumruddin</b>  <i>Chemical Engineering Department, College of Engineering, KSU, Riyadh, Saudi Arabia</i></p>	<p>Effect of Silver Nanoparticles Dispersion on the Interaction Between Ionic Surfactants and Organic Additives  <b>Syed S. Shah</b>  <i>Department of Chemistry, Quaid-I-Azam University, 45320, Islamabad, Pakistan</i></p>
<p><b>12:25-12:45</b></p>	<p>An in Situ Kinetic Study of the Hydrothermal Synthesis of Titania Nanoparticles Employing Energy Dispersive X-ray Diffraction  <b>Mohammed Rehan</b>  <i>Institute of Particle Science and Engineering, University of Leeds, Leeds, UK</i></p>	<p>Biologically Tecto-Structured Materials: A Novel Approach for Biomimetic Hybrid Ceramo-Polymeric Nanocomposite Scaffolds Design and Preparation  <b>Antonio Apicella</b>  <i>IDeAS Materials Lab, Abbazia di San Lorenzo ad Septimum Aversa, second University of Naples, Italy</i></p>	<p>Enhancement of Corrosion Resistance of Ternary Ni-W-P Alloys Using Nanocoating  <b>Talal . A. Al-Johani</b>  <i>Corrosion Research Group, KACST, Riyadh 11442, Saudi Arabia</i></p>	<p>Laser Speckle Interferometry For Detecting Nanobiomaterials Particles Size and Distribution.  <b>Hatem M. El Ghandour</b>  <i>Physics Department, Faculty of Science, Ain Shams University, Cairo- Egypt</i></p>
<p><b>12:45-1:05</b></p>	<p>Chemical Modification of Multi-walled Carbon Nanotubes and their Application for Solid Phase Extraction of Different Pollutants from Aqueous Samples  <b>Mohammad Abdel Salam</b>  <i>Chemistry Department , Faculty Science, King Abdulaziz University, Jeddah , Saudi Arabia</i></p>	<p>Enhanced Delivery of Baclofen Through Blood–Brain Barrier Using poly-(butylcyanoacrylate)Nanoparticles Coated with Polysorbate-80 as a Carrying Vector  <b>Basel A. Abdel Wahab</b>  <i>Department of Pharmacology and Toxicology, College of Medicine, Assiut University, Assiut, Egypt</i></p>	<p>The Nanowizard II-The Latest in High Performance AFM With true Optical Integration  <b>Gerd Behme</b>  <i>JPK Instruments AG, Bouchestrasse 12, 12435, Berlin, Germany</i></p>	<p>Synthesis and Applications of Supported Nano Gold Catalysts  <b>Saleh A. Al-Sayari</b>  <i>Researches CSS-CRD-R&amp;T, Saudi Basic Industries Corporation, Riyadh-11551, Saudi Arabia</i></p>

