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RESOURCE PERSONS FOR TECHNICAL LECTURES



DR. S. ANGAPPANE

Scientist F,
Centre for Nano and
Soft Matter Sciences
(CeNS), Bengaluru

Time: 10:00 to 11:00 Hrs



DR. V. SIVAKUMAR

Dept. of Physics,
UCE, BIT Campus,
Anna University,
Tiruchirappalli

Time: 11:30 to 12:30 Hrs

Bharat Ratna Prof. C.N.R. Rao, FRS
Chief Mentor, Vision Group on Nanotechnology

National Research Professor;
Linus Pauling Research Professor;
Honorary President, JNCASR



About "Nano Jatha"

The workshop under the umbrella of "Nano Jatha" - Lecture series and Exhibition, is one of the pre-events to the flagship of mega event, the 13th edition of "Bangalore India Nano 2024" which will be held during 1-3 August 2024 under the guidance of Vision Group on Nanotechnology headed by Prof. C. N. R. Rao, FRS, Linus Pauling Research Professor and Honorary President, JNCASR.

The technical program of the Nano Jatha starts with a Video Show (30 min. approx.) highlighting Nanoscience and Technology, followed by two Technical Lectures of 45 min each, Interactive Sessions with the audience, Quiz Contest (supplementing the main quiz conducted during 13th Bengaluru India Nano), and Science Competitive Events.

Exhibition of Nano Instrumentations

Demonstration of the nano science related experiments specially prepared (and provided) for the purpose. The exhibition has several live demonstrations.

Time: 13:30 to 15:30 Hrs.
Venue: Physics Lab, Library Block, AURCT.

EXHIBITS INCLUDE

- Faraday's sol: Gold nanoparticles
- Gilding: galvanization reaction between metals
- Piezoelectric pavement for futuristic applications
- Electricity from fruit juice
- Humidity sensor for real world applications
- Pencils to electrical circuits: Graphene holds the key
- Electrochromically active glass
- Microfluidic smart window
- Breaking lithium barriers: a sustainable sodium-ion battery

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Anna University Regional Campus, Tirunelveli

DEPARTMENT OF SCIENCE AND HUMANITIES

SCIENCE CLUB

in association with

**Centre for Nano and Soft Matter Sciences
(CeNS), Bengaluru**

(an autonomous research institute under
Department of Science and Technology (DST))

and

**Karnataka Science and Technology
Promotion Society (KSTePS)**

Organizes

A ONE-DAY WORKSHOP ON
"NANOSCIENCE & TECHNOLOGY" AND
"NANO EXHIBITS"



25th May 2024

Coordinators

Dr. S. Athimoolam

HOD, Dept. S & H, AURC, Tirunelveli

Dr. J. Jude

AP (Sr.Gr.)/Physics, Dept. S & H, AURC, Tirunelveli

Co-coordinator

Dr. R. Ramasubramanian

AP(Sr.Gr.)/Chemistry, Dept. S & H, AURC, Tirunelveli

Venue
Conference Hall, Library Block
AURC, Tirunelveli

About CeNS & KSTePS

The Centre for Nano and Soft Matter Sciences (CeNS) is an autonomous research institute under the Department of Science and Technology (DST), Government of India. DST provides core support to the Centre in the form of a grant-in-aid for conducting basic and applied research in nano and soft matter sciences. CeNS inspires new ideas and probably lead to path-breaking scientific achievements. The Centre is engaged in materials research at all relevant length scales. Specifically, the current activities are focused on a variety of metal and semiconductor nanostructures, liquid crystals, gels, membranes and hybrid materials. It has close interactions with many Institutions and Industry, in India and abroad. The Centre was established in 1991 by an eminent liquid crystal scientist, Prof. S. Chandrasekhar, FRS. It was then known as Centre for Liquid Crystal Research, a registered scientific society in Karnataka with the objective to build a centre of excellence in line with the international trend those days on liquid crystal materials and devices. In 1995, it became an autonomous institute under the Department of Electronics (DOE), Government of India and in 2003, was brought under DST. Subsequently in the year 2010, the name was changed to Centre for Soft Matter Research. Recently in 2014, the Centre has further widened the scope of research activities to embrace nanoscience and technology and is now known as Centre for Nano and Soft Matter Sciences (CeNS). It is being mentored by Nano-Mission of the Government of India.

