

ALIGARH NANO-IV INTERNATIONAL 2014

International Conference on Nanoscience & Nanotechnology

March 8-10, 2014

Department of Applied Physics
Aligarh Muslim University (AMU), Aligarh

Venues:

Kennedy Auditorium (For Inaugural Function) &
Conference Room, Department of Physics (For Remaining Sessions)

March 8, 2014

INAUGURAL SESSION & KEYNOTE ADDRESSES

9:00 a.m.	Recitation from the Holy Quran
9:05 a.m.	Welcome Address : Prof S. Alim H. Naqvi, Convener of the Conference
9:10 a.m.	Address by: Prof. Mohibullah, Dean & Principal, Z.H. College of Engg. & Technology
9:15 a.m.	Address by Brig. Syed Ahmad Ali, Pro-Vice-Chancellor, Aligarh Muslim University
9:20 a.m.	Address by Dr. M.K.J. Siddiqui, Director, CST, UP
9:30 a.m.	Address by Prof. Vikram Kumar, Former Director, NPL & Emeritus Professor, IIT, New Delhi
9:35 a.m.	Address by Prof. Jamil Akhtar, Chief Scientist, CSIR-CEERI, Pilani
9:40 a.m.	Message from Nobel Laureate Prof. Ahmad Zuwail (to be read by Dr. Sultana Nahar, OSU, USA)
9:45 a.m.	Remarks by Prof Anil Pradhan, OSU, USA
9:50 a.m.	Remarks about STEM-ER Project by Christopher Carey, Director – Global Gateways, Office of International Affairs, OSU, USA
9:55 a.m.	Address by Chief Guest: Prof. Ashok K. Ganguli, FASc, FNAsc, Director, INST, Mohali, Punjab
10:20 a.m.	Keynote Address: Prof. M. Ishaque Khan, Illinois Institute of Technology, Chicago, USA <i>Functional Nanomaterials: Potential and Promise for Addressing Current Technological Challenges</i>
11:05 a.m.	Address by Lt. Gen. Zameer Uddin Shah, Vice-Chancellor, Aligarh Muslim University
11:10 a.m.	Vote of Thanks: Dr. Shakeel Khan, Chairman, Department of Applied Physics
11:15 a.m.	University Tarana and National Anthem

HIGH TEA (11:20 a.m. – 11:45 a.m.)

SESSION I	Chairman: Prof. Wasi Haider, Convener, STEM-ER Programme, AMU, Aligarh Co-chairman: Dr. Sultana Nahar, OSU, USA
11:45 a.m.	Keynote Address: Prof. M. Bououdina , Nanotechnology Centre, University of Bahrain <i>Overview on Some Selected Nanoscale Materials for Hydrogen Storage</i>
12:15 p.m.	Prof. Lotfia Elnadi , Cairo University, Egypt <i>Silicon Nano-crystalites prepared by Nanosecond Laser Ablation of Si Wafers in Water</i>
12:45 p.m.	Prof. Anil Pradhan , OSU-USA <i>X-ray Irradiation of Heavy Element High-Z Nanomaterials for Cancer Theranostics</i>

LUNCH (01:15 p.m. – 2:15 p.m.)

SESSION II	Chairman: Dr. Zakwan Ahmed, Director, Management Services, DRDO, India Co-chairman: Prof. Imrana Naseem, AMU, India
2:15 p.m.	Dr. S.R. Vadera , Director, DLJ, DRDO, India <i>Tuning of Nanomaterials Properties through simple Chemistry</i>
2:45 p.m.	Dr. R.K Kotnala , NPL, New Delhi, India <i>Wonders of Electron Spin in Spintronics</i>
3:15 p.m.	Dr. Mukesh Sinha , DRDO, Kanpur, India <i>Development and Characterization of Electrospun Nano Fibrous Coated Webs for Defence Textiles Applications</i>

TEA BREAK (3:45 p.m. – 4:00 p.m.)

SESSION III	Chairman: Prof. H. B. Singh, BHU, India; Co-chairman: Prof. P.Q. Rizvi, AMU, India
4:00 p.m.	Prof. Appa Rao Podile , University of Hyderabad, Hyderabad, India <i>Nanoparticles-based delivery of elicitor-active molecules for crop protection</i>
4:30 p.m.	Prof. J.C. Tarafdar , CAZRI, Jodhpur, India <i>Nanoparticle Production by Biological Mode and its Application in Agriculture</i>
5:00 p.m.	Prof. Dr. Hamid R. Khan , IVT, Germany <i>Nanomagnetic Composites</i>

