

International Conference on Supramolecules and Forensic Nanotechnology

23rd & 24th February, 2018

Organized by

GFSU

NAAC ACCREDITED 'A' GRADE



Gujarat Forensic
Sciences University

Knowledge | Wisdom | Fulfilment

Institute of Research and Development, Gandhinagar

Jointly with



Science and Engineering
Research Board
New Delhi



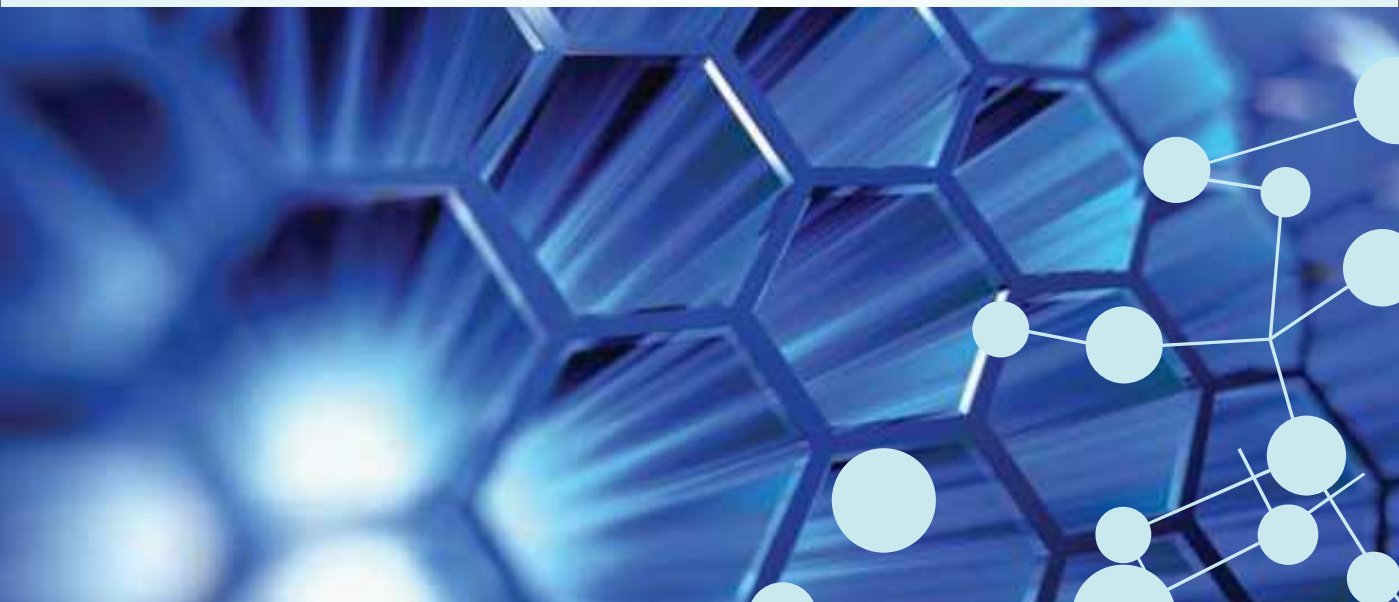
Gujarat Council of Science
and Technology,
(GUJCOST), Gandhinagar, Gujarat

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Supramolecules deal with interaction between molecules and have become the fundamental areas of Chemistry, Physics, Pharmaceuticals, Engineering, Forensic and Nanotechnology. It plays increasing important role, ranging from the design of extraction agents for environmentally toxic species to the development of nano medicines. Supramolecular assemblies constructed using single electro or proactive molecules as building blocks, offers a striking way to create material who's organized architecture molecular electronic devices. Nanotechnology is one of the newest and fastest growing areas in science, engineering and forensic. By virtue of its interdisciplinary nature, rapid technology in which faculties and students from different discipline discuss ideas, work together and share their expertise views. 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 everyday macroscopic and nanoscopic worlds.

The main objective of the International Conference is to bring together the academicians, researchers and industrialists of multi-disciplinary area for deliberations on the synthesis, recognition, analytical applications and also to have a direct interaction between host and guest, Supramolecules with cation and anions.