Karnataka Science and Technology Promotion Society (KSTePS) is an autonomous organization of Department of Science and Technology (DST), Govt. of Karnataka established under the Societies Registration Act 1960 in 2013. KSTePS aims at serving as a mechanism for supporting the preparation and implementation of policy initiatives of Department of Science and Technology and act as a nodal agency in channelizing the funding and coordinating the programmes of the Department across the State. It has also been entrusted to identify priority areas of science and technology, which are useful for long term development of the State towards developing core competency in such advanced areas. Presently, KSTePS is Chaired by Additional Chief Secretary to Govt., Department of Electronics, Information Technology, Biotechnology and Science & Technology with members drawn from various line Departments. Director (Technical), Electronics, Information Technology, Biotechnology and Science & Technology is the Member Secretary and Managing Director of KSTePS.

EVENT - I

QUIZ CONTEST

Time: 13:30 to 14:30 Hrs.

(Reporting time by 13:00 Hrs)

Venue: Conference Hall, Library Block, AURCT.

Registration Link:

<https://bit.ly/NJ-QUIZ>



Instructions:

- This event aims at inculcating interest in Nano science and technology amongst students and also for assessing the knowledge about basic science and latest technologies.
- The quiz will be conducted in two phases. The first phase will be the preliminary round. This will be in the form of written test.
- The top Four teams of the preliminary round will be shortlisted for the final round. The final round will be open oral quiz format.
- The topics covered will be from various facets of Nano science.

EVENT - III

Extempore NANO SCIENCE ELOCUTION

EVENT - II

Spot PAINTING Competition on NANO TECH.

Time: 14:30 to 15:30 Hrs. (Reporting time by 14:15 Hrs)

Venue: Conference Hall, Library Block, AURCT.

Time: 13:30 to 15:30 Hrs. (Reporting time by 13:15 Hrs)

Venue: Physics Lab, Library Block, AURCT.

Instructions:

- This event aims at improving students' oratory skills as well as testing their knowledge about Nano science.
- It is an individual event.
- Students are expected to speak for 3 (three) minutes on a topic picked 10 minutes earlier.
- Topics will be related to Nano Science and Scientific Facts. Best talk will be selected for the award of prizes based on the content, coherence and oratory skill.
- Students must not bring any reference materials / books. Students must not use any presentation material while presenting their topic. This event is entirely oratorical in nature.
- Change of assigned topic is not allowed.

Instructions:

- Students shall bring necessary drawing and painting materials (Pencils, Colours, Crayons, Brushes etc.)
- Drawing sheet of size 450 mm x 350 mm will be supplied by the organizers.
- The topics for spot painting will be given prior to the event (@ 13:30Hrs).

Registration Link for Events II & III:

<https://bit.ly/NJ-EPC>

For further clarifications:



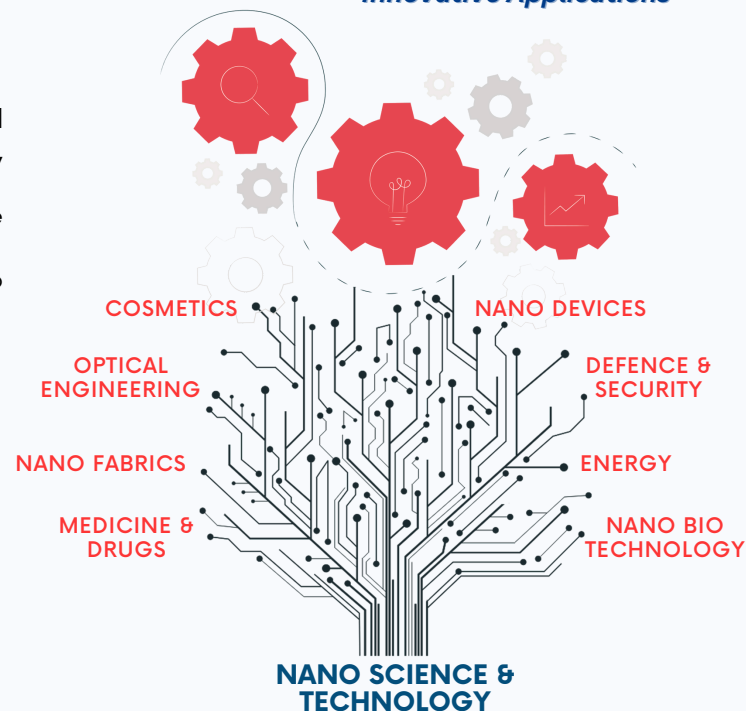
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Innovative Applications



Resource Partners & Contributors:

CeNS-Bengaluru, IISc-Bengaluru, JNCASR-Bengaluru, IISER-Berhampur, IIT-Delhi, SASTRA-Tanjavur