

Institute of Research & Development

The institute is an attractive centre for generation of ideas, concept and technologies and keeps itself abreast with the modern development and applications in the field of Pharmaceuticals, Chemicals, Materials, Defense, Science and Technology.

The institute focuses on the research to enhance the development in various important areas of science and technology. Institute is engaged in research in the area of Nanotechnology for different types of investigations e.g. faster, more reliable, widely applicable, more rugged, less costly, or less labour intensive tools for identification, collection, preservation and analysis of crime scene evidence (development of miniature or portable forensic testing devices). Institute is also developing tools that can increase discriminatory power of forensic analysis and will provide quantitative or statistical data that can increase power of a march, to identify or characterize new analysis of forensic importance.

Gujarat Science City

The Hon'ble Chief Minister of Gujarat is the Patron-in-Chief of the Science City. The Gujarat Science City (GSC), working under the aegis of the Department of Science & Technology, Government of Gujarat is emerging as an effective and large scale science education and popularization platform in the state and country to promote innovative and experimental activities through hands-on activities and minds-on exposures.

The approach and methodology of the Gujarat Science City is focused on informal community based learning which is different from the formal mode of education. All of the programs are intended to enliven the imagination, foster creativity and develop a spirit of inquiry, especially in young minds. Schoolchildren, during their visit, are discovering the wonders of science and technology and get an access to the most exciting and contemporary form of entertainment regardless of the social stratum, education or age group and create a culture of learning.

The Gujarat Science City is being developed in a phased manner and conceptualized on hexagonal grid patterns that house various theme pavilions. The first phase of the Science City is consisting of the India's First IMAX 3D Theatre, Hall of Spacer, Hall of Science, Hall of Electricity, Energy Park, Children activity Centre, Musical Fountain, Amphitheater, LED Screen, Life Science Park, Planet Earth Pavilion, Wetlands Park, Simulator, Earth Station, Auditorium and basic amenities like parking and cafeteria amid the beautiful landscape of the campus. It is now a popular destination of interest to one and all.

PROGRAM SCHEDULE

- Last date for receipt of Abstract : 30.01.2011
- Acceptance of the Abstract : 15.02.2011
- Last date of Registration : 15.02.2011

- Registration Fees : Rs. 1000.00
- Registration for students & Research Scholars : Rs. 250.00
- Foreign Delegates : \$ 500.00

PATRON

Dr. J. M. Vyas
Director General
Gujarat Forensic Sciences University, Gandhinagar

Advisory Committee

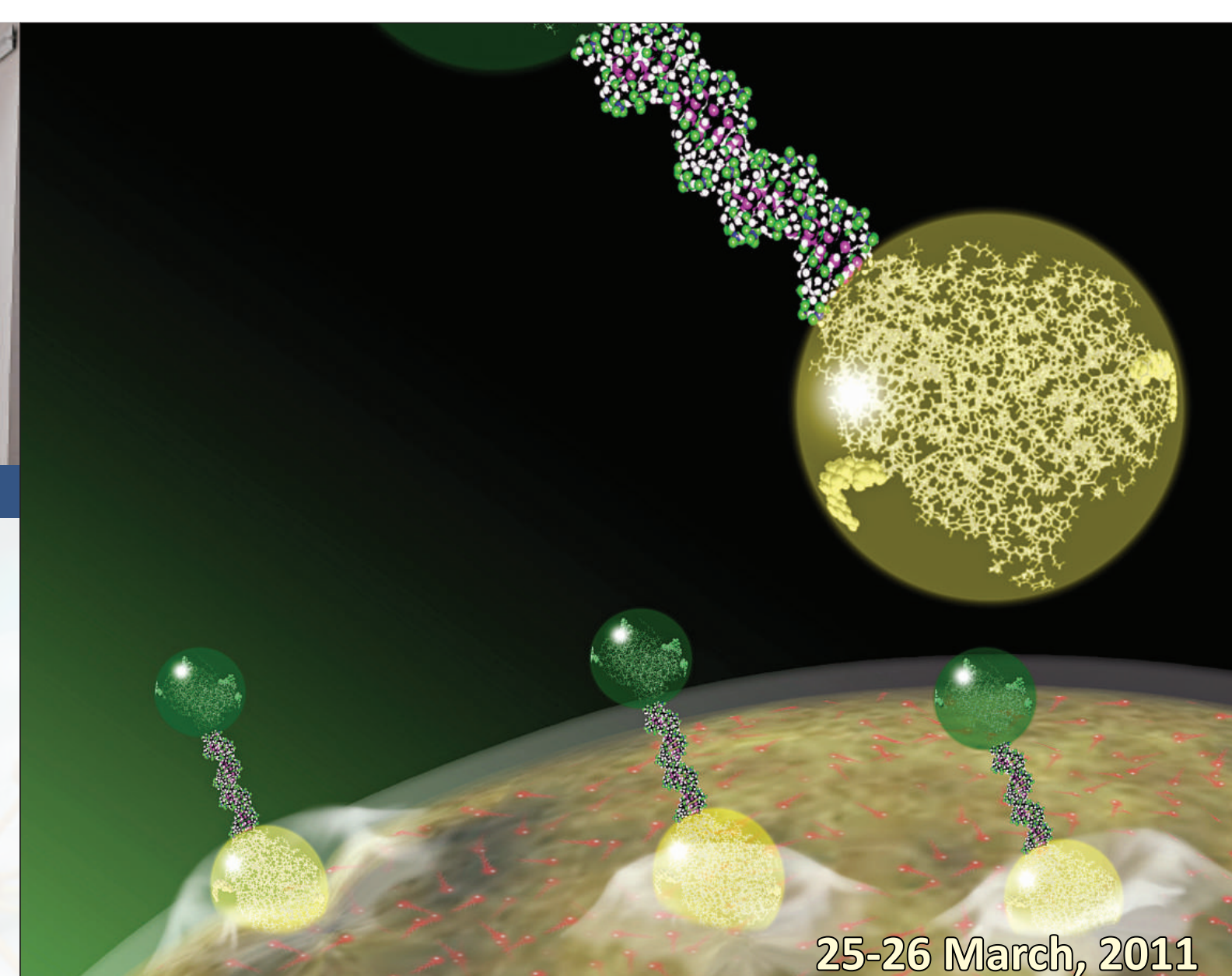
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- | | | |
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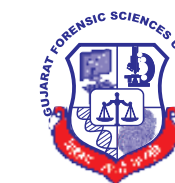
CONVENOR

