



**ANNA UNIVERSITY  
MADRAS INSTITUTE OF TECHNOLOGY CAMPUS**

**TWO-DAY  
NATIONAL CONFERENCE  
ON  
ADVANCES IN POLYMER COMPOSITES  
"APC-2024"**



**23-24 FEBRUARY, 2024  
FRIDAY-SATURDAY**

**ORGANISED BY  
DEPARTMENT OF RUBBER AND  
PLASTICS TECHNOLOGY,  
ANNA UNIVERSITY, MIT CAMPUS,  
CHROMPET, CHENNAI – 44**

**IN ASSOCIATION WITH**



# ANNA UNIVERSITY

Anna University was established on 4th September, 1978 as a unitary type of University, offering higher education in Engineering, Technology, Architecture and Applied Sciences relevant to the current and projected needs of the society. Besides promoting research and disseminating knowledge gained therefrom, it fosters cooperation between the academic and industrial communities. This Institution is accredited by NAAC with A++ grade. The University was formed by bringing together and integrating four well known technical institutions in the city of Madras (now Chennai) namely, College of Engineering (CEG) (Established in 1794), Alagappa College of Technology (ACT) (Established in 1944), Madras Institute of Technology (MIT) (Established in 1949), School of Architecture & Planning (SAP) (Established in 1957).



# MADRAS INSTITUTE OF

# TECHNOLOGY

## In commemoration of 75<sup>th</sup> Year Celebrations of Madras Institute of Technology

In 1949, Shri.C.Rajam, gave the newly independent India-Madras Institute of Technology, so that MIT could establish the strong technical base it needed to take its place in the world. It was the rare genius and daring of its founder that made MIT offer courses like Aeronautical Engineering, Automobile Engineering, Electronics Engineering and Instrument Technology for the first time in our country. Now it also provides technical education in other engineering fields such as Rubber and Plastics Technology, Production Technology, Computer Technology and Information Technology.

It was merged with Anna University in the year 1978. MIT has produced great scientist and former President of India, Dr.A.P.J.Abdul Kalam, and former Chairman of ISRO Dr. K.Sivan, and many more. The broad-based education, coupled with practice-oriented training in their specialty, has enabled the students of MIT to handle with skill and success a wide variety of technical problems.

MIT Campus is Celebrating its 75th Platinum Jubilee year from July 2023 onwards.



# DEPARTMENT OF RUBBER

# AND PLASTICS TECHNOLOGY

The Department of Rubber and Plastics Technology was started in the year 1988 and offers a four year Under graduate degree programme in B.Tech Rubber and Plastics Technology (NBA accredited ) and a two year Post graduate degree programme in M.Tech Rubber Technology and Ph.D program in the field of Polymer Science and Technology.

Both B.Tech and M.Tech graduates of the Department are well received by Tyre and Non-tyre industries, Automotive Component Industry and research organization in India and abroad. Some alumni are also doing well as entrepreneurs.

The Department has sufficient infrastructure facilities in terms of equipments and machinery to impart relevant practical training in Rubber and Plastics Technology.

The department carries out research work in the area of Rubber Science, Polymer Blends and Composites, Biopolymers, Sustainable materials.

## VISION

The Department of Rubber and Plastics Technology shall constantly strive to be renowned for its academic and research excellence with professionalism and social responsibilities.

## MISSION

- Equip its graduates to meet the expectations of Rubber, Plastics and allied industries and professional organizations
- Expand its knowledge base in collaboration with Rubber, Plastics and allied industries and research organizations
- Emphasize on product design aspects so as to enable graduates to be innovators in the field of Rubber, Plastics and allied areas of Technology
- Motivate students to become entrepreneurs
- Carry out inter-disciplinary research and development activities integrating Rubber and Plastics Technology with other Engineering disciplines



# ABOUT FRP INSTITUTE

**FRP Institute is a professional society based in Chennai, India, formed with the aim to promote the Indian composites Industry. FRP Institute organizes International Conference and Exhibition on Reinforced Plastics (ICERP) event once in every two years and the previous event in this series was ICERP 2023 which was held during 18th to 20th January 2023 at Bombay Exhibition Centre, Goregaon (East) Mumbai, India. ICERP event is the India's biggest event on Composites since 2002.**

