

### ABOUT ICRAEMA-23

International Conference on Recent Advances in Energy Materials and its Applications (ICRAEMA-23) is organised by the Department of Physics Pachhunga University College, a constituent college of Mizoram University and held on 30<sup>th</sup>-31<sup>st</sup> May 2023. ICRAEMA-23, commemorates India's G-20 Presidency from 1<sup>st</sup> December 2022 to 30<sup>th</sup> November 2023. The event is funded by Mizoram University.

### SCOPE

ICRAEMA-23 is a two-day scientific event consisting of the following disciplines:

- 1) Batteries, Supercapacitors, Solid-state Electrolyte and Electrode
- 2) Energy Materials for reduction of greenhouse gases
- 3) Energy Harvesting Materials and Technology.
- 4) Piezoelectric, Thermoelectric and Dielectric Materials.
- 5) Energy Materials for Fuel Cells.
- 6) Hydrogen Energy: Production and Storage.
- 7) Energy Materials for Solar cell, Superconductor, Topological Insulators.
- 8) Water splitting: Photocatalysis and Electrocatalysis
- 9) Advanced Materials for Optoelectronics and spintronics

### OBJECTIVES

The main objectives of ICRAEMA-23 are as follows:

- 1) To celebrate the Presidentship of India in G-20.
- 2) To promote science and technology
- 3) To tackle current issues of energy crisis
- 4) To explore energy research, innovation, and technology.
- 5) To share ideas and knowledge in the field of new energy materials.
- 3) To motivate new research in development of energy materials and sustainable technologies.

### ORGANIZING COMMITTEE

**Chairman:**

Dr. Lalhriatzuala, HOD

**Secretary:**

Dr. Dibya Prakash Rai

**Members:**

1. Dr. Shivraj Gurung
2. Dr. Y. Rangeela Devi
3. Dr. Lalrinthara Pachuau
4. Dr. N. S. Singh
5. Dr. Lalmuanpuia Vanchhawng

### ABOUT THE COLLEGE

Pachhunga University College is the only constituent college of Mizoram University. The college is NAAC A+ accredited for 2 consecutive cycles and funded by DBT under Star College Scheme. Also, it is one of the few colleges in India, which have been granted 'College with Potential for Excellence' by the UGC.

### CHIEF PATRON

**Prof. Pravakar Rath,**  
Vice Chancellor,  
Mizoram University

### PATRON

**Prof. H. Lalthanzara,**  
Principal,  
Pachhunga University College

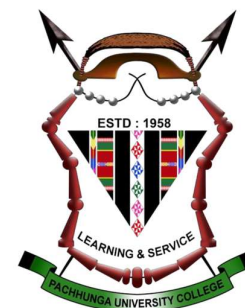
### ADVISORY COMMITTEE

1. **Prof. Diwakar Tiwari**  
Dean, School of Physical Sciences, Mizoram University
2. **Prof. Zaithanzauva Pachuau**  
Head, Dept. of Physics, Mizoram University
3. **Prof. R. C. Tiwari**  
Professor, Dept. of Physics, Mizoram University,
4. **Prof. Suman Rai**  
Professor, Dept. of Physics, Mizoram University
5. **Prof. B. Lalremruata**  
Professor, Dept. of Physics, Mizoram University
6. **Dr. Hranghmingthanga**  
Associate Professor, Dept. of Physics, Mizoram University
7. **Dr. Lalthakimi Zadeng**  
Assistant Professor, Dept. of Physics, Mizoram University
8. **Dr. Zodinmawia**  
Assistant Professor, Dept. of Physics, Mizoram University

## International Conference on Recent Advances in Energy Materials and its Applications (ICRAEMA-23)

30<sup>th</sup> – 31<sup>st</sup> May 2023

**Theme: Energy Materials**



Organized by

**Department of Physics  
Pachhunga University College,  
Mizoram University  
Aizawl, Mizoram  
India**



## KEYNOTE SPEAKER



**Prof. Subhradip Ghosh**  
Professor

Department of Physics, Indian Institute of Technology Guwahati (IITG), Guwahati, Assam, India

Prof. Ghosh completed his M.Sc. in Physics from Jadavpur University Kolkata and PhD from S.N. Bose National Centre for Basic Sciences, Kolkata. He did his first post doc from Department of Physics & Astronomy, Rutgers University, USA, Nov. 2000-Aug. 2003. His second post doc was from Department of Materials Science & Engineering, University of Illinois at Urbana-Champaign, USA, 2003-2004. He joined Department of Physics IIT Guwahati on October 2004. His research interest is mainly on computational materials science, electronic structure calculations and physics of chemically disordered alloys, magnetic materials, complex oxides, materials in low dimensions.

## INTERNATIONAL SPEAKERS



**Prof. Soorathep Kheawhom**  
Professor, Department of Chemical Engineering, Faculty of Engineering, Chulalongkorn University, Bangkok, Thailand



**Prof. Madhav Prasad Ghimire**  
Associate Professor, Central Department of Physics, Tribhuvan University, Kirtipur, Kathmandu, Nepal



**Prof. Keshav Shrestha**  
Assistant Professor, Department of Chemistry and Physics, West Texas A&M University, Canyon, Texas 79016, USA

## NATIONAL SPEAKERS



**Prof. Amit Arora**  
Associate Professor,  
Department of Materials Engineering,  
Indian Institute of Technology (IIT) Gandhinagar, Gujarat, India



**Prof. Utpal Sarkar**  
Assistant Professor  
Department of Physics  
Assam University Silchar Assam, India

## VENUE

Seminar Hall, Pachhunga University College, Aizawl, Mizoram (Offline)

## REGISTRATION

GPay Link for registration:



- Students/Research-scholars (Presenter/non-presenter): **Rs. 200.00/-**
- Postdoc/Scientist/Faculty (Presenter/non-presenter): **Rs. 300.00/-**

## IMPORTANT DATES

Last date for Registration for presenter:

**20 May 2023**

Last date of Registration only for participation ((non-presenter)):

**25 May 2023**

**Note:** Presenters may submit the abstract (100 words, containing title, detail of authors and email) along with the transaction number of payment of registration fee (may be screenshot).

Email: [physics.puc@gmail.com](mailto:physics.puc@gmail.com)

+91 87309 26422/+918132832252