Prof .Y K .Agrawal
Director
Institute of Research and Development
Gujarat Forensic Sciences University ,Gandhinagar.
Email: drykagrawal@yahoo.com



25-26 March, 2011

International Conference on FORENSIC NANOTECHNOLOGY



Organized by
Institute of Research and Development
Gujarat Forensic Sciences University
Gandhinagar-382007



Sponsored by
Gujarat Council of Science City
Government of Gujarat, Ahmedabad



International Year of Chemistry-2011

25th & 26th March, 2011

INTERNATIONAL CONFERENCE ON FORENSIC NANOTECHNOLOGY

Nanotechnology is one of the newest and fastest growing areas in science and engineering. The subjects arise from the convergence of electronics, physics, chemistry, and biology and material science to create new functional systems of nanoscale dimensions. By virtue of their interdisciplinary nature, rapid advances in nanoscale science and technology can only thrive in a collaborative environment in which faculty and students from different disciplines discuss ideas, work together, and share their expertise views. The conference aims to share knowledge in a specialized field of Forensic Nanotechnology and its applications in Chemical & Bio-chemical terrorism, crime scene investigation, pharmaceutical sciences, brand protection, toxicology etc.

Nano assembly consists of Supramolecules which play increasingly important roles, ranging from design of extraction agents for environmentally toxic species to the development of new pharmaceuticals. Supramolecular assemblies, constructed using single electro- or photoactive molecules as building blocks, offer a striking way to create material whose organized architecture makes them suitable for developing molecular electronic devices. To achieve this objective, one must not only be able to direct the fabrication of the assembly and characterize it fully, it is also important to be able to address the nanoscopic structure i.e. connect the every day macroscopic and nanoscopic worlds.

The main objective of the conference is to bring together the academicians, researchers and industrialists of multi-disciplinary areas for deliberations on the synthesis, recognition, analytical applications and also to have a direct interaction between host and guest, and Forensic Science and Technology.

The primary objectives of this International Conference of Nano Forensic Sciences are:

1. To provide a forum to the students and teachers to pursue their natural curiosity and quench their thirst for creativity in frontier areas of science and technology.
2. To simulate scientist temper through use and internalization of the 'method of science' i.e. observation, collection of data, experimentation, analysis and then arriving at conclusion.
3. To develop a centre of excellence of nanotechnology for imparting graduate, postgraduate, doctoral and postdoctoral level of education in Forensic Sciences, and meet the human resource needs of the fast expanding pharmaceutical industries, educational institutions and research laboratories.
4. To promote research in hi-tech emerging and thrust areas of medicine and human health care.
5. To establish excellent industry-academy interaction and undertake collaborative R&D projects.
6. To undertake research projects sponsored by various funding agencies like CSIR, ICMR, UGC, DST, DBT etc.
7. To regularly conduct continuing education programmes for the teachers, academicians and scientists, in the field of nanoforensic technology

The scientific program of conference will provide a unique opportunity in the new emerging areas of nanotechnology and supramolecules.