- FRP Institute conducts training programmes on Composites technology**
- Organizes National Conference Programme on Composites**
- Organizes India pavilion in leading global composites shows**
- FRP Institute helps the Indian composites industry for making joint ventures with companies abroad and outsourcing of composite raw materials and products from India**
- FRP Institute is well connected with the leading composites organizations around the world**
- It organizes webinars on selected topics on Composites**
- Bring out the Indian Composites Industry Directory**
- Organizes Interaction meetings at different parts of the country**



# OBJECTIVE OF THE CONFERENCE

The objective of the conference is to explain the advancement in composite materials and their implementation towards the development of low-cost and high-efficient fabrication of advanced polymer composites, which still remains as a great challenge and thorny issue. This conference features, invited lectures by eminent experts and provides a forum for researchers, scientists, faculty, and industry representatives to discuss the most recent innovations, trends, research aspects, practical challenges, and solutions about advances in polymer composites.



## **CHIEF PATRON**

**Prof.Dr. VELRAJ**

*VICE CHANCELLOR, ANNA UNIVERSITY*

## **PATRON**

**Prof.Dr.J.PRAKASH**

*REGISTRAR (I/C), ANNA UNIVERSITY*

**Prof.Dr.K.RAVICHANDRAN**

*DEAN (I/C), MIT CAMPUS*

**Dr. S.SUBRAMANIAN**

*CHAIRMAN FACULTY OF TECHNOLOGY*

## **CONVENER**

**Prof. Dr. L.S.JAYAKUMARI**

*HEAD, DEPARTMENT OF RPT, MIT CAMPUS*

## **ORGANIZING SECRETARY**

**Dr. K.ELANGO VAN**

*DEPARTMENT OF RPT, MIT CAMPUS*



## ORGANIZING COMMITTEE MEMBERS

- Dr. A. Selvam, Executive Secretary, FRP Institute
- Dr. B.Kothandaraman, Professor/RPT/MIT
- Dr. N.Natchimuthu, Professor/RPT/MIT
- Mr. S. Prabakaran, Executive, FRP Institute
- Ms.J.Jebarani, TF/RPT/MIT
- Dr. H.Sheik Mohammed, TF/RPT/MIT
- Ms.B.Archana, TF/RPT/MIT
- Mr.A.Karthik Narayanan, TF/RPT/MIT

## ADVISORY COMMITTEE MEMBERS

- Dr.S.N. Jaisankar, Chief Scientist/CSIR-CLRI
- Dr.M.Balasubramanian, Professor/DMME/IITM
- Dr.S.Balasivanandha Prabu, Prof./DME/CEG
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- Dr.A.Siddharthan, Professor/PT/MIT
- Dr.G.B.Bhaskar, Professor/PT/MIT
- Dr. P.S Sampath, Professor/DME/KSRCT



# CALL FOR PAPERS

Topics of interest include, but are not limited to

- » •ADVANCED MATRICES AND REINFORCEMENTS
- » •COMPOSITES FOR SUSTAINABILITY
- » •COMPOSITES FOR AUTOMOBILE AND AEROSPACE
- » •COMPOSITES FOR CONSTRUCTION INDUSTRIES
- » •ADVANCED NANOCOMPOSITES
- » •TECHNICAL TEXTILES
- » •CHALLENGES IN COMPOSITE RECYCLING
- » •COMPOSITES FOR BIOMEDICAL APPLICATIONS

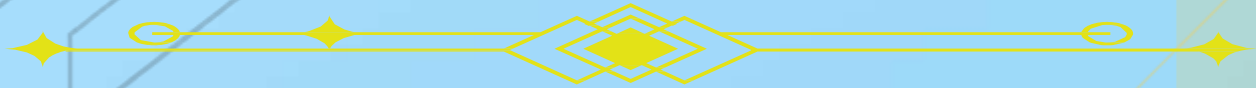
## JOURNAL PUBLICATIONS

All the accepted and presented papers will be published in the conference proceedings. Selected papers after peer review and as per the norms of journals will be published in the reputed journals.