5:30 p.m. to 6:45 p.m.	5:30 p.m.	Prof. A.C. Sharma , University of Baroda, Vadodara, India <i>Static and dynamic conductivities of Graphene Structures</i>	POSTER PRESENTATION (Paper ID 1-100)
	6:00 p.m.	Dr. Sandhya Mishra , BHU, Varanasi, India <i>Deciphering biocontrol potential of silver nanoparticles synthesized by agriculturally important microbes</i>	
	6:30 p.m.	Prof. Shams Khwaja , Constitutional Law Laboratory, New Delhi <i>Joining the Highway of NanoMedicine Regulation: Will India Play Others' Game-Plan?</i>	
DINNER (8:00 p.m.)			
March 9, 2014			
BREAKFAST			
SESSION IV	Chairman: Prof Jamil Akhtar, CSIR-CEERI, Pilani, India Co-chairman: Prof. Mubarak Husain, AMU, India		
9:30 a.m.	Dr. Sultana Nahar , OSU-USA <i>K-alpha resonance fluorescence in multiple ionizations and possible source of monochromatic X-rays</i>		
10:00 a.m.	Dr. D. Das , University of Hyderabad, Hyderabad, <i>Chemical Mechanical Planarization (CMP) - a novel nanotechnology to produce nanostructured surfaces</i>		
10:30 a.m.	Prof. Tara Shankar Pal , IIT, Kharagpur, India <i>Nanocomposites for single molecular level surface enhanced Raman scattering (SERS)</i>		
11:00 a.m.	Prof. Anurekha Sharma , Kurukshetra University, Kurushetra, India <i>Design and Fabrication of MEMS thermal actuators and vibration energy harvester on SOI</i>		
Tea (11:30 a.m. – 11:50 a.m.)			
SESSION V	Chairman: Dr. Sultana Nahar, OSU, USA Co-chairman: Dr. R.K Kotnala , NPL, New Delhi, India		
11:50 a.m.	Prof. Mona Bakr , Cairo University, Egypt <i>Photothermal and Photoelectric Ultrafast response of novel Graphene hybrid nanocomposites: New materials for electronics, solar cell, water desalination and purification</i>		
12:20 p.m.	Prof. Kholmurad Khasanov , MVLMS University, Russia <i>The electromagnetic Super- Compressibility and synthesis of nano materials</i>		
12:50 p.m.	Dr. Rajendra Sonakwade , IUAC, New Delhi, India <i>Electrochemical synthesis of metal-polymer nano-composites</i>		
1:20 p.m.	Prof. PMG Nambissan , SINP, Kolkata, India <i>Review of positron annihilation studies in multiferroic nanocrystalline compound</i>		
LUNCH (1:50 p.m. 2:50 p.m.)			
SESSION VI	Chairman: Dr. Zakwan Ahmed, Director, Management Services, DRDO, India Co-chairman: Prof. Neeraj Khare, IITD, New Delhi		
2:50 p.m.	Prof. Ford Gaol , BINUS University, Indonesia <i>Developing Integrated Weather Knowledge System using Automatic Weather Station Data Logger</i>		
3:20 p.m.	Dr. Fouran Singh , IUAC, New Delhi, India <i>Nano-oxides and their hybrid nanocomposites: Study of Phonon dynamics</i>		
3:50 p.m.	Dr. Neeraj Khare , IITD, New Delhi <i>Nanomagnetic Particles for Enhanced Flux Pinning in Superconductors and for Photocatalysis</i>		
4:20 p.m.	Dr. Priya Johari , SNU, Noida, India <i>Modulation of Properties of Nanomaterials: An Ab-Initio Study</i>		
TEA (4:50 p.m. – 5:10 p.m.)			
SESSION VII	Chairman: Prof. M. Bououdina, Nanotechnology Centre, University of Bahrain, Bahrain Co-chairman: Prof. M. Mobin, AMU, India		
5:10 p.m.	Dr. Ashok Sharma , D.C.R University of Science & Tech., Murthal, India <i>Nanostructured Conducting Polymer Composites as Advanced Electrode Materials for Energy Storage Devices</i>		
5:40 p.m.	Dr. Samendra Singh , SNU, Noida, India <i>Device Physics of high performing organic field-effect transistor and organic photovoltaic devices based on donor- acceptor polymer semiconductors</i>		
6:10 p.m.	Dr. Ran Vir Singh , IVR, Izatnagar- Barielly, U.P. India <i>Evaluation of Vermicompost Quality of Three Garbage Processing Earthworm Species Using Nanotechnology</i>		
6:40 p.m.	Prof. Kamrul Alam Khan , Jagannath University, Bangladesh, <i>Studies on Electrochemistry for Pathor Kuchi Leaf (Bryophyllum) Electricity Generation System</i>		
7:10 p.m. to 8:10 p.m.	7:10 p.m. – 7:30 p.m.	Mr. Anthony Noureldin , General Manager, Nanotech Egypt Co. Inc., Egypt <i>Recent progress and issues of commercialization of nanotechnology</i>	POSTER PRESENTATION (Paper ID 101 onwards)