**1:05-2:15**

**Prayer & Lunch**

## Afternoon Session

**K3**

**2:15-3:00**

**Session Chair: Prof. Richard A. Williams**

**Pro Vice Chancellor , Director of Nanomanufacturing Institute, The University of Leeds-England**

**Multiscale Modeling of Transport and Reaction Process in Mesoporous Materials**

	<p><b>Prof. Milos Mark</b> Center for Nonlinear Dynamics of Chemical and Biological Systems, Faculty of Chemical Engineering, Prague Institute of Chemical Technology, Prague, Czech Republic</p>			
	<p><b>S<sub>1</sub>: Synthesis and Characterization of Nanomaterials</b> Session Chair: <b>Dr. Mohammad Abdel Salam, Chemistry Dept. , King Abdulaziz University, Jeddah , Saudi Arabia</b></p>	<p><b>S<sub>2</sub>: Nanobiotechnology</b> Session Chair: <b>Dr. Muhanna Al-Muhanna, Vice Director, Nano Center, KACST</b></p>	<p><b>S<sub>3</sub>: Selected Topics (I) in Nanotechnology</b> Session Chair: <b>Dr. Rabeh Elleithy Sabic Polymer Research Chair, Chemical Engineering Dept. KSU</b></p>	<p><b>S<sub>4</sub>: Selected Topics (II) in Nanotechnology</b> Session Chair: <b>Dr. Abdulrahman Al-Rabia, Chemical Engineering Dept., KSU</b></p>
<b>3:00-3:20</b>	<p>Effect of Process Parameters on the Morphologies and Properties of Non-Catalytically Growth ZnO Nanostructures <b>Ahmad Umar</b> <i>College of Science, Najran University, Najran, Saudi Arabia</i></p>	<p>Effect of Hydrothermal Temperature on the Structural Transformation of Titanate Nanotubes and their Application For Biosensing <b>Shafeeque A. Ansari</b> <i>Department of Physics, Najran University, Najran, KSA</i></p>	<p>Nanomechanical Testing of Various Materials By Nanoindentation <b>Gregory Lance</b> <i>Hysitron Inc., 10025 Valley View Rd., Minneapolis, Minnesota, 55344 USA</i></p>	<p>Synthesis and Modification of Silica Nano Particles for the Determination of Narcotics by Solid Phase Dispersion Extraction <b>Nezar H. Khadry</b> <i>Research Unite Makkah Toxicology Center, Ministry of Health, Makkah, Saudi Arabia</i></p>
<b>3:20-3:40</b>	<p>Continuous Wave Photoluminescence Emitted by Nanostructured Porous Silicon <b>Adwan N. H. Al-Ajili</b> <i>Department of Physics, College of Science, Al-Imam Mohamed Bin Saud Islamic University, Riyadh-11623, Saudi Arabia.</i></p>	<p>Activated Nanostructured Carbon Fibers for In Vivo Measurements of Biological Molecules <b>Kholoud M. Aboul Nour</b> <i>Department of chemistry. King Faisal University Al-Hufouf, Al-Hasa, Saudi Arabia</i></p>	<p>Effect of the Particles Size on Viscoelastic Properties of Polypropylene/Calcium Carbonate Nanocomposites <b>Ahmed A. Elloumi</b> <i>Laboratoire des Systèmes ElectroMécaniques , Ecole National d'Ingénieurs de Sfax, Safx, Tunisia</i></p>	<p>Titanium Dioxide Nano-Particles, Synthesis, Process &amp; Application <b>Sami Bashir</b> <i>Crystal Global, Jeddah- 21414, Saudi Arabia</i></p>
<b>3:40-4:00</b>	<p>Preparation of Crystalline Gold Nanoparticles and Their Prospects in Enhancement of Solar Energy Conversion Efficiency <b>Omar M. Al-Dossary</b> <i>Department of Physics &amp; Astronomy, Science College, King Saud University, Riyadh, Saudi Arabia</i></p>	<p>Formulating Middle-Phase Nano Emulsion Using Mixed Anionic Surfactant and Cationic Hydrotrope <b>Ibrahim H. Kayali</b> <i>Department of Chemistry &amp; Chemical Technology , College of Science and Technology, Al-Quds University, Palestine</i></p>	<p>Capillary Penetration in Corrugated hele-Shaw Cells <b>Abraham Medina</b> <i>ESIME Azcapotzalco, Instituto Politecnico Nacional, Mexico</i></p>	<p>Precise Nanopositioning in Piezoelectric Actuated Using Fuzzy and PID GA-tuned Controller <b>Imron Rosyadi</b> <i>Electrical Engineering Department, College of Engineering, King Saud University, Riyadh- Saudi Arabia</i></p>
<b>4:00-4:20</b>	<p>Synthesis and Characterization of CoPolyimide-APTES End linked Nanocomposite Materials Developed by Sol-Gel Process</p>	<p>Integrated Microfluidic Device With Nanoparticles-Modified Amperometric Sensing Electrodes for the Analysis Selected DNA</p>	<p>Nano-channels Filling Flow of Arbitrary-Cross Section <b>Guadalupe J. Gutierrez</b> <i>ESIME Azcapotzalco, Instituto Politecnico</i></p>	<p>Nanotechnology Application the Ethical Condensation and Challenges <b>M. Bakhotmah</b> <i>College of Medecine, King Abdulaziz</i></p>

	<b>Farman Ali</b> <i>Department of Chemistry, Hazara University Manshera, Pakistan</i>	<b>Abdulilah D. Bani-Yaseen</b> <i>Department of Chemistry, Faculty of Science, Taibah Al-Munawarah, Saudi Arabia</i>	<i>Nacional, Mexico</i>	<i>University, jeddah, Saudi Arabia</i>
<b>4:20-5:00</b>	<b>Poster Session</b>			

