



INTERNATIONAL CONFERENCE

## ON High Entropy Alloys and Advanced Materials for Energy and Environmental Applications

Hybrid Mode

**IC-HEAAMEA 2026**



**5<sup>th</sup> & 6<sup>th</sup> November 2026**



Madurai Kamaraj University,  
Madurai, Tamil Nadu, India.

**Organized By**

**SCHOOL OF CHEMISTRY, MKU**

**In Collaboration With**

**SCHOOL OF ENERGY, ENVIRONMENT &  
NATURAL RESOURCES, MKU**

**In Association With**

**MRSI Trichy Chapter**



**IC-HEAAMEA 2026**



### ABOUT THE CONFERENCE

The International Conference on High Entropy Alloys and Advanced Materials for Energy and Environmental Applications (**IC-HEAAMEA 2026**) aims to bring together eminent scientists, academicians, researchers, industry professionals, and students to share knowledge, present cutting-edge research and discuss emerging trends in high entropy alloys and advanced materials for sustainable energy and environment. The conference will provide an international platform for collaboration, innovation and technology transfer addressing global challenges in clean energy, environmental remediation, and sustainable development.



### OBJECTIVES

- ✓ To provide a platform for presenting recent advances in High Entropy Alloys (HEAs) and advanced materials.
- ✓ To promote interdisciplinary research in advanced functional and sustainable materials.
- ✓ To discuss innovative materials and technologies for renewable energy and energy conversion.
- ✓ To identify emerging research challenges and future directions in sustainable materials and clean energy technologies.
- ✓ To facilitate knowledge exchange and international collaborations.
- ✓ To encourage and motivate young researchers and students towards frontier research.
- ✓ To strengthen academia-industry-research laboratory interactions.
- ✓ To promote the activities and scientific objectives of MRSI, Trichy Chapter.



### MAJOR THEME



#### 1. HIGH ENTROPY ALLOYS (HEAs)

- Design • Mechanical Properties
- Corrosion Additive Manufacturing
- Functional HEAs • Energy & Environmental Applications



#### 2. NANOMATERIALS & FUNCTIONAL MATERIALS

- Nanostructures • Thin Film Coatings & Functional Oxides • 2D Materials • MXenes • Quantum Materials • Composites



#### 3. ENERGY MATERIALS AND TECHNOLOGIES

- Batteries • Fuel Cells • Solar Cells
- Supercapacitors • Thermoelectric
- Hydrogen Production & Storage
- Energy Conversion



#### 4. ENVIRONMENTAL MATERIALS AND TECHNOLOGIES

- Wastewater Treatment • Carbon Capture • Photocatalysis • Air Pollution Control • Environmental Sensors • Green Remediation



#### 5. SUSTAINABLE AND SMART MATERIALS

- Biomaterials • Smart Materials
- Green Synthesis • Circular Economy • Sustainable Processing
- AI/ML in Materials



### About Materials Research Society of India (MRSI)

The Materials Research Society of India (MRSI), established in 1989, under the leadership of Prof. C. N. R. Rao promotes materials research across India through its Regional Chapters and Subject Groups. It recognizes outstanding scientific contributions through awards, lectureships, and annual technical meetings. As a founding adhering body of IUMRS, MRSI actively contributes to the global materials research community.



### MRSI Trichy Chapter

The MRSI Trichy Chapter was established in 2017 to promote materials research and strengthen collaboration among researchers, academic institutions and industries in the Tiruchirappalli region. The Chapter has organized and supported national and international conferences, workshops, lecture series and scientific programmes in emerging areas of materials science.



### INVITED SPEAKERS



**Dr. Aravind Kumar Chandiran,**  
Associate Professor,  
Department of Chemical Engineering,  
Indian Institute of Technology Madras, India.



**Dr. Sudip Kumar Batabyal,**  
Professor, School of Physical Sciences,  
Amrita Vishwa Vidyapeetham, Coimbatore, India.



**Dr. Jephias Gwamuri**  
Professor, Department of Applied Physics,  
The National University of Science and Technology,  
Zimbabwe.



**Dr. Smagul Karazhanov**  
Leading Researcher, Thin Films Laboratory,  
Institute of Solid State Physics,  
University of Latvia, Riga, Latvia.



**Dr. Vidya Ravindran**  
Associate Professor, Department of Physics,  
Anna University, Chennai, India.



**Dr. Mani Govindasamy**  
Associate Professor / Division Director,  
Division of Technology R&D of Research Center for  
Intelligent Medical Devices,  
Ming Chi University of Technology, Taiwan.



**Dr. Sivaprakash Paramasivam**  
Research Professor, Department of Mechanical  
Engineering, Keimyung University, Daegu 42601,  
Republic of Korea.