Objectives

The primary objectives of this International Conference of Supramolecules and Nanotechnology are:

- 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.
- 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.
- To develop a centre of excellence for imparting graduate, postgraduate, doctoral and postdoctoral level of education in Pharmacy, Chemistry, Nanotechnology, Environment, Defense, Food Science and Forensic Science to meet the human resource needs of the fast expanding pharmaceutical industries, educational institutions and research laboratories.
- To promote research in hi-tech emerging and thrust areas of medicine and human health care.
- To establish excellent industry-academy interaction and undertake collaborative R&D projects.
- To undertake research projects sponsored by various funding agencies like CSIR, SERB, ICMR, UGC, DST and DBT, GUJCOST etc.
- To regularly conduct continuing education programmes for the teachers, academicians and scientists.

The scientific programme of International 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 allied and Forensic Sciences.
- Molecular recognition
- Coordination Chemistry, Drug Design
- Energy transformation, kinetics and catalytic reactions
- Solvent extraction and separation techniques
- Analytical and industrial potentialities
- Nano Energetic, Fuel Cells Explosives
- Pharmaceutical Technology
- Nanotechnology in defense and crime scene
- **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.

Ahmedabad a major city of Gujarat, is also an industrial and educational hub having esteemed institutes such as IIM, IIT, NID, NIFT, 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.



Institute of Research & Development

The Institute was founded in 2009, is an attractive centre for generation of ideas, concepts and technologies and keeps itself abreast with the modern development in application of Science and Technology in the field of Forensics.

The Institute focuses on the research to enhance the development in various important areas. Institute is engaged in research in the area on Nanotechnology based methods 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 the discriminatory power of forensic analysis and will provide quantitative or statistical data that can increase the power of a march, to identify or characterize new analysis of forensic importance.

The Institute is actively collaborating with premier institutes and industries of both National & International repute .More than 200 publications including research articles, reviews, patents, monographs, book-chapters of national and international repute during last 7 years span reveal its dedication towards a research center of excellence. This high-quality, high-performance research environment, combined with a uniquely bottom-up approach to scientific innovation, has enabled the Institute to foster an environment in which researchers are able to thrive.

The scenario of placement is quite luminous. Our post-graduate and doctoral students are the most sought-after in industry, academia and research and for varied professional including legal services and postdoctoral positions in abroad.

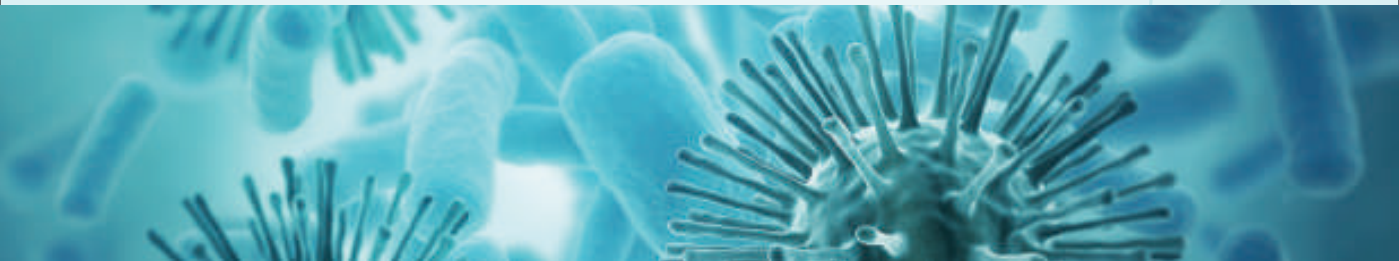
The institute also offers masters (MSc, MS and MTech) programs on Food Technology, Forensic Pharmaceutical science, Forensic Nanotechnology, Chemistry, Environmental Science, Medical Devices and Forensic Structural Engineering with a focus on their application in Forensic technology for crime scene investigation.

Programme Schedule

- Last date for receipt of Abstract : 29th January,2018
- Acceptance of the Abstract : 3rd February ,2018
- Last date of Registration : 12th February,2018

Registration Fees

- Registration Fees : Rs. 1500/-
- Registration for students & Research Scholars : Rs. 750/-



PATRONS

Dr. J.M. Vyas
Director General,

Gujarat Forensic Sciences University, Gandhinagar

ADVISORY COMMITTEE

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- Prof. T. Tsukuda (University of Tokyo)

CONVENER

Prof. Y. K. Agrawal

Director-Institute of Research and Development
Gujarat Forensic Sciences University, Gandhinagar

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