Monday April 6, 2009

Morning Session

<p><b>9:00-10:00</b></p>	<p style="text-align: center;"><b>K4</b>  <b>Session Chair: Professor Chunli Bai</b>  <b>The Chinese Academy of Science, Beijing 10060,China</b></p> <p><b>Epitaxial Graphene: Growth, Structure and Molecular Interactions</b>  <b>Prof. Andrew Wee</b>          Dean, Faculty of Science, National University of Singapore, Singapore</p>			
<p><b>10:00-11:00</b></p>	<p style="text-align: center;"><b>K5</b>  <b>Session Chair: Professor Chunli Bai</b>  <b>The Chinese Academy of Science, Beijing 10060,China</b></p> <p><b>Nanoanalytics Based on Nanomechanics Towards Personalized Medical Diagnostic and Preventive Medicine.</b>  <b>Prof. Dr. Christoph Gerber</b>          Director of Scientific Communication, NCCR National Center of Competence for Nanoscience, Institute of Physics, University of Basel, Basel, Switzerland</p>			
<p><b>11:00-11:20</b></p>	<p style="text-align: center;"><b>Break</b></p>			
	<p><b>S<sub>1</sub>: Synthesis and Characterization of Nanomaterials</b>  <b>Session Chair: Dr. Abdulrahman Alwarthan, Kain, KSU.</b></p>	<p><b>S<sub>2</sub>:Nanobiotechnolog</b>  <b>Session Chair: Dr. Khalid Abu-Salah , Kain, KSU.</b></p>	<p><b>S<sub>3</sub>:Selected Topics (I) in Nanotechnology</b>  <b>Session Chair: Dr. Ahmad AlYamani , Vice Director, Nano Center, KACST</b></p>	<p><b>S<sub>4</sub>: Selected Topics (II) in Nanotechnology</b>  <b>Session Chair: Dr. AbdelHamid Ajbar, Chemical Engng. Dept., KSU.</b></p>
<p><b>11:20-11:40</b></p>	<p>Molecular Beam Epitaxial Synthesis of ZnO Nanorods and Characterization  <b>Yasin Raja</b>  <i>Department of Physics and Optical Science, University of North Carolina, Charlotte, NC 28223, USA</i></p>	<p>Nanoscaled Biosensors: Nanotechnology in Early Disease Detection and Personalized Medicine  <b>Matt Trau</b>  <i>Director, Center for Nanotechnology and Biomaterials,Australian Institute for Bioengineering and Nanotechnology, The University of Queensland, Australia</i></p>	<p>Influence of Ambient Condition on the Electrical Characteristics of Nanocrystalline-TiO<sub>2</sub>/P3HT Solar System  <b>Hmoud Al-Dmour</b>  <i>School of Electronics, College of Physical and Applied Science, University of Wales, Gwynedd, LL57 1UT, UK</i></p>	<p>LPCVD Synthesis of Carbon Nanotubes on Different Substrates  <b>Mushahid Husain</b>  <i>Department of Physics, Jamia Millia Islamia(Central University) New Delhi, 110025, India</i></p>
<p><b>11:40-12:00</b></p>	<p>The Effect of Different Thickness of Nano-structured TiO<sub>2</sub> Thin Film to the Structural</p>	<p>Biochemically Functionalized Silica Nanomaterials.</p>	<p>From Nano-Electronics Toward Atomic-Scale Electronics: Attosecond Technology</p>	<p>Towards Realizing Silicon Nanodevices: Manufacturing of Metal Nanowire</p>