**Dr. Sivanantham Arumugam**  
Assistant Professor, Department of Materials Science  
and Engineering, Ajou University, Suwon 16499,  
Republic of Korea.



**Dr. R. Ajay Rakkesh** Research Associate Professor,  
Department of Physics and Nanotechnology,  
SRM Institute of Science and Technology,  
Chennai, India.



### CONTACT US

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**Dr. M. Jeyanthinath**  
Associate Professor  
Department of Materials Science  
School of Chemistry  
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Madurai - 625021, India.

**Organizing Secretary**  
**Dr. J. Annaraj**  
Associate Professor & Head  
Department of Materials Science  
School of Chemistry  
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Website: <https://mkuniversity.ac.in/new/ICHEAAMEA2026/scss/index.html>

# ORGANIZING COMMITTEE



## CHIEF PATRON

Vice-Chancellor



## PATRON

Dr. S. Muthiah, Registrar i/c, MKU



## Chairman

- Dr. S. Murugesan, SOC, MKU
- Dr. M. Anand, SEEN, MKU



## MRSI CONVENER

Prof. S. Arumugam,  
Chairman and Secretary  
MRSI Trichy Chapter



## Organizers

- Dr. J. Annaraj, SOC, MKU
- Dr. V. Padmini, SOC, MKU
- Dr. B. Vijayabasker, SEEN, MKU
- Dr. M. Jeyanthinath, SOC, MKU



## Co-Organizers

- Dr. A. Siva, SOC, MKU
- Dr. P. Suresh, SOC, MKU
- Dr. S. Sivakumar, SOC, MKU



## Executive Members

- Dr. G. Gnanakumar, SOC, MKU
- Dr. M. Rajan, SOC, MKU
- Dr. A. Dhakshinamoorthy, SOC, MKU
- Dr. P. Kalyani, DDE, MKU
- Dr. Arockiya Das, DDE, MKU

## Awards & Recognition

### Young Scientist Award

For scientists below 40 years of age. Recognizes exceptional research contributions in Materials Science and Technology.

### Woman Scientist Award

For researchers above 40 years of age. Recognizes the outstanding contributions and achievements of women scientists in the field of Materials Science and Technology.

### Outstanding researcher Award

For scientists of age. Recognizes exceptional between 40 – 50 years research contributions in Materials Science and Technology.

### Senior Scientist Award

For researchers between 50 – 60 years of age. Honours distinguished scientific achievements, sustained research excellence, and significant contributions to the field of Materials Science and Technology.

### Lifetime Achievement Award

No age limit. Recognizes significant and sustained contributions, achievements, and excellence in Materials Science and Technology.

**(Note: Life Members in MRSI Trichy Chapter are Eligible to Apply for the Award)**

**MRSI award application deadline: 28 October 2026**

### Best Oral & Poster Presentation Awards

Presented by the IC-HEAAMEA 2026 Organizers. Awards will be presented to outstanding participants for the best oral presentation and best poster presentation.

### Award Form & Submission

The completed MRSI Award Application may be submitted as a soft copy to the conference email address. Please mention "MRSI Award Application – [Award Category]" in the subject line of the

email: [icheaamea2026@mkuniversity.ac.in](mailto:icheaamea2026@mkuniversity.ac.in)



Scan the QR, click Awards & Recognition to Download application Form



## REGISTRATION DETAILS



**REGISTER HERE**

For registration click the link

<https://forms.gle/nWxV2gbuXHBNSqBc9>



## IMPORTANT DATES

|                                   |            |
|-----------------------------------|------------|
| Abstract Submission Opens         | 01.10.2026 |
| Last Date for Abstract Submission | 25.10.2026 |
| Acceptance Notification           | 27.10.2026 |



## PAYMENT DETAILS

Bank: State Bank of India  
A/C No: 45601283899  
IFSC Code: SBIN0002235  
SWIFT Code: SBININBB454  
A/C Name: The Organizing Secretary IC-HEAAMEA & The Chairperson  
Branch Name: Madurai Kamaraj University Branch



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## REGISTRATION FEES

| Category         | Fee (₹) for Indian Participants | Fee (\$) for Foreign Participants |
|------------------|---------------------------------|-----------------------------------|
| Students         | 500/-                           | 10 \$                             |
| Research Scholar | 750/-                           | 15 \$                             |
| Faculty Members  | 1000/-                          | 25 \$                             |
| Industry Persons | 2000/-                          | 100 \$                            |

## Publication Opportunity

1. Zeitschrift für Physikalische Chemie
2. Discover Environment

For More details please visit our website:

<https://mkuniversity.ac.in/new/ICHEAAMEA2026/scss/index.html>



## OUR SUPPORTERS

