



11th National Conference on Recent Trends in Materials Science and Technology - 2024

25 – 27 June 2024

Organised by
Department of Chemistry
Indian Institute of Space Science and Technology
Thiruvananthapuram



In collaboration with
MRSI Thiruvananthapuram Chapter

IIST Thiruvananthapuram



Multipurpose Hall
IIST



25-27 June 2024



ncmst2024@iist.ac.in



<https://events.iist.ac.in//ncmst2024/>

Dates to Remember

- Last date for Submission of Abstracts-**May 31, 2024**
- Announcement of selected Abstracts – **June 02, 2024**
- Last date for Registration – **June 10, 2024**

The focus theme of NCMST – 2024 is 'Materials for Sustainability.' Innovative materials are crucial for generating efficient energy and promoting a cleaner environment and hence a vital component of science and technology in building a sustainable world. Developing affordable materials for energy, environment and healthcare applications are crucial for achieving a sustainable society. The NCMST-2024 focuses on developing a comprehensive grasp of the research challenges in sustainable materials. The conference consists of Plenary and Invited lectures by the pioneers in Materials Science and Technology and Oral/poster presentations by young researchers.

Areas covered in the conference

Nanomaterials	Sensors
Composite materials	Smart and functional materials
Energy materials	Soft and biomaterials
High-temperature materials	Advanced sustainable materials
Metals and alloys	Emerging green processes
Optoelectronic materials	Recycled materials
Polymers and blends	Materials circular economy

Speakers

A Ajayaghosh, CSIR-NIIST
Benny K George, *formerly* VSSC
C Anandharamakrishnan, CSIR-NIIST
Dona Mathew, VSSC
John Philip, IGCAR Kalpakkam
Mahesh Hariharan, IISER Tvm
Manual Stephen, CSIR-CECRI
Pramod Gopinath, CUSAT
Rajan T P D, CSIR-NIIST
Ramesh L Gardas, IIT Madras

Reji Philip, RRI Bangalore
S Sampath, IISc Bangalore
Sabu Thomas, MG University
Siby Varghese, RRII Kottayam
Sirshendu De, IIT Kharagpur
Sreekala M S, MG University
Subi George, JNCASR
Subodh G., Univ of Kerala
S V S Narayana Murty, LPSC
T Pradeep, IIT Madras

Congratulations!
on the occasion of the celebration
of 60 years of sunshine



Prof. Kuruvilla Joseph PhD FRSC
Outstanding Professor
Dean (Academics) and Registrar
IIST Thiruvananthapuram

*A felicitation function is scheduled
on June 26, 2024 at 5:30 pm*

Patrons

Shri S Somanath, Secretary DOS/Chairman, ISRO
Dr B N Suresh, Chancellor, IIST
Dr S Unnikrishnan Nair, Director, IIST and VSSC

Advisory Committee

Dr Chandrasekar A, Dean (R&D), IIST
Dr Raju K George, Dean (Student Activities), IIST
Dr C S Narayanamurthy Dean (IPR), IIST

Organising Committee

Dr Kuruvilla Joseph, Registrar & Dean
(Academics), IIST (Convenor)
Dr K Y Sandhya, IIST (Co-Convenor)
Dr Nirmala Rachel James, IIST
Dr K Prabhakaran, IIST
Dr Gomathi N, IIST
Dr K G Sreejalekshmi, IIST
Dr J Mary Gladis, IIST
Dr Jobin Cyriac, IIST
Dr Shaiju S Nazeer, IIST
Dr SVS Narayana Murty, LPSC
Dr Srinivasan A, CSIR-NIIST
Dr Jayasree RS, SCTIMST

Correspondence

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**Indian Institute of Space Science and Technology (IIST)
Thiruvananthapuram**

Indian Institute of Space Science and Technology (IIST), a Deemed to be University under Section 3 of the UGC Act 1956, functions as an autonomous body under the Department of Space (DoS), Government of India and is the first of its kind in the country, to offer high-quality education in undergraduate, post-graduate, doctoral and post-doctoral levels in areas relevant to space sciences, space technology and space applications. The institute has the enviable reputation of having had Dr. A.P.J. Abdul Kalam, the renowned technocrat and the former President of India as its very first Chancellor. Dr. B.N. Suresh, the founder Director of IIST is the current Chancellor of IIST. The institute recognizes the importance of research in developing future technologies and applications of space research. Faculty members of IIST closely collaborate with scientist/engineers of ISRO through joint research projects in the field of space science and technology.

Department of Chemistry

Department of Chemistry offers PhD and M Tech programmes in Materials Science and Technology, where strong foundations are laid to facilitate the students to design and develop novel materials and processes to meet future technological challenges. The department also offers courses for B.Tech students. Since its inception, the Department of Chemistry has done pioneering research in the field of materials. biomaterials, smart materials, high temperature materials, composites, etc. The department has established state of the art research facilities under “Centre for Nanoscience and Energy materials” to facilitate the development of novel materials for wide range of applications including sensors, electronics, batteries, supercapacitors, drug delivery and EMI shielding.

MRSI-Thiruvananthapuram Chapter

Materials Research Society of India (MRSI) is an interdisciplinary professional body, based in Bengaluru, which is dedicated to stimulate research in the area of materials and their applications. The MRSI-Thiruvananthapuram chapter is one of the most active chapters of MRSI and has members from leading institutes in Kerala such as IIST, VSSC, NIIST, SCTIMST, IISER, CUSAT, MG University, University of Calicut, University of Kerala and NIT Calicut.

Registration

Online Registration
Payment is via E-payment
<https://events.iist.ac.in/ncmst2024/>

- Registration Fee*
- Student: Rs. 1500 + 18% GST
 - Faculty/Scientist: Rs. 2000 + 18% GST
 - Industry: Rs. 5000 + 18% GST

*Registration fee includes food and registration kit

Abstract submission

- Abstract not exceeding 200 words can be submitted.
- Best poster awards will be presented in different themes.
- Further details are available in the website: <https://events.iist.ac.in/ncmst2024/>

Accommodation and Transportation

- Hostel accommodation will be provided within the IIST campus on nominal charge.
- Bus conveyance will be provided for pick up from Thiruvananthapuram Central Railway station and drop back after the conference.

Lab visits

Participants have an opportunity to visit the following laboratories.

- Microscopy and spectroscopy labs- Dept. of Chemistry
- Astronomical observatory, Geology lab, Remote sensing lab- Dept. of Earth & Space Sciences
- Atomic and molecular physics lab- Dept. of Physics

NCMST 2024 Co-Convenor

Prof K Y Sandhya
Head, Department of Chemistry, IIST