	<p>and Optical Properties Prepared by Sol-Gel Spin Coating Method</p> <p><b>Mohd. K. Ahmed</b>  <i>Solar Cell Lab, Faculty of Electrical Engineering, NANO-Sci Tech Center, Institute of Science, Johor, Selangor, Malaysia.</i></p>	<p><b>Tarek H. Afifi</b>  <i>Department of Chemistry, College of Science, Faculty of Science, Hail University, Hail, Saudi Arabia</i></p>	<p><b>Ferenc Krausz</b>  <i>Max-Planck-Institut für Quantenoptik, Garching, Ludwig-Maximilians-Universität München, Germany</i></p>	<p>Contacts to Silicon Nanowires</p> <p><b>Ahmed M. Mohammad</b>  <i>Department Of Chemistry, Faculty of Science, Qassim University, Buraidah 51452, Saudi Arabia</i></p>
<b>12:00-12:20</b>	<p>Study of Surfactants and Post Annealing Temperature on Size of Synthesized Nano-Structure ZnO Using High Power Pulsed Laser Ablation Technique</p> <p><b>Mohammed A. Gondal</b>  <i>Laser Research Lab., Physics Department, King Fahed University of Petroleum &amp; Minerals, Dhahran-31621, Saudi Arabia</i></p>	<p>Interaction of DNA with hydroxyapatite Modified Functionalized Carbon Nanotubes</p> <p><b>Rizwan Wahab</b>  <i>Thin Film Technology Laboratory, School of Chemical Engineering, Chonbuk National University, Chonju-561756, Korea</i></p>	<p>Oil Enhanced Recovery and Design of Responsive Fluids Used in Acid Delivery Using First Principle and Molecular Dynamic Simulation Approach</p> <p><b>Abdullah S. Sultan</b>  <i>Department of Petroleum Engineering, Texas A&amp;M University, College Station, TX-77843, USA</i></p>	<p>Fabrication of Crystalline Organic Nanorods Using Anodized Aluminum Templates: Photomechanical Nanorod Motion on the Micron Scale</p> <p><b>Rabih O. Al-Kaysi</b>  <i>Department of Basic Sciences, College of Medicine, King Saud Bin Abdulaziz University for Health Sciences-National Guard Health Affairs, Riyadh- 11423, Saudi Arabia</i></p>
<b>12:20-12:40</b>	<p>The Changing World of Electron Microscopy</p> <p><b>Tetsuo Oikawa</b>  <i>Visiting Professor at Paris University, Director of JEOL-Europe Application Group, France</i></p>	<p>Interaction of Human Hemoglobin with Nanostructured Materials for Bio-nanotechnological Applications</p> <p><b>Muhammad Sulaiman</b>  <i>Department of Physics, Quaid-i-Azam University, Islamabad, Pakistan</i></p>	<p>Magnetic Correlation and Curie Temperatures of Some Multilayer's of Fcc Fe, Co and Ni on Cu(100) Substrate</p> <p><b>Sayed S. A. Razeq</b>  <i>Department of Physics, Kuwait University,, Safat 13060, Kuwait.</i></p>	<p>Hydrogen Sorption Properties of CNT Doped Y-Si Phase Systems</p> <p><b>Mouaid A. Al-Saadon</b>  <i>Department of General Studies, Jubail Industrial College, Jubail 31961, KSA</i></p>
<b>12:40-1:00</b>	<p>Characterization of Metal Nanoparticles /Conducting Polymer Composite Films Prepared by Radiation Technique</p> <p><b>Abdo Mohd Meftah</b>  <i>Department of Physics, Faculty of Science, University Putra Malaysia, 43400 UPM Serdang, Selangor, Malaysia</i></p>	<p>Antibacterial Activity of Silver Nanoparticles Against Resistant and Non Resistance Clinical Isolates of Different Bacteria</p> <p><b>Shoeb Mustafa</b>  <i>Dept. of Microbiology, J. N. Medical College and Hospital, AMU, Aligarh, India</i></p>	<p>Macro-scale Composite Cables Constructed by Nano-Fibres</p> <p><b>Zhong Zhang</b>  <i>National Center for Nanoscience and Technology, China No. 11 Beiyitia Zhongguancun, Beijing 100190, China</i></p>	<p>Significant Application of Nano-Technology in Environmental Protection and Control</p> <p><b>Ibrahim Al-Mutaz</b>  <i>Department of Chemical Engineering, Engineering College, Riyadh, KSU, KSA</i></p>
<b>1:00-1:20</b>	<p>Synthesis and Thermal Study of Octahedral Silver Nano-Plates in Polyvinyl Alcohol (PVA)</p> <p><b>Abdulkareem Thottoli</b>  <i>Dept. of Physics, Kongunadu Arts Science</i></p>	<p>Enhanced DNA Hybridization on Nano-Structured Silicon Surfaces</p> <p><b>Shalini Singh</b>  <i>Electronic Materials Division, National Physical Laboratory, New Delhi-110012,</i></p>	<p>Electrical Characterization of Al/Polymer/Ag and Al/Polymer Nanocomposite/Ag Schottky Diodes</p> <p><b>Muhammed Hassan Sayyad</b>  <i>GIK Institute of Engineering Sciences and</i></p>	<p>Gas Barrier Property Improvements in Polymer-Clay Nano-Composites</p> <p><b>Abdulhamid A. Abduljabbar</b>  <i>Mechanical Engineering Department, Alfaisal University, Riyadh, Saudi Arabia</i></p>

