



**DEPARTMENT OF HUMANITIES & SCIENCES (PHYSICS)**

**In Association with**

**Indian Association for Crystal Growth (IACG)**

**Indian SpectroPhysics Association (ISPA)**

# INTERNATIONAL CONFERENCE ON **MODERN FUNCTIONAL MATERIALS (ICMFM-2025)**

Organized by

Functional Materials Research Laboratory (FMRL)

**11.09.2025 & 12.09.2025**



Sri

## **SAI RAM ENGINEERING COLLEGE**

*An Autonomous Institution*

Sai Leo Nagar, West Tambaram, Chennai - 600 044. [www.sairam.edu.in](http://www.sairam.edu.in)



## ABOUT THE INSTITUTION

Sri Sai Ram Engineering College, Chennai was established in the year 1995 by MJF. Ln. Leo Muthu, Chairman of Sapthagiri Educational Trust, is a non-profitable and non-minority institution. With a clear vision, a strong mission and dedicated leadership, the college has risen to become one of the top educational institutions in the country. Since its establishment, it has expanded significantly, boasting impressive buildings, state of the art laboratories, internet centres, a modern library, and an outstanding sports complex, all spread across 300 acres. The serene campus, with its aesthetically designed structures, sports facilities, and lush greenery, makes it a top choice for Engineering Aspirants. Affiliated with Anna University and approved by the All India Council for Technical Education (AICTE), New Delhi. Sri Sairam Engineering College is certified with the Educational Organization Management System (EOMS) IS/ISO 21001: 2018, NBA accreditation to all eligible programs, and NAAC accreditation with A+ NIRF

## ABOUT INDIAN ASSOCIATION FOR CRYSTAL GROWTH (IACG)

The Indian Association for Crystal Growth (IACG) aims to advance and foster the theory and practice of crystal growth. Its objectives include organizing conferences, seminars, workshops, and hands-on training across the country to educate individuals at various levels and provide a platform for discussing and reporting new developments in the field. Currently, IACG has around 500 active life members involved in crystal growth research. To date, the association has successfully conducted 26 Crystal Growth seminars, many of which have seen international participation.

## ABOUT INDIAN SPECTROPHYSICS ASSOCIATION (ISPA)

HUMANITIES AND SCIENCES Indian SpectroPhysics Association (ISPA) is a brain child of Veteran Professor and Scientist Dr. S. Gunasekaran. ISPA was started on April 23, 1998, it is a registered society under whose auspices, conferences, workshops and seminars are organized. ISPA is the peak of a strong belief that enlightening young minds and empowering them to pursue research through Spectroscopy. ISPA has an enviable record of having organized 16 International conferences and 18 National Conferences. ISPA also has organized 20 State Level Technical Seminars in Physical Sciences for PG and M.Phil. students, since 1999. Indian SpectroPhysics Association (ISPA) finds its place in encouraging renowned and young scientists by honouring them with ISPA Awards in the recognition of the research findings of the scientists. 15 Veteran scientist Awards, 54 Life Time Achievement Awards, 86 ISPA Dr. S. Gunasekaran Awards, Dr. S. Mohan Awards, are given to researchers who have made excellent contributions in the field of Research, during Conferences/ Seminars organized by ISPA. An international consortium has been made with the Medical University of Sofia for a tune of 1000 crore for a research project., Visit [www.ispa.org.in](http://www.ispa.org.in) for more details. Annual and Life Team Membership forms can be availed from the website.

## HUMANITIES AND SCIENCES

With a vision to nurture the inquisitive minds of aspiring technocrats and a mission to impart scientific knowledge alongside technical skills through innovative and engaging teaching methods, the Department of Humanities and Sciences has worked diligently to align with the educational goals of the Institution. The Department shapes students' attitudes towards Physics, Chemistry, Mathematics, and English, providing a strong foundation in the core principles of Engineering. Efforts are underway to establish a dedicated Research Labs for Engineering Physics, Engineering Chemistry, and Applied Mathematics.

## DEPARTMENT OF H & S (PHYSICS)

The faculty of the Department guide students in understanding the modern technological aspects of Physics, fostering their technical competence. The Physics laboratory offers a professional environment that encourages advanced experiments, such as Hall measurement, Semiconductor diodes, Transistor circuits, JFET oscillators, Lasers, and Optical fibers, providing hands-on training to deepen students' knowledge. Faculty members are actively engaged in research across various fields, including Crystal growth, Crystallography, Thin films, Nanomaterials, Solar cells, Photonics, Biomaterials, and Laser spectroscopy, and they also mentor Research Scholars. Functional Materials Research Laboratory (FMRL) was established in the year 2021 in Sri Sai Ram Engineering College equipped with advanced instruments for synthesizing functional materials such as nanomaterials, crystalline materials, ceramic materials, and solar cell materials for the development of various Opto-Electronic applications.

## ABOUT THE CONFERENCE

The recent scientific and technological developments are pillars of modern aspects scientific and engineering. These breakthroughs are made possible through the productive exchange of ideas and meaningful collaboration among Scientists, Engineers, and Researchers from different dimensions of science, technology, and industry. In this context, the Functional Materials Research Laboratory (FMRL), Physics Department of Sri Sai Ram Engineering College, Chennai in association with Indian Association for Crystal Growth (IACG) and Indian SpectroPhysics Association (ISPA) has brought up a unique platform for students, researchers and academia to experience lectures/talks from experienced scientists across the world.

Functional Materials Research Laboratory (FMRL), Physics Department, is very glad to conduct the International Conference on Modern Functional Materials (ICMFM-2025) from the 11<sup>th</sup> to 12<sup>th</sup> of September 2025. During the conference, participants shall experience the quintessence of science and technology and upgrade their knowledge from the renowned International scientific expresses in various fields of advanced materials and device technology.

