

Dr. A. Leo Rajesh

Associate Professor of Physics
Pondicherry University, Pondicherry

Dr. C. Ravidhas

Vice-Principal, Associate Professor of Physics,
Bishop Heber College, Tiruchirappalli.

Dr. T. C. Sabari Girisun

Assistant Professor of Physics
Bharathidasan University, Tiruchirappalli.

ORGANIZING COMMITTEE**CHIEF PATRON**

Rev. Sr. Lourdu Adaikalasamy
Provincial.

HONORARY CHAIRS

Rev. Dr. (Sr.) Sarguna
Secretary

Holy Cross College
(Autonomous) Tiruchirappalli.

Rev. Dr. (Sr.) Isabella Rajakumari

Principal
Holy Cross College (Autonomous)
Tiruchirappalli.

CONFERENCE CHAIR

Dr. A. Philominal

Head & Assistant Professor
PG & Research Department of Physics
Holy Cross College (Autonomous)
Tiruchirappalli.

CONFERENCE CONVENERS

Dr. V. Vasumathi

Dr. K. Bansura Banu

Assistant Professors of Physics
Holy Cross College (Autonomous),
Tiruchirappalli.

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Ms. M. D. Mercy Jennifer

Dr. A. Jennifer Christy

Ms. N. Jayalakshmi

Assistant Professors of Physics
Holy Cross College (Autonomous), Tiruchirappalli

INVITED SPEAKERS

Dr. Santosh Mogurampelly, IIT Jodhpur
Dr. P. Arunachalam, King Saud University, Saudi
Dr. T. Prasankumar, University of Malaya, Malaysia
Dr. P. Ragupathy, CSIR-CECRI, Karaikudi
Dr. S. Manivannan, NIT Tiruchirappalli
Dr. S. Yugeswaran, Pondicherry University,
Pudhucherry

**FOR FURTHER DETAILS AND REGISTRATION
CONTACT:**

The Convener,

ICMMES-2025

School of Physical Sciences

PG & Research Department of Physics
Holy Cross College (Autonomous), Tiruchirappalli-620002
Tamil Nadu, India.

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**SCHOOL OF PHYSICAL SCIENCES
PG & RESEARCH
DEPARTMENT OF PHYSICS**

Holy Cross College

(Autonomous)

Affiliated to Bharathidasan University

Nationally Accredited (4th Cycle) with 'A+' (CGPA 3.75/4) Grade by NAAC

College with Potential for Excellence

TIRUCHIRAPPALLI-620002

Tamil Nadu, India.

Organizes

***International Conference on
Materials and Methods for
Environmental Sustainability***

(ICMMES-2025)

12th & 13th February 2025

ABOUT THE COLLEGE

Holy Cross College (Autonomous), Tiruchirappalli, has been in the fore front of Women's Education in Tamil Nadu. It was started in the year 1923, and has a unique excellence for ten decades. The college, administrated by the Sisters of the Cross of Chavanod, Province of Tiruchirappalli, is affiliated to Bharathidasan University and is one among the oldest colleges for women in South India. In recognition of its service for the cause of women's education, it was granted Autonomous status in 1987. It was awarded "College with Potential for Excellence" in 2011, and the college is under the star college scheme. The college was accredited with "A++" grade with 3.75 on a 4 point scale in the fourth cycle of accreditation by NAAC in 2020.

ABOUT THE DEPARTMENT

PG & Research Department of Physics with 50 and above years of service has shown remarkable achievement both in academic and non-academic activities. With vibrant faculty members, the department has also undertaken several projects funded by various national funding agencies such as UGC, DST, DBT. The department often host seminars, workshops and conferences to raise awareness on contemporary issues of global concern.

ABOUT TIRUCHIRAPPALLI

Tiruchirappalli, situated on the banks of the river Cauvery is the fourth largest city in Tamil Nadu. Trichy is a fine blend of tradition and modernity built around the Rock Fort. Apart from the Fort, there are several Churches, Colleges and Missions. This city has given many great Tamil Scholars. The most famous landmark of this bustling town is the Rock fort Temple, a spectacular monument perched on a massive rock. The city is a thriving commercial centre in Tamil Nadu and famous for artificial diamonds, handloom cloth, glass bangles and clay toys.

ABOUT THE CONFERENCE

The theme for the GREENS-2025 highlights the transformative potential of nanotechnology in addressing significant environmental challenges. It is specifically intended to host a collaborative, interdisciplinary team of leading researchers to share their knowledge and research experience on the sustainable application of nanomaterials. Faculty members, research scholars, and students from various colleges will have the opportunity to present their research works and receive insightful suggestions from professionals. Sharing and interacting on Recent research on environmental sustainability is essential, but actions speak louder than words.

This conference aims to empower young minds to take substantial strides toward a more sustainable tomorrow. Inspired by the idea of long-term viability, objective of the conference is to create a forum for constructive discourse on innovative advances in the fields of energy storage and conversion, waste management and purification, CO₂ absorption and separation, recycling readily available materials, and regenerative medicine.

THRUST AREAS

- Next-Generation Lithium-Ion Batteries
- Advancements in Solid-State Batteries
- Hydrogen Production and Storage Solutions
- High-Efficiency Fuel Cell Technologies
- Simulation-Based Optimization of Fuel Cells
- Sustainable Materials for Energy Storage
- Energy Storage for Electric Vehicles
- Modelling of Solar Energy Conversion Systems
- Multi-Scale Modelling Techniques for Energy Storage Applications
- Solid Waste Reduction Strategies
- Nano-Enhanced Wastewater Treatment
- Smart Technologies for Waste Management
- Nanomaterials for E-Waste Recycling
- Nanomaterials for Hazardous Waste

REGISTRATION

Registration is compulsory for participation. Registration link for the conference.

Participators: <https://forms.gle/8UCPjuAJQtZfdwC66>

Presenters: <https://forms.gle/rjHgQRTYWbx4BAox9>

IMPORTANT DATES

Submission of abstract : 08.02.2025

Intimation of acceptance : 10.02.2025

REGISTRATION FEE

The registration fee for the conference includes registration kit, conference proceedings, working lunch and refreshments. Online transfer to

Account No: 32993766567

Account Name: The Principal

Bank Name: State Bank of India

Branch: Trichy Town Branch

IFSC code: SBIN0001312

Students/Research Scholars	Rs.	500/-
Faculty from Academic and Research Institutes	Rs.	750/-
Participation only	Rs.	300/-

ADVISORY COMMITTEE

Dr. Santosh Mogurampelly,

Associate Professor, Department of Physics, IIT Jodhpur, Rajasthan.

Dr. R. Ragupathy

Associate professor & Principal Scientist
Flow Battery Section,
Electrochemical Power Sources Division,
CSIR-CECRI, Karaikudi, India.

Dr. S. Manivannan

Professor, Department of Physics
NIT, Tiruchirappalli.