

PHYSICS ASSOCIATION FOR DEVELOPING AND REVERBERATING THOUGHTS AND ANSWERS

NATIONAL CONFERENCE ON
MATERIAL SCIENCE FOR SUSTAINABILITY

PADARTHA 2025

MARCH 5 & 6

60
असतो मा सद्गमया
St. Xavier's College

Department of Physics
St. Xavier's College
Thumba, Thiruvananthapuram

About **PADARTHA**

PADARTHA (Physics Association for Developing and Reverberating Thoughts and Answers) is an annual seminar series initiated in 2016 to commemorate National Science Day. It began as a platform to showcase the innovative ideas and skills of MSc and BSc Physics students from within and outside the college. Over the years, PADARTHA has grown into a significant scientific event, fostering creativity, collaboration, and academic excellence in the field of physics.

This year marks the **10th edition** of PADARTHA, coinciding with the **Diamond Jubilee Celebrations** of **St. Xavier's College**, Thumba, making it a truly remarkable milestone. The conference has now evolved into a **National Conference** with the theme ***"Material Science for Sustainability."*** The conference will be held on **5th** and **6th March 2025**, providing a platform to discuss the critical role of material science in addressing global challenges. Researchers, including PhD scholars and academicians, are invited to share insights, engage in discussions, and exchange ideas on leveraging material science for a sustainable future. This landmark event aspires to unite academic and research communities, inspiring impactful contributions to science and society.

ORGANIZING COMMITTEE

Advisory Committee	:	**Dr. (Fr.) Sunny Jose SJ** Manager
		Dr. Nisha Rani D Principal
Chairman	:	**Dr. Renju R Krishnan** Head, Department of Physics
Coordinator	:	**Dr. Mahesh N R** Assistant Professor of Physics
Steering Committee	:	**Dr. (Fr.) Shibu Joseph S J** **Dr. Sunil C. Vattappalam** **Dr. Tinu Antony** **Dr. Shyni V** **Ms. Sreelekshmi R** **Ms. Lincy S Baby**

05/03/2025

09.30–10.30 am : *Registration*

10.30–11.10 am : **Inaugural Session**

Welcome Address : **Dr. Mahesh N R**
Coordinator, PADARTHA 2025

Presidential Address : **Dr. Renju R Krishnan**
Head, Department of Physics

Inauguration : **Prof. Sabu Thomas**
Former Vice-Chancellor,
Mahatma Gandhi University

Manager's Address : **Fr.(Dr.) Sunny Jose S J**

Principal's Address : **Dr.Nisha Rani D**

Felicitation : **Fr.(Dr.) Shibu Joseph S J**
Assistant Professor and Physics
Alumni Secretary,
Department of Physics

Vote of Thanks : **Dr. Tinu Antony**
Assistant Professor,
Department of Physics

11.10–11.30 am : *Tea Break*

11.30 am–12.30 pm : *Key Note Address*

"Developments in Material Science for a Sustainable Tomorrow"

Prof. Sabu Thomas
Former Vice-Chancellor, Mahatma Gandhi University

12.30–01.30 pm : *Lunch Break*

01.30–2.20 pm : *Invited Talk I*

"The Feasibility of Using Proteins in Solid State Electronic Gas Sensors"

Dr. Jerry Alfred Fereiro
Assistant Professor, School of Chemistry IISER
Thiruvananthapuram

02.20–02.30 pm : *Tea Break*

02.30–03.30 pm : **Paper Presentation** (*Oral*) **- I**

06/03/2025

10.00–11.00 am : *Invited talk II*

"Materials for Next Generation Memory Technology"

Dr. Jinesh K. B

Professor, Department of Physics,
Indian Institute of Space Science and Technology,
Thiruvananthapuram

11.00–11.15 am : ***Tea Break***

11.15 am–12.30 pm : **Paper Presentation** (*Poster*)

12.30–01.30 pm : ***Lunch Break***

01.30–02.30 pm : **Paper Presentation** (*Oral*) **- II**

02.30–03.30 pm : **Valedictory Function**

Registration Fee: ₹ 350

For Registration

For Joining WhatsApp Group

Important Dates

Abstract Submission : **12/02/2025**

Full Paper Submission : **25/02/2025**

All papers accepted for presentation will be formally published in the official conference proceedings

Contact

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