	<i>College, GN Mills PO, Coimbatore, Tamilnadu, India</i>	<i>India</i>	<i>Technology, Topi 23640 NWFP, Pakistan</i>	
<b>1:20-2:20</b>	Prayer & Lunch			

## Afternoon Session

<b>2:20-3:00</b>	<b>K6</b> <b>Session Chair: Prof. Andrew Wee</b> <b>Dean, Faculty of Science, National University of Singapore, Singapore</b>			
	<b>Why Do Fuel Cells Need Nanotechnology</b> <b>Prof. Nicolas Bardi</b> <b>Research Laboratory on Components for Proton Exchange Membrane Fuel Cells, CEA, LITEN, France</b>			
	<b>S<sub>1</sub>: Synthesis and Characterization of Nanomaterials</b> <b>Session Chair: Mohammed A. Gondal</b> <b>Laser Research Lab., Physics Department, King Fahed University of Petroleum &amp; Minerals, Dhahran, Saudi Arabia</b>	<b>S<sub>2</sub>: Nanobiotechnology</b> <b>Session Chair: Dr. Tarek H. Afifi</b> <b>Department of Chemistry, College of Science, Faculty of Science, Hail University, Hail, Saudi Arabia</b>	<b>S<sub>3</sub>: Selected Topics (I) in Nanotechnology</b> <b>Session Chair: Dr. Khalid Aluhmaizi,</b> <b>Vice Dean for Graduate Studies, KSU</b>	<b>S<sub>4</sub>: Selected Topics (II) in Nanotechnology</b> <b>Session Chair: Dr. Rabih O. Al-Kaysi</b> <b>Department of Basic Sciences, College of Medicine, King Saud Bin Abdulaziz University for Health Sciences- National Guard Health affairs, Saudi Arabia</b>
<b>3:00-3:20</b>	Nanorods and Nanoparticles Obtained by the Reverse Micellar Route: Dielectric and Magnetic Properties. <b>Ahmed Tokeer</b> <i>Dept. of Chemistry, Jamia Millia Islamia, New Delhi 110025, India</i>	Cucurbit[7]uril Nano Carrier for Benzimidazole Drugs <b>Na'il Saleh</b> <i>Chemistry Department., Yarmouk University, Irbid-21163, Jordan</i>	Characterization and Electrical Conductivity of Poly(ethylene glycol)-Poly(acrylonitrile)-Multi-Walled Carbon Nanotubes Composites <b>Salem M. Aqeel</b> <i>Dept. of Chemistry, Faculty of Applied Science, Tamar University, Yemen.</i>	Mechanical Characterization of Materials Surfaces at the Micro and Nano Scale Current Development In Surface Characterization <b>Philippe Kempe</b> <i>CSM Instruments SA, CH-2034 Peseux, Switzerland</i>
<b>3:20-3:40</b>	Small Polaron Hopping Conduction Mechanism in Nanocrystalline Fe Doped LaMnO <sub>3</sub>	Suspended Nanoparticles at Jiddah Atmosphere <b>Omar Ali Al-Zain</b>	Improving the Performance of Carbon Nanotube Transistors Using a Quantum Mechanical Simulation	Redox-Labelled Nucleotides for Molecular Biology and Bioelectronics, <b>Wjatschesslaw Wlassoff</b>

