



**QUEEN MARY'S COLLEGE (A),  
CHENNAI-600 004**

(Accredited by NAAC with A<sup>+</sup> Grade)



## **SCIENCE CLUB**

Cordially invites you to the  
**INTERNATIONAL CONFERENCE  
ON**

**SUSTAINABLE MATERIALS -  
GLOBAL PERSPECTIVES  
&  
RESEARCH OPPORTUNITIES  
ICSM-2025**

**Sponsored by  
Tamil Nadu State Council for Science  
and Technology (TNSCST)**

**24<sup>TH</sup> &  
25<sup>TH</sup>**

**THURSDAY  
&  
FRIDAY**

**JULY  
2025**

**Venue: Velu Nachiyar Hall, QMC  
Time: 09.00 a.m. onwards**

# PROGRAMME

24.07.2025

Registration	8.30 a.m. - 9.00 a.m.
Inauguration	9.00 a.m. - 10.00 a.m.
Welcome Address	<b>Dr. Maria Preethi Srinivasan</b> Convenor of ICSM 2025 Queen Mary's College, Chennai
Presidential Address	<b>Dr. B. Uma Maheswari</b> Principal Queen Mary's College, Chennai
Theme Presentation	<b>Dr. R. Vanathi Vijayalakshmi</b> Associate professor Department of Physics Convenor of ICSM 2025 Queen Mary's College, Chennai
Felicitations	
Book Release	Proceedings of the International conference
Inaugural Address & Plenary Session I	10.00 a.m. - 11.00 a.m.
<i>Smart Materials for the Fabrication of Fuel cells &amp; Supercapacitor devices</i>	<b>Dr. E. Murugan</b> Dean - Research & Professor and Head Department of Physical Chemistry School of Chemical Science University of Madras, Chennai
Vote of Thanks	<b>Dr. B. Revathi Mani</b> Associate Professor Department of Biochemistry Queen Mary's College, Chennai
Tea Break	11.00 a.m. - 11.15 a.m.
Plenary Session II	11.15 a.m. - 12.15 p.m.
<i>Recent Research Developments in Material Science</i>	<b>doc. Dr. Mohanapriya Venkataraman</b> Associate Professor Department of Material Engineering Technical University of Liberec Liberec, Czech Republic

### Plenary Session III

*Controllability of  
Generalized Hilfer  
fractional differential  
equations*

12.15 p.m. - 1.15 p.m.

**Dr. Javid Ali**

Associate Professor  
Department of Mathematics  
Aligarh Muslim University  
Aligarh, Uttar Pradesh.

### Lunch Break

1.15 p.m. - 2.15 p.m.

### Plenary Session IV

*Sustainability in  
Material Science*

2.15 p.m. - 3.15 p.m.

**Prof. Ing. Jiří Militký**

Professor  
Department of Material Engineering  
Technical University of Liberec  
Liberec, Czech Republic

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**25.07.2025**

### Plenary Session V

9.00 a.m. - 10.00 a.m.

*Reaction Systems: A  
Mathematical model of  
chemical reactions based  
on the principles of  
resource threshold and  
sustainability*

**Dr. K. G. Subramanian**

Professor (Retd.)  
Department of Mathematics  
Madras Christian College, Chennai  
Honorary Visiting Professor  
Liverpool Hope University  
Liverpool, U.K

### Plenary Session VI

10.00 a.m. - 11.00 a.m.

*On Random Polynomials:  
Sustainability and  
Universality*

**Dr. V. Thangaraj**

Former Director and Head  
Ramanujan Institute for Advanced  
Study in Mathematics  
University of Madras, Chennai

### Tea Break

11.00 a.m. - 11.15 a.m.

### Plenary Session VII

11.15 a.m. - 12.15 p.m.

*Emerging Technologies  
of Nanophotonics and  
Opportunities*

**Dr. Natesan Yogesh**

Assistant Professor  
Department of Physics  
National Institute of Technology  
Calicut

**Paper Presentation Session**

**12.15 p.m. - 1.15 p.m.**

**Chair Persons**

**Dr. G. Usha**

Associate Professor (Retd.)  
Department of Physics  
Queen Mary's College, Chennai

**Dr. P. Vasanthi Beulah**

Associate Professor (Retd.)  
Department of Mathematics  
Queen Mary's College, Chennai

**Lunch Break**

**1.15 p.m. - 2.15 p.m.**

**Felicitation of all the  
sponsors**

**2.15 p.m. - 2.45 p.m.**

**Valediction**

**2.45 p.m. - 3.15 p.m.**

**Welcome Address**

**Dr. E. Uma**

Associate Professor & Head  
Department of Physical Education,  
Health Education and Sports,  
Queen Mary's College, Chennai

**Presidential Address**

**Dr. B. Uma Maheswari**

Principal  
Queen Mary's College, Chennai

**Summary of the  
Conference**

**Dr. R. Hemavathy**

Associate Professor  
Department of Mathematics  
Convenor of ICSM 2025  
Queen Mary's College, Chennai

**Distribution of Certificates**

**Vote of Thanks**

**Ms. J. Madhumitha**

Research Scholar  
Department of Physics  
Queen Mary's College, Chennai

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