



## ADVISORY COMMITTEE

1. Prof. Dr. Alexander P. Nemudry, Director (ISSCM SB RAS), Novosibirsk, Russia
2. Dr. Ranjith Krishna Pai, Scientist 'F' / Senior Director, DST, Ministry of Science and Technology, Government of India
2. Prof. Dr. Alexander I Titkov, ISSCM SB RAS, Novosibirsk, Russia
3. Prof. Dr. Nikolai F. Uvarov, Professor, ISSCM SB RAS, Novosibirsk, Russia
4. Prof. Dr. Nikolai Z. Lyakhov, Professor, ISSCM SB RAS, Novosibirsk, Russia
6. Prof. Dr. Fernando Gomes de Souza Junior, Professor, Universidade Federal do Rio de Janeiro, Brazil
7. Prof. Mohammad Khalid, Professor, University of Glasgow, UK
8. Prof. Dr. M. M. Shaijumon, Professor and Head, School of Physics, IISER, Thiruvananthapuram
9. Dr. Mailadil T Sebastian Retired Chief Scientist and Professor, CSIR-NIIST Trivandrum & Honorary Research Advisor, MAC

### For further information:

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## Important Dates

Last date of registration and abstract submission : 15 July 2025  
 Intimation of Abstract acceptance : 18 July 2025  
 Last date for full paper submission : 15 August 2025

For further details visit : [www.macollege.ac.in/ICEESF-2025](http://www.macollege.ac.in/ICEESF-2025)

### For Registration

 <https://tinyurl.com/5n9by2z2>



### Registration Fee

Students : Rs. 500/-  
 Faculty : Rs. 700/-

### Conference Highlights

*World-Class Speaker Lineup*  
*Academic Excellence Recognition*  
*Official conference proceedings featuring research abstracts will be published with ISBN registration for scholarly documentation and reference*

### Patron:

**Dr. Winny Varghese**  
 Secretary, Mar Athanasius College Association

### Organizing Committee:

**Prof. Dr. Manju Kurian** (Chairperson)  
**Dr. Francis Xavier P. A.** (Convener)  
**Dr. Saritha K Nair** (Co-convener)  
**Dr. Smitha Thankachan** (Head, Dept. of Physics)  
**Dr. Deepa S**  
**Ms. Jassi J**  
**Dr. Sanu Mathew Simon**  
**Dr. Sandhya K M**



**Mar Athanasius College**  
 (Autonomous), Kothamangalam

NAAC Accredited 'A+' Grade Institution | 74th Position in NIRF College Ranking 2024  
 8th Position in KIRF College Ranking 2024



**ICEESF 25**

International Conference on

## Clean Energy and Environment for Sustainable Future

(ICEESF 25) 22- 23 August 2025

Organised by  
**Postgraduate &  
 Research Department of Physics**

In association with  
**Institute of Solid State Chemistry and Mechanochemistry  
 of Siberian Branch of the Russian Academy of Sciences  
 (ISSCM SB RAS), Novosibirsk, Russia**

## ABOUT THE COLLEGE

Mar Athanasius College (Autonomous), established in 1955, is a distinguished institution renowned for its academic excellence and commitment to holistic education. Affiliated with Mahatma Gandhi University, Kottayam, the college offers a diverse range of academic programs, including 15 undergraduate, 17 postgraduate and six doctoral programs. The college is consistently ranked among the top 100 institutions in India as per the National Institutional Ranking Framework (NIRF). In the 2024 Kerala Institutional Ranking Framework (KIRF), it was ranked 8th among arts and science colleges in the state of Kerala, India. The college is the first institution in Kerala to be accredited and re-accredited at 'A+' Grade by the National Assessment and Accreditation Council (NAAC). Recognising the contributions, the college was honoured with the distinction 'College with Potential for Excellence' by University Grants Commission (UGC) in 2009.

## ABOUT THE CONFERENCE

The International Conference on Clean Energy and Environment for Sustainable Future (ICEESF-2025), scheduled for August 22-23, 2025, represents a significant collaborative effort between the Postgraduate & Research Department of Physics, Mar Athanasius College (Autonomous), Kothamangalam, and the prestigious Institute of Solid State Chemistry and Mechanochemistry of Siberian Branch of the Russian Academy of Sciences (ISSCM SB RAS), Novosibirsk, Russia. This joint international symposium will bring together leading researchers,

scientists, and industry experts to address critical challenges in environmental sustainability and clean energy technologies. The conference will explore cutting-edge developments across key thematic areas: sustainable and renewable energy sources, advanced energy conversion and storage systems, recent breakthroughs in green technology, innovative bioenergy and biofuel solutions, comprehensive waste-to-energy approaches for circular economy implementation, solid waste management with air pollution control and recycling innovations, and regional climate change hazard projections.

## TOPICS

### Energy Technologies and Systems:

- ✧ Energy Production, Storage, and Fuel Cell Applications
- ✧ Energy Efficiency in Buildings and Industrial Processes
- ✧ Carbon Capture, Utilization, and Storage (CCUS) Technologies

### Environmental Science and Technology:

- ✧ Water Treatment and Purification Technologies
- ✧ Environmental Nanotechnology and Green Chemistry
- ✧ Ecosystem Restoration and Biodiversity Conservation

### Climate and Sustainability:

- ✧ Climate Change Mitigation and Adaptation Strategies
- ✧ Life Cycle Assessment and Environmental Impact Analysis
- ✧ Green Building Materials and Sustainable Construction

### Emerging Technologies:

- ✧ Artificial Intelligence and Machine Learning in Environmental Applications
- ✧ Biotechnology for Environmental Remediation

### Policy and Social Aspects:

- ✧ Environmental Policy and Regulatory Frameworks
- ✧ Community-Based Environmental Management
- ✧ Social Impact of Clean Energy Transitions

## SPEAKERS



### Dr. Ramakrishna Ramanath Sonde

Emeritus Professor  
Department of Chemical Engineering  
Birla Institute of Technology and Science, Pilani



### Dr. Ranjith Krishna Pai

Scientist 'F' / Senior Director  
Department of Science & Technology  
Ministry of Science and Technology  
Government of India



### Dr. Pratibha Sharma

Associate Dean (Academic Programmes)  
Cummins Chair Professor  
Department of Energy Science & Engineering  
IIT, Bombay



### Dr. Titkov Alexander Igorevich

Deputy Director for Science  
Institute of Solid State Chemistry  
and Mechanochemistry of Siberian  
Branch of the Russian Academy of Sciences  
(ISSCM SB RAS) Novosibirsk, Russia



### Dr. Masahiro Yoshizawa-Fujita, PhD

Professor  
Department of Materials & Life Sciences  
Sophia University, Japan



### Dr. M. M. Shajjumon

Professor and Head, School of Physics  
Indian Institute of Science Education &  
Research, Thiruvananthapuram



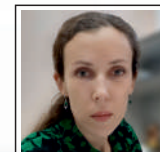
### Dr. Rakhi R B

Principal Scientist  
Centre for Sustainable Energy Technologies  
CSIR - National Institute For Interdisciplinary  
Science and Technology, Thiruvananthapuram



### Dr. Rohit Srivastava

Department of Petroleum Engineering  
School of Energy Technology  
Pandit Deendayal Energy University, India



### Dr. Marina Smirnova

Researcher  
Boreskov Institute of Catalysis  
Novosibirsk, Russia