	<p><b>Mohammad W. Khan</b>  <i>King Abdullah Institute for Nanotechnology, KSU, Riyadh-11451, Saudi Arabia</i></p>	<p><i>Department of Chemistry, King AbdulAziz University, Jeddah, Saudi Arabia</i></p>	<p><b>Mahmoud I. Ossaimee</b>  <i>Department of Engineering Physics and Mathematics, Faculty of Engineering, Ain Shams University, Cairo, Egypt</i></p>	<p><i>Biomedical Research Center, Sheffield Hallam University, Sheffield, UK</i></p>
<b>3:40-4:00</b>	<p>Optical and Structural Characterization of Tin Oxide Nanoparticles Synthesized Through Wet Chemical Route  <b>Ameer Azam</b>  <i>Department of Applied Physics, Aligarh Muslim University, Aligarh- 202002, India</i></p>	<p>Chitosan in Nano-delivery and Nano detection Systems  <b>Liangli Yu</b>  <i>Department of Nutrition and Food Science, University of Maryland, College Park, MD, USA</i></p>	<p>Characterizing The Effect of Nano-Additives on the Properties of Polyethylenes  <b>Rabeh Elleithy</b>  <i>Sabic Polymer Research Chair, And Chemical Engineering Department, KSU, Saudi Arabia</i></p>	<p>Investigation and Development of A Model To Characterize SWCNT and MWCNT Carbon Nanotubes  <b>Nazir M. Mustapha</b>  <i>Department of Physics, Imam University, Riyadh, Saudi Arabia</i></p>
<b>4:00-4:20</b>	<p>Development of Novel Diesel Oxidation/Reduction Catalysts Based on Nanotechnology  <b>Osama Ibrahim</b>  <i>Rypos, Inc. Holliston, MA 01746, USA</i></p>	<p>Novel Research Forward Future Development of Molecular Biosensors and Their Applications in Meat Quality Assurance  <b>Abd-Elaziem Farouk</b>  <i>Department of Biology, FOS, UBD, Brunei Darussalam</i></p>	<p>The Heat Transfer Effect of Nanoparticles on Polymerase Chain Reaction  <b>Abdulkhaliq Rasheed</b>  <i>Department of Mechanical Engineering. C. Abulhakaem College of Engineering and Technology. Tamilnadu, India 632509</i></p>	<p>Sol-Gel Synthesis and Characterization of Titanium Oxide-Lead Sulfide Nanohybrid  <b>Mohammedreza Khammohammadi</b>  <i>Chemistry Dept., Faculty of Science, IKIU, Qazvin, Iran</i></p>
<b>4:20-5:00</b>	<b>Poster Session</b>			

Tuesday April 7, 2009

## Morning Session

<p><b>9:00-10:00</b></p>	<p style="text-align: center;"><b>K7</b></p> <p style="text-align: center;">Session Chair: Dr. Adnan Nasir Medical Director Dermatology, Wake Research Associates, Rex Hospital, UNC Chapel Hill, NC, USA</p> <p>Some Properties &amp; Applications of Nano-Metals in Catalysis and Medicine Prof. Mustafa El-Sayed Director, Laser Dynamics Lab, Georgia Institute of Technology, Atlanta, USA</p>			
<p><b>10:00-11:00</b></p>	<p style="text-align: center;"><b>K8</b></p> <p style="text-align: center;">Session Chair: Dr. Adnan Nasir Medical Director Dermatology, Wake Research Associates, Rex Hospital, UNC Chapel Hill, NC, USA</p> <p>Application of Nano-carriers to the Delivery of Active Principles. Considerations About Molecular Design and Cellular Interactions Prof. Nicola Tirelli School of Pharmacy and Pharmaceutical Science, University of Manchester, Stopford Building, Oxford Road, Manchester M13 9PT, UK</p>			
<p><b>11:00-11:20</b></p>	<p style="text-align: center;">Break</p>			
	<p><b>S<sub>1</sub>: Synthesis and Characterization of Nanomaterials</b> Session Chair: Dr. Abdullah Aldwayyan, Physics Dept., KSU.</p>	<p><b>S<sub>2</sub>: Nanobiotechnology</b> Session Chair: Dr. Saleh Al-Wassel, Zoology Dept., KSU.</p>	<p><b>S<sub>3</sub>: Selected Topics (I) in Nanotechnology</b> Session Chair: Dr. Mansoor Al-Hoshan, KAIN &amp; Chemical Engng. Dept., KSU.</p>	<p><b>S<sub>4</sub>: Selected Topics (II) in Nanotechnology</b> Session Chair: Dr. Emaddine Ali, Chemical Engng. Dept., KSU.</p>
<p><b>11:20-11:40</b></p>	<p>Synthesis of CdTe-CdSe Core-Shell Quantum Dots with Tunable Photoluminescence Properties Muhammed M. Salleh</p>	<p>Use of Nanoscaffolds to Advance Tissue Engineering Nureddin Ashammakhi</p>	<p>Nanoscales Optical Characterization of Semiconductors by Using Cavity Ringdown Spectroscopy Waqar A. A. Sayed</p>	<p>Synthesis of Flower-shaped Hydroxyapatite Nanostructures Composed of Nanorods by Electrophoretic Deposition Method</p>