## FOCUSING AREAS

BULK CRYSTAL GROWTH  
NOVEL CRYSTAL GROWTH TECHNIQUES  
NLO AND LASER CRYSTALS  
ELECTRO OPTIC AND ACOUSTO-OPTICS  
COMPUTATIONAL SCIENCE  
LASER SPECTROSCOPY  
MOLECULAR SPECTROSCOPY  
MAGNETIC MATERIALS  
CERAMIC TECHNOLOGY  
THIN FILM TECHNOLOGY  
NANOMATERIALS  
QUANTUM DOTS  
THERMOELECTRIC MATERIALS  
BIO-MATERIALS  
PHOTOVOLTAIC MATERIALS  
SUPERCAPACITOR ELECTRODE MATERIALS  
LI-ION BATTERIES  
FUEL CELLS  
SENSORS  
SOLAR CELL DEVICES

## REGISTRATION DETAILS

This international conference is open to UG/PG students of Science and Engineering, Researchers, Faculty members and Scientists from Universities, Colleges, R&D institutes and researchers from Industry. Certificate will be provided for all the registered participants. The interested participants are requested to complete the registration form attached herewith and submit the pdf file to the conference e-mail id :

**head.fmrl@sairam.edu.in**

## FEE DETAILS

Faculty / Scientist	: Rs.350
Research Scholar	: Rs.300
UG / PG Students	: Rs.200
Industries	: Rs.500

Registration fee includes course materials, lunch, refreshment and certificate. The registration fees may be paid through DD in favour of **"SRI SAIRAM ENGINEERING COLLEGE"** Payable at Chennai. Online fund transfer is also encouraged.

## BANK ACCOUNT DETAILS

Bank Name	: City Union Bank
Account Name	: SEC FMRL
Account Number	: 500101012732625
Address	: City Union Bank, Sri Sairam Engineering College Campus, Sai Leo Nagar, West Tambaram, Chennai- 44
Branch	: Poonthandalam
IFSC Code	: CIUB0000634, MICR No. : 600054125

## AWARDS FOR RESEARCH SCHOLARS

Abstracts related to the conference topics are only invited and the best 3 oral presentations will be awarded a cash prize and merit certificates. The selection will be based on the performance of the candidate's presentation and the decision of the experts panel will be final.

## RESEARCH PUBLICATIONS

Selected manuscript will be published in SCOPUS / SCI Indexed Journals. The participants who are willing to send their research outcomes may send one page abstract according to the required format (attached herewith) to

**head.fmrl@sairam.edu.in**  
**on or before 28 August 2025**

## IMPORTANT DATES

Last date for the submission of Abstract :	<b>28.08.2025</b>
Notification for acceptance of Abstract :	<b>30.08.2025</b>
Last date for Registration :	<b>05.09.2025</b>

## REGISTRATION LINK



<https://tinyurl.com/33b7y5y7>



## ADVISORY COMMITTEE

Prof. Mariusz Marchewka, Polish Academy of Sciences, Poland.  
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Dr. John V Kennedy, National Isotope Centre, GNS Science, New Zealand.  
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Prof. Annie Ng, Nazarbayev Univeristy, Astana, Kazakhstan.  
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Dr. A. Kalpana, Anna University, India.  
Prof. J. Kumar, Vice Chancellor, Madurai Kamaraj University, Madurai, India.  
Prof. S. Narayana Kalkura, Crystal Growth Centre, Anna University, India.  
Prof. K. Baskar, Indian Institute of Information Technology, Manipur, India.  
Prof. D. Arivuoli, Crystal Growth Centre, Anna University, India.  
Prof. S. Moorthy Babu, Crystal Growth Centre, Anna University, India.  
Dr. K. Shanthi, Crystal Growth Centre, Anna University, India.  
Dr. Sasikala Ganapathy, Crystal Growth Centre, Anna University, India.  
Dr. Shubra Singh, Crystal Growth Centre, Anna University, India.

## INTERNATIONAL SPEAKERS (TENTATIVE)

Prof. S. Lourdudoss, KTH-Royal Institute of Technology, Sweden.  
Dr. Kentaro Tashiro, National Institute for Materials Science (NIMS), MANA, Japan.  
Dr. R. Judit Lisoni, Universidad, Austral de Chile, Chile  
Prof. Annie Ng, Nazarbayev Univeristy, Astana, Kazakhstan.  
Dr. Dhruv Saxena, Postdoctoral Researcher, Queen Mary University of London, London  
Dr. N. Vijayan, National Physical Laboratory, New Delhi, India.  
Dr. R. M. Saraguna, SO-G and Head DTDS, IGCAR, UGC-DAE, Kalpakkam, India.  
Dr. G.M. Bhalerao, UGC-DAE, Kalpakkam, India.  
Dr. Somnath C Roy, Professor, Department of Physics, IITM, Chennai.

## ORGANIZING COMMITTEE

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**Dr. Sai Prakash LeoMuthu**  
Chairman & CEO, Sairam Institutions

### Patron:

**Dr. J. Raja**, Principal.

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Dr. R. Mohan  
Dr. M. Syed Ibrahim  
**FMRL Research Scholars and  
RIIC team Students**



Address for correspondence:

**Dr. N. SIVAKUMAR, Convener - ICMFM-2025**  
Functional Materials Research Laboratory (FMRL), Department  
of H & S (Physics), Sri Sairam Engineering College,  
Sai Leo Nagar, West Tambaram, Chennai-600 044

**Mobile: +91 88073 37714**  
**e-mail : head.fmrl@sairam.edu.in.**



We build a better nation through quality education.