

MANNAR THIRUMALAI NAICKER COLLEGE (AUTONOMOUS), MADURAI
DEPARTMENT OF PHYSICS

**INTERNATIONAL CONFERENCE ON EMERGING TRENDS IN PHYSICS,
ENERGY STORAGE MATERIALS AND NANOTECHNOLOGY-(ICEPEN 2025)**

03-02-2025 to 04-02-2025

REPORT

1. Date of Programme : 03.02. 2025 to 04-02.2025
2. Title of the Programme : International conference on Emerging Trends
in Physics, Energy storage materials and
Nanotechnology (ICEPEN 2025)
3. No of Participants : 300
4. Resource person : 1. Dr. M. Ulaganathan,
Associate Professor,
Department of Physics,
Amrita School of Physical Sciences,
Amrita Vishwa Vidyapeetham, Coimbatore.

2. Dr. K.Samanth
Research Professor,
Dept. of Chemical Engineering,
Sungkyunkwan University Suwon
Gyeonggi-do, Korea

3. Dr. MuthuSenthilPandian
Research scientist,
Photovoltaic Devices Laboratory SSN
Research Centre, SSN Institutions
Kalavakkam, Chennai.

4. Dr. G. Murugadoss,
Associate Professor (Research)
Centre for Nanoscience & Nanotechnology,
Sathyabama Institute of Science and Technology
(Deemed to be University), Chennai

5. Dr. A.Kathirvel,
Research Associate, Department of Physics,
Indian Institute of Technology, Madras,

6. **Dr. S.T. Senthilkumar**
Center for Advanced Materials Research
University of Sharjah
Sharjah, UAE..

5. Brief Report of the Programme

Department of Physics organized an International conference on Emerging Trends in Physics, Energy Storage Materials and Nanotechnology (ICEPEN 2025) was conducted on 3rd & 4th February 2025 in our college premises. This Two day International conference focused on the impacts of Energy Storage Materials and Nanotechnology.

Dr. M. Ulaganathan, Associate Professor, Department of Physics, Amrita School of Physical Sciences, Amrita Vishwa Vidyapeetham, Coimbatore was the resource person for the conference and he delivered an enlightening talk on preparation Nanomaterials for High Energy Aqueous Hybrid Supercapacitor .

Dr. K.Samanth Research Professor, Dept. of Chemical Engineering, Sungkyunkwan University Suwon, Gyeonggi-do, Korea was the chief guest for the conference and he delivered an enlightening talk on the various issues and applications in material science and Advanced DNA Hybrid Gel Electrolytes for High-Performance Supercapacitors in Green Energy Devices. In his lecture, he also highlighted the current research ongoing projects related to material science in the non-profitable organizations like ISRO, DRDO etc.,

Dr. A.Kathirvel, Research Associate, Department of Physics, Indian Institute of Technology Madras delivered a lecture on Halide Double Perovskites Single Crystal with Porous Architectures for Energy Conversion Applications. The Students Community received a lot of inputs from this conference.

Dr. MuthuSenthilPandian, Research scientist, Photovoltaic Devices, Laboratory SSN Research Centre, SSN Institutions Kalavakkam, Chennai, delivered a key note address on Development of Highly Efficient, Unidirectional and Technologically Important NLO Materials for Practical Device Applications .

Dr. G. Murugadoss, Associate Professor (Research) Centre for Nanoscience & Nanotechnology, Sathyabama Institute of Science and Technology, Chennai, was delivered on Perovskite Materials and Solar Cells: Innovations, Challenges, and Future Directions .

Dr. ST. Senthilkumar , Center for Advanced Materials Research, University of Sharjah, Sharjah delivered a lecture on Redox Flow Battery: What is that? and its Recent Advancement. The delegates had very good interaction with the experts. This International conference has motivated the students, the research scholars and the faculty to nurture their interest in the field of advance material and their applications. 300 participants were benefited from this program





Mannar Thirumalai Naicker College

(Autonomous)

Founded by the Tamilnadu Naidu Mahajana Sangam

A Linguistic Minority Co-Educational Institution

Re-Accredited with 'A+' in 3rd Cycle by NAAC

Pasumalai, Madurai - 625004, Tamilnadu, India.