	<i>Institute of Microengineering and Nanoelectronics (IMEN) University of Kebangsaan Malaysia, 3600 UKM Bangi, Selangor, Malaysia</i>	<i>Institute of Science and Technology, Keele University, Stoke-on-Trent Staffordshire UK.</i>	<i>Physics Department, COMSATS Institute of Information Technology, Islamabad, Pakistan</i>	<b>Khalil A. Khalil</b> <i>Mechanical Engineering Department, Engineering College, KSU, Riyadh, Saudi Arabia</i>
<b>11:40-12:00</b>	Synthesis and Structural Properties of Ternary Fe <sub>50</sub> Al <sub>40</sub> Ni <sub>10</sub> Mechanically Alloyed <b>Amara F. Otmani</b> <i>Laboratoire de Recherche sur La Physico-chimie des Surfaces et Interfaces, Universite de Skikda, Skikda , Algeria</i>	Fabrication and Characterization of DNA-lipid Complex Films for Optical Amplifications <b>Abdul-Rahman. S. Haja Hameed</b> <i>P. G. &amp; Research Department of Physics, Jamal Mohamed College, Bharathidasan University, Tirachirapalli, India</i>	Efficient NEGF Simulation of Carbon Nanotube Transistors Using Simplified Two Dimensional Electrostatics <b>Salah El-Din H. Gamal</b> <i>Department of Engineering Physics and Mathematics, Faculty of Engineering, Ain Shams University, Cairo, Egypt</i>	Hydrothermal Synthesis of Nano-Size Zirconia and Thermodynamics of Zr-H <sub>2</sub> O System <b>Husein Saricimen</b> <i>KFUPM Research Institute, P.O.Box 1686, Dhahran- 31261, Saudi Arabia</i>
<b>12:00-12:40</b>	<b>K9</b> <b>Session Chair: Dr. Prof. Nicolas Bardi</b> <b>Research Laboratory on Components for Proton Exchange Membrane Fuel Cells, CEA, LITEN, France</b>			
	<b>Use of Nanoparticles in Biomedical Applications</b> <b>Prof. Mamoun Muhammed</b> <b>Head, Functional Materials Division, and Nano Characterization Center, Royal Institute of Technology (KTH), Electrum 229-Isafjordgaton 22, SE-164 40KISTA( Stockholm ) Sweden</b>			
<b>12:40-1:00</b>	Electron Paramagnetic Resonance Studies of Iron Ions (Fe <sup>3+</sup> -V <sub>0</sub> ) as Nanomaterials in Strontium Titanate Oxide Crystals at 80K <b>Zainab I. Booq</b> <i>Department of Physics, Princess Nora University, Riyadh, Saudi Arabia</i>	Potential Environmental and Health Benefits of Nanotechnology <b>Salaheddine Bendak</b> <i>Dept of Industrial Engineering, King Saud University, Riyadh-11421, Saudi Arabia</i>	The Effect of Adding Selected Electrolytes on the Surface Area of Nano-Sized Silica Particles <b>Nezar H. Khdary</b> <i>Research Unit in Makkah, Ministry of Health, Makkah, Saudi Arabia</i>	Vibrational Analysis of Carbon Nanotubes Under Initial Compression Stress <b>Mahmoud M. Selim</b> <i>Department of Mathematics, Al-Aflaj Community College, KSU, Al-Aflaj, 710-11912, Saudi Arabia</i>
<b>1:00-1:20</b>	Sensor Technology and Nano Devices of Tin Oxide Films Prepared by Sol Gel <b>Mahmoud S. Selim</b> <i>Electron Microscope and thin Films Department, National Research Center, Dokki, Cairo, Egypt .</i>	Increasing the Etoposide Solubility Using the Biopolymer Nano-Carrier <b>Abida Raza</b> <i>Molecular Diagnostic and Research, Nuclear Medicine Oncology &amp; Radiotherapy Institute, Islamabad, Pakistan</i>	Nano-Engineered III-Nitride Wells Based Deep Emitting Diodes <b>Yasin A. Raja</b> <i>Department of Physics &amp; Optical Science, Center for Optoelectronics &amp; Optical Communication, University of North Carolina, Charlotte, NC 28223</i>	ITO/CuPc/NiPc/Al and ITO/NiPc/CuPc/Al Double Junction Photocapacitive Detectors <b>Imran Murtaza</b> <i>Faculty of Engineering Sciences, GIK, Institute of Engineering Sciences and Technology, Topi 23640, Pakistan</i>
<b>1:20-2:15</b>	<b>Prayer &amp; Lunch</b>			