- Synthesis, characterization and conformation of Crown ether, Calixarenes, Rotaxanes, Fullerenes, Nano tubes etc. and their application to Forensic Science.
- Molecular recognition
- Coordination Chemistry, Drug Designs
- Energy transformation, kinetics and catalytic reactions
- Solvent extraction and separation techniques
- Analytical and industrial potentialities
- Pharmaceutical Technology, Forensic Pharmacy

The conference consists of the invited lectures and papers by the various institutions and the deliberation and discussion will lead to new dimension of nanotechnology on synthesis, bio-inorganic, organic and bio mimetic chemistry including host-guest chemistry with cations and anions. Seminars will also give the opportunity to young scientists, research scholars of various Forensic Laboratories and Departments if participate and launch their knowledge.

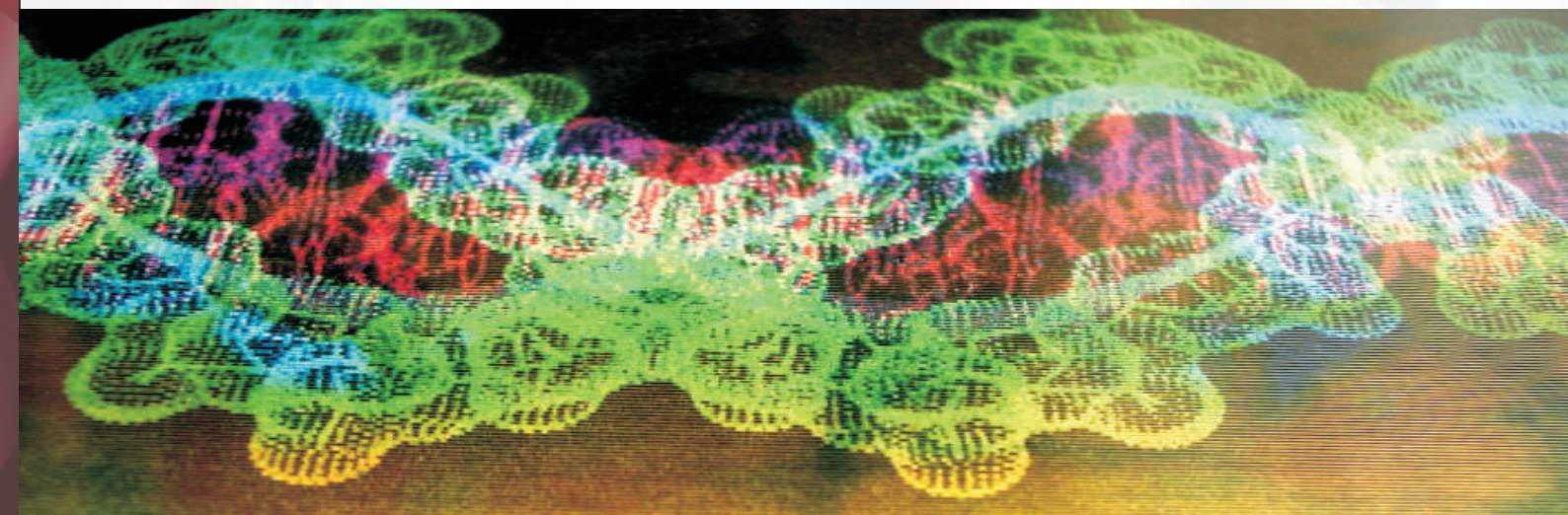
The Research Scholars and post graduate students can submit papers for Poster Session, where best papers will be awarded.

The Host University

The Government of Gujarat has established a super specialized University which is unique and first of its kind in the world for conducting regular / Post Graduate courses in the field of Forensic Science, Behavioral Science, Research & Development, Criminology and other allied areas. It is situated at Gandhinagar, the capital of Gujarat which is a vibrant, industrious, safe and business friendly state. It is being set up on 50000 sq.mtrs of land near the existing Directorate of Forensic Science building at Gandhinagar, which is a linked city with Ahmedabad.

Ahmedabad a major city of Gujarat, is also an industrial and educational hub having esteemed institutes such as IIM, IIT, NID, NIIFT, CEDI and others. Ahmedabad and Gandhinagar are very well connected with other parts of the country and the world. The International Airport is hardly 20 kilometers away from the University.

The Government of Gujarat has established this University by passing an Act in the Legislative Assembly on 28th September, 2008. Consequent to this, Dr. J.M. Vyas has taken over as the first Director General (Vice Chancellor) of the University.



International Conference on
FORENSIC NANOTECHNOLOGY

25-26 March, 2011

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