



## 2nd International Conference

on

# Energy Resources and Technologies for Sustainable Development

## ICERTSD 2023

### 27-28 April 2023

Under the aegis of

### IEST Mech Centenary Conferences & Symposia (CCS) 2023

Organized by

## Department of Mechanical Engineering

# Indian Institute of Engineering Science and Technology, Shibpur



### ABOUT THE CONFERENCE

The objective of this conference is to create an effective forum for exchanges of innovative ideas and research information in energy technologies and the associated core areas of science and technology, such as, thermal engineering and thermofluidics, environment and climate change, energy materials etc. Prime focus though will remain on renewable and alternative energy technologies. The first ICERTSD was held way back in 2013 that was graced by about a dozen plenary and invited speakers besides more than 200 technical papers that were presented in four parallel sessions. More information and glimpses of the past event can be found at <https://sites.google.com/site/icertsd2013>.

Second version of this conference is to take place concurrently with another conference (International Conference on Mechanical Design and manufacturing, ICMDM 2023) as a part of the Centenary Conferences and Symposia (CCS) 2023.

### THEME AREAS

Full length research papers of original quality are solicited on the conference topics listed below as well as on other topics not explicitly mentioned herein but are well related to the theme of the conference.

- Biomass energy conversion
- Thermo-fluidics, heat transfer and CFD
- Energy systems analysis and management
- Climate change and global warming
- Environment and sustainability
- Energy economics and energy policies
- Energy storage
- Hydrogen and fuel cells
- Solar thermal and photovoltaics
- Hydro, ocean, wind, wave and geothermal
- Waste to energy conversion
- Building energy systems
- Alternative technologies for fossil fuels
- Nuclear energy
- Distributed generation and micro-grid
- EVs and batteries
- IC engines and biofuels

Research papers to be submitted in the conference format (available on conference website) within the submission deadline through proper submission link (given in the website).

### REGISTRATION

Every accepted paper must be backed by a registration to be eligible for inclusion in the conference proceeding. Requisite fees as applicable for national and international delegates to be paid as per the registration guideline (refer to the website).

Students: INR 1000

Academia: INR 2500

Industry: INR 3000

International participant: USD 80

Registration beyond the deadline will attract a late registration fee of INR 500 (50 \$ for international participants) and will be subjected acceptance from conference Chair.

Registered participants may attend the conference physically or virtually.

### MODE OF CONFERENCE

Hybrid

### PUBLICATION

All accepted and presented papers will be included in conference proceedings (electronic) and considered for publication as book chapter/special journal issue of reputed publishers (Springer or equivalent), subject to the review.

### ABOUT THE INSTITUTE & DEPARTMENT

Indian Institute of Engineering Science and Technology (IEST), Shibpur (Erstwhile 'Bengal Engineering College') is the first institute to become IEST in India in 2014. The Institute has a rich history. It is empowering the nation since 1856. Considering the year of establishment, it is the 3rd engineering college in India but considering the year of graduation it is the 2nd oldest engineering college in India. It has 16 departments and 8 schools. It has over 250 faculty members and a student strength of over 4000. The institute has a beautiful green campus covering an area of nearly 49 hectares on the western bank of the river Hooghly.

Department of Mechanical Engineering, IEST Shibpur, has completed 100 years of its existence in 2021. The inception of the Mechanical Engineering Department may be traced back to the pre-independence era of the country, with the initiation of a diploma course in Mechanical Engineering in 1921. The first degree level course in Mechanical Engineering started on 18th July 1930. Post-graduate course in the department started in the year 1954. Over the years, through its high level of teaching and research in mechanical engineering, the department, has earned a name and fame for itself, making significant contributions to this important field of engineering. The Department offers 8-Semester Undergraduate (UG) and 4-Semester Postgraduate (PG) courses in Mechanical Engineering, with current annual intake of 92 students in UG and 30 students in PG. A 10-semester Dual Degree B.Tech-M.Tech program is also in place. Currently, the PG courses are available in three specializations, namely, Machine Design, Thermal Engineering, and Manufacturing Science, leading to the degree of Master of Technology. The department also runs a full-time PhD program, where currently about 40 research scholars are engaged.

### IMPORTANT DATES AND TIMELINES

Full paper submission: 25<sup>th</sup> March 2023

Notification of acceptance : 31<sup>st</sup> March 2023

Registration opens: 3<sup>rd</sup> April 2023

Registration close: 17<sup>th</sup> April 2023

Conference: 27-28<sup>th</sup> April 2023

A pre-conference workshop/symposia will be organized on 26<sup>th</sup> of April as a part of the conference.

### CONTACT

Chairman: Dr. Sudip Ghosh, HoD, Mechanical Engineering Department

Coordinators:

Dr. Pradip Mondal

Dr. Mukesh Kumar

Conference Email: [icmdm.iestmech@gmail.com](mailto:icmdm.iestmech@gmail.com)

Chairs' Email: [ghoshsudip@mech.iests.ac.in](mailto:ghoshsudip@mech.iests.ac.in)

Ph: + 91 33 2668 4561/62/63 Ext 279

Whatsapp: 094754187191/ 07500694948

### EVENT WEBSITE

[ccsiestmech.in](http://ccsiestmech.in)