## SUBMISSION GUIDELINES

**Abstract/Original research** articles not exceeding 6 pages typed in double column format should be submitted on or before **21.02.2024** through email **apc2024@mitindia.edu**

# **SPEAKERS**



**Keynote and technical talk will be delivered by the eminent speaker from recognized organizations like CSIR-National Aerospace Laboratories, Bangalore; KC Contech, Chennai; Tata AutoComp Systems Limited, Pune; Toray Industries, Ahmedabad, IITM etc.**

**Dr. Saji Devadathan, Sr. Principal Scientist & Dy Head QA  
Advanced Composites Division, CSIR-National Aerospace  
Laboratories, Bangalore**

**Mr. Rahul Awaghade, Sales & Marketing Manager  
Carbon Fiber division, TORAY International India Pvt . Ltd .**

**Dr. R N Krishna Ph.D (Civil Engineering)  
KC Contech, Chennai**

**Dr. Rahul Rane, DGM R&D and Technology  
Tata Auto Comp Systems Limited – Composites Division, Pune.**

**Dr. V.Velpari, President  
Glass Materials & Process Technologies, LLC, Pittsburgh, PA, USA**

**M. Balasubramanian, Professor  
Dept. of Metallurgical & Materials Engineering, Indian Institute of  
Technology Madras**

**Mr. Justin Vijay Jesudas, Head of operations/Centre Manager  
TTK Center for Rehabilitation Research and Device Development  
(R2D2)  
Indian Institute of Technology Madras**

# **SPONSORSHIP OPPORTUNITY**



The Conference will provide an opportunity to commercial and industrial partners to exhibit and highlight their products/services to attendees, scientists, students and early career engineers. Researchers and engineers can connect with leading Indian and global biomaterials-based manufacturing companies as they showcase the newest products and the latest technologies. Your support allows organizers and members to continue their efforts in knowledge sharing and skill development across all engineering disciplines.

Industries, R&D organisations and Professional bodies are requested to sponsor the Conference “APC 2024”. Organizing committee will arrange proper publicity of the contributors during the workshop. The Workshop Proceedings with abstracts and advertisement will be released.

## **Advertisement Tariff**

**Back side outer cover page : ₹25,000/- INR**

**Front side inner cover page : ₹20,000/- INR**

**Back side inner cover page : ₹15,000/- INR**

**Advertisement full page : ₹10,000/- INR**

**Advertisement half page : ₹5,000/- INR.**

**Become A Sponsor!**

# REGISTRATION

Registration is compulsory for all the participants and the fees are as follows:

Category of Participants	Registration fee
UG/PG/Research Scholars	Rs. 750/-
Academicians	Rs. 1,500/-
Industrial Participants	Rs. 3,000/-

Please complete the enclosed online registration form and submit it along with the registration fee slip on or before 23rd February 2024

**Bank Details:**



Account Name : APC-2024  
SB Account No.: 7696519965  
Bank / Branch : IB, Chrompet  
IFS code : IDIB000C028

## ACCOMMODATION

Accommodation can be arranged for outstation participants in Guest House (Rs.750) / Hostels (Rs.200) upon request on payment basis with due intimation.

## VENUE & DATE

Venue: Rajam Hall, MIT Campus, Chromepet, Chennai - 600044

Date: 23-24 February 2024, Friday

Scan the below QR Code for website



Scan the below QR Code for Location



## Organizing Secretariat

<b>Mr. M.Arunkumar</b> Teaching Fellow, RPT MIT Campus	<b>arunsakthi@mitindia.edu</b>	<b>Mob no:</b> <b>9751713511</b>
<b>Dr. Piyali Roy</b> <b>Choudhury</b> Teaching Fellow, RPT MIT Campus	<b>piyaliroychoudhury@mitindi</b> <b>a.edu</b>	<b>Mob no:</b> <b>9836425094</b>



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 [www.apc2024.mitindia.edu](http://www.apc2024.mitindia.edu)

 [apc2024@mitindia.edu](mailto:apc2024@mitindia.edu)



## Registration Form

# Two-day National Conference on Advances in Polymer Composites (APC-2024)

23 Feb'2024 & 24 Feb'2024

Venue: Rajam Hall, MIT Campus, Anna University,  
Chromepet, Chennai – 600044.

Name: \_\_\_\_\_

Designation: \_\_\_\_\_

Organization: \_\_\_\_\_

Mobile: \_\_\_\_\_

E-mail: \_\_\_\_\_

Details of Registration Fee:

Amount:

Please send a duly filled, signed and scanned copy of the registration form to [apc2024@mitindia.edu](mailto:apc2024@mitindia.edu).

Research scholars and students must send a scanned copy of their ID card or Bonafide Certificate from Principal/Head of the Department.

Date:

Signature of  
Applicant

Signature of Sponsoring  
Authority with seal