

**INTERNATIONAL CONFERENCE AND WORKSHOP ON**  
**“Medical and Pharmaceutical Nanotechnology:**  
**Latest developments, practical considerations and applications”**

**25-26<sup>th</sup> September, 2008**

**A conference to explore the theoretical, practical and research applications of nanotechnology in medicine**

Greetings!

It is our great pleasure to inform and invite you to the International conference and workshop on “Medical and Pharmaceutical Nanotechnology: Latest developments, practical considerations and applications” to be held on 25-26<sup>th</sup> September, 2008 at Department of Pharmaceutical Engineering and Technology, Bharathidasan Institute of Technology, Anna University Tiruchirappalli, Tiruchirappalli, Tamil Nadu, India.

Anna University Tiruchirappalli, Tiruchirappalli is one of the new Technical Universities that has been established by the Government of Tamil Nadu at Tiruchirappalli, a city of rich cultural heritage with a host of reputed educational institutions and known as Rock Fort city with a view to impart quality student centered technical education by striving hard for continuous development and improvement in learning, research and developmental activities so as to produce proven technocrats. The University carries out teaching, research and extension services through its centres, departments and constituent and affiliated colleges. It also works to foster partnerships with academic and industry experts to provide educational opportunities and training.

Anna University Tiruchirappalli, Tiruchirappalli has carved a niche for itself in providing technical education in the disciplines that are rare of their kind in our country. Aiming at excellence the University offers UG, PG and research programmes in Pharmacy, Pharmaceutical Engineering and Technology, Biotechnology, Petrochemical Technology, Information Technology, Automobile Engineering, Software Engineering, Computer Science and Engineering, Electronics and communication Engineering, Electrical and Electronics Engineering and Energy Engineering and produces competent engineers with the knowledge in science and technology to encounter future challenges. It has a vision to extend other branches of engineering courses in its campus.

The explosive advances in science and technology have revolutionized the research and discovery of new life saving drugs. These advances have also radically changed the pharmaceutical manufacturing and delivery systems increasing the challenge of designing optimal manufacturing processes. To successfully meet this challenge, you must be fluent in the language of basic chemical process engineering principles and knowledgeable in the engineering science and unit operation of pharmaceutical manufacturing made the genesis of Pharmaceutical Engineering and Technology. Over the past decade, a handful of pharmaceutical engineering programs have popped up globally. It is our pride to say that for the first time in India, such a degree programme is being initiated and conducted by Anna University Tiruchirappalli, Tiruchirappalli – 620 0 24.

This international conference and workshop on Medical and Pharmaceutical Nanotechnology will promise to be an exciting opportunity to hear about the latest initiatives and research avenues in medical nanotechnology. This Conference provides an ideal venue for interaction between students, industrialists, engineers, scientists and clinical investigators conducting research relevant to nanotechnology and the life sciences. The Conference would be especially attractive to beginners, research investigators and students who want to learn the theoretical developments, hands on practical experience in the formulation, characterization and evaluation medical nanotechnology and about the latest funding opportunities relevant to nanoscience and nanotechnology.

Experts will discuss and provide hands on practical training on initiatives relevant to nanoscience and nanotechnology. Global and national students /researchers will be presenting their work in areas such as nanomedicine, pharmaceutical sciences, nanochemistry and nanosynthesis. Conference participants will have the opportunity to interact with scientists and innovators from industrial representatives. We are inviting distinguished scientists/ professors/ industrialists as speakers, interested persons and researchers or scholars as registered participants to learn, share and interact each other. We look forward you to join us in Anna University Tiruchirappalli, Tiruchirappalli, Tamil Nadu, India for this International conference on 25 and 26<sup>th</sup> September, 2008.

**For more details please contact**

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### **Few lectures scheduled are as follows....**

1. Dr. Yousef Haik, Professor and Director, Center of Research Excellence in Nanobiosciences, University of North Carolina-Greensboro, USA  
Title: Molecularly Imprinted Polymer (MIP) Systems for Drug Delivery and Two Different Applications
2. Dr. Manikkam Sivakumar, Associate Professor, University of Nottingham, Malaysia  
Title: Nanocavitation
3. Dr. Wang, Professor, Shanghai Institute of Applied Physics, Chinese Academy of Sciences (SINAP), China  
Title: Preparation and surface modification of magnetite nanoparticles and its application to the diagnosis and therapy of tumor
4. Dr. K.Ruckmani, Professor, Anna University, Tiruchirappalli  
Title: Chitosan based nanoparticulate system for inhibition of inflammation in asthma.
5. Dr. N.Subramanian, Lecturer, Anna University, Tiruchirappalli  
Title: Nano dispersed system for ophthalmic drug delivery
6. Dr. Dhirendhar Bhadur, Professor in Material Science, IIT Bombay, Mumbai  
Title: Yet to confirm
7. Prof. G.K. Khuller, CSIR Emeritus scientist, PGIMER, Chandigarh - 160 012. India  
Title: Evolving vistas in nanotechnology-based anti-tubercular chemotherapy
8. Prof.N.K.Jain, Professor, Dr.H.S.Gour University  
Title: Functional Polymeric Nanoparticles in Nanomedicine

### **Practical training and demonstration on the following equipments...**

Ultrasonicator

Raman Spectrophotometer

Flowcytometer

Other equipments used for nanoparticles characterization using imaging techniques like nanophotometer, AFM etc