PG & RESEARCH DEPARTMENT OF PHYSICS

Invites you to the

INTERNATIONAL CONFERENCE ON

EMERGING TRENDS IN PHYSICS, ENERGY STORAGE MATERIALS AND NANOTECHNOLOGY (ICEPEN 2025)

Date: 3rd & 4th February 2025

Venue: Moorthy Naidu Andalammal Hall

In the august presence of

Er.S.Rajagopal B.E.,
President

Mr.M.Vijayaragavan B.A.,
Secretary

Mr.R.Jeyaram B.A.,
Vice-President

Ln.K.Rajendra Babu MJF
Asst. Secretary

Mr.A.Alwarsamy, M.A.,
Treasurer

Dr.A.Ramasubbiah
Principal

Organizing Committee

Dr.S.S.Jayabalakrishnan
Asst. Prof. & HOD

Dr.R.Sangeetha
Asst. Prof. & Convenor

Dr.G.Dhanalakshmi
Asst. Prof. & Co-Convenor

Mrs.N.Lakshmi Kruthika
Asst. Prof. & Co-Convenor

Dr.P.P.Kannan
Asst. Prof.

Dr.N.Venkatesh Bharathi
Asst. Prof.

Dr.R.Sindhan
Asst. Prof.

Dr.P.Hemalatha
Asst. Prof.

All Are Cordially Invited



Day - I**PROGRAMME SCHEDULE**

09:00 AM Registration
10:00 AM Inauguration: Tamil Thani Vazhthu
Welcome Address
Dr. S. S. Jayabalakrishnan
Assistant Professor & Head
Presidential Address
Dr. A. Ramasubbiah
Principal
Felicitation
Er. S. Rajagopal, President
Mr. M. Vijayaragavan, Secretary
Mr. A. Alwarsamy, Treasurer
Mr. R. Jeyaram, Vice President
Mr. K. Rajendra babu, Assistant Secretary
Introducing the Chief Guest
Dr. R. Sangeetha
Convenor, Assistant Professor
Keynote Address
Dr. M. Ulaganathan
Associate Professor of Physics
Amrita Vishwa Vidyapeetham
Coimbatore
Vote of Thanks
Dr. G. Dhanalakshmi
Co-Convenor, Assistant Professor
11:30 AM Refreshment
11:45 AM Technical Session – I
Introducing the Speaker
Dr. R. Sangeetha
Convenor, Assistant Professor
Speaker
Dr. M. Ulaganathan
Associate Professor of Physics
Amrita Vishwa Vidyapeetham
Coimbatore
12:30 PM Technical Session – II
Introducing the Speaker
Mrs. N. Lakshmi Kruthika
Co-Convenor, Assistant Professor & Head
Department of Chemistry
Speaker
Dr. Samanth K
Research Professor
Department of Chemical Engineering
Sungkyunkwan University, Korea
01:15 PM Lunch Break
02:00 PM Technical Session – III
Introducing the Speaker
Dr. N. Venkatesh Bharathi
Assistant Professor
Speaker
Dr. A. Kathirvel
Research Associate
Department of Physics, IIT Madras

02:00 PM Oral, Online & Poster Presentation
03:30 PM Refreshment

Day II

09:30 AM Technical Session – IV
Introducing the Speaker
Dr. P. P. Kannan
Assistant Professor
Speaker
Dr. Muthu Senthil Pandian
Research Scientist, Photovoltaic Devices Laboratory
SSN Institutions, Chennai
10:15 AM Technical Session – V
Introducing the Speaker
Dr. R. Sindhan
Assistant Professor
Speaker
Dr. G. Munugadoss
Associate Professor (Research)
Centre for Nanoscience & Nanotechnology
Sathyabama Institute of Science and Technology
(Deemed to be University), Chennai
11:00 AM Refreshment
11:15 AM Technical Session – VI
Introducing the Speaker
Dr. P. Hemalatha
Assistant Professor
Speaker
Dr. S.T. Senthilkumar
Postdoctoral Research Associate
Center for Advanced Materials Research
University of Sharjah, Sharjah, UAE
12:00 PM Oral Presentation
01:00 PM Lunch Break
02:00 PM Valedictory Function
Welcome Address
Dr. R. Sangeetha
Convenor, Assistant Professor
Valedictory Address
Prize Distribution
Mr. M. Vijayaragavan
Secretary
Vote of Thanks
Mrs. N. Lakshmi Kruthika
Assistant Professor & Head
Department of Chemistry
National Anthem
03:00 PM Refreshment





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03/02/25 10:40 AM GMT +05:30