## Afternoon Session

<b>2:15-3:00</b>	<b>K10</b> <b>Session Chair: Prof. Mamoun Muhammed</b> <b>Head, Functional Materials Division, and Nano Characterization Center, Royal Institute of Technology (KTH), Electrum 229-Isafjordgaton 22, SE-164 40KISTA( Stockholm ) Sweden</b> <b>Nanotechnology in Dermatology and Medicine</b> <b>Dr. Adnan Nasir</b> Medical Director Dermatology, Wake Research Associates, Rex Hospital, UNC Chapel Hill, NC, USA			
	<b>S<sub>1</sub>: Synthesis and Characterization of Nanomaterials</b> <b>Session Chair: Dr. Khalid Al-Farhan, Chemistry Dept., KSU</b>	<b>S<sub>2</sub>: Nanobiotechnology</b> <b>Session Chair: Dr. Abdullah Aldahmash, Anatomy Dept., chair, Faculty of Medicine, KSU</b>	<b>S<sub>3</sub>: Selected Topics (I) in Nanotechnology</b> <b>Session Chair: Dr. Mohammed R. Siddique, Chemistry Dept., KSU</b>	<b>S<sub>4</sub>: Selected Topics (II) in Nanotechnology</b> <b>Session Chair: Dr. Yasin Raja</b> <i>Department of Physics and Optical Science, University of North Carolina, Charlotte, NC 28223, USA .</i>
<b>3:00-3:20</b>	Influence of Grain Size and Temperature on Electromagnetic Properties of Nanocrystalline Ferrites <b>Khalid M. Batoo</b> <i>Department of Applied Physics, Aligarh Muslim University, Aligarh-202002, India</i>	Quantum Dots Application for the Detection of Pathogenic <i>Salmonella</i> Strains <b>Munawwar A. Khan</b> <i>Department of Biotechnology, Manipal University Dubai Campus, Dubai City, Dubai-500689, UAE.</i>	Nanotechnology-"An engine of Economic Growth" <b>Kelasur S. Rajashekara</b> <i>JSS College, Mysore-570009, India</i>	Nanotechnology Applications in Petroleum Upstream Operations <b>Mohammed M. Amro</b> <i>Petroleum Engineering Department, College of Engineering, King Saud University, Riyadh, Saudi Arabia</i>
<b>3:20-3:40</b>	Temperature Dependence of Morphology and Oxygen Reduction Reaction ORR Activity for Carbon-Supported Pd-Co Nanoalloy Electrocatalysts <b>Essam F. Abo Zeid</b> <i>Physics Department, Faculty of science, Assiut University, Assiut -71516, Egypt</i>	Architectural Details of Virus Particles by Electron Nanobioimaging <b>Nagwa M. A. Aref</b> <i>Department of Botany and Microbiology, College of Science, KSU, Riyadh-11495, Saudi Arabia</i>	Structure and Optoelectronics Properties of the Mixed Hydrogen-Hydrocarbon Coated Silicon Si <sub>29</sub> Nanoparticles by Non-conventional Tight Binding Method <b>Adil P. Mukhtarov</b> <i>Institute of Nuclear Physics, Academy of Sciences, Tashkent, 100214, Uzbekistan</i>	The Process of Applying Nanotechnology in Saudi Arabia and the Economic Impact <b>Ahmed S. Al-Mogren</b> <i>Computer Technology, Riyadh College of Tech. Technical &amp; Voc. Tr. Co., Riyadh-11544, Saudi Arabia</i>
<b>3:40-4:00</b>	Synthesis and Characterization of CdS Nanoparticles by Chemical Bath	The bio-synthesis of Magnetic Nano-Particles within <i>E.coli</i>	Cobalt Nanofibers Encapsulated in Graphite Shell with Thermally	Hydrogen Storage in CNTs with sol-Gel Catalyst

	<p>Deposition <b>Amanullah F. Mulla</b> <i>Dept. of Physics and Astronomy, College of Science, KSU, Saudi Arabia</i></p>	<p><b>Mai Alzaydi</b> <i>Dept. of Engineering Materials, University of Sheffield, UK</i></p>	<p>Independent Magnetic Properties <b>Nasser A. Barakat</b> <i>Center for Healthcare Technology Dept., Chonbuk National University, Jeonju 561-756, Republic of Korea</i></p>	<p><b>Asgher Kazemzadeh</b> <i>Materials and Energy Research Center, Tehran, Iran</i></p>
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