

3.	Faculty from Educational Institution	3,000.00+18%GST
4.	Research Scholars/Post Docs/Under-graduates/ Post-graduates	1500.00+18%GST
5.	Company Registration: up to 5 delegates	20,000.00 +18%GST
6.	Delegates from Abroad	US \$ 300 +18%GST
7.	Sponsor	200,000.00 + 18%GST
8.	Co-Sponsor	100,000.00+18%GST

### Technical Exhibition

A technical exhibition organized concurrently with NSEST – 2023 offers the companies to promote their latest developments and products in the field of Electrochemistry, Energy, Environment and Corrosion, while ensuring the quality of business contacts. About 200 researchers, scientists, industrialists and allied professionals from all over the country are expected to attend the ICWEC – 2023. Exhibition stalls will be allotted on first come first serve basis. Further information about the stalls can be obtained from the Convener of the conference. The fee for the standard stall (3 x 3 m) for Indian company/organization is Rs. 75,000/-. Extra GST 18% The stall contains standard power supply, lighting, table, chairs and display boards for displaying pamphlets and charts. Free registration for two delegates is permitted.

### Registration fee is payable by Online favouring:

The Electrochemical Society of India, Bengaluru  
Bank Details: Canara Bank | A/c. No: 068310100 1616 |  
IFSC Code: CNRB0000683  
Branch: IISc Bengaluru | For Queries: nsest2023@gmail.com/  
ecsiisc@gmail.com, Mobile: 9945105791/9686543725

### MAILING ADDRESS FOR REGISTRATION DETAILS

#### Dr. B.V. Sarada & Dr. Prathibha B.S

Co-Convener & Gen. Secretary, ECSI  
Electrochemical Society of India, Indian Institute of Science  
Campus, Bengaluru-560012  
Email: [nsest2023@gmail.com](mailto:nsest2023@gmail.com), [ecsiisc@gmail.com](mailto:ecsiisc@gmail.com),  
[sarada@arci.res.in](mailto:sarada@arci.res.in), Mobile:9945105791/9963978039

### National Advisory Committee

**Dr. E.S. Dwarakadasa** (KHMD Ltd., Bengaluru & Former President, ECSI)  
**Prof. U. Kamachi Mudali** (Vice-Chancellor, Homi Bhabha National Institute (HBNI) University, Mumbai & Former President, ECSI)  
**Dr. H.B. Rudresh** (Vijay Metal Finishers Bengaluru & Former President ECSI)  
**Dr. V.S. Raja** (IIT – Bombay & Vice President, ECSI)  
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**Prof. S. Sampath** (IPC, IISc & Vice President, ECSI)  
**Dr Tata Narasinga Rao** (Director, ARCI)  
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### PROF. T.L. RAMA CHAR MEMORIAL LECTURE

#### Sponsored by



The Malleswaram Co-operative Bank Limited, Bengaluru

#### Award Sponsors:

Biosafe Solutions, Bengaluru.  
CMP Private Limited, Mumbai.  
Metrohm India Pvt Ltd, Chennai.  
Amara Raja Batteries Ltd, Nagari.  
Dr. Elayaperumal Family.

#### Participants can register using the following google form link:

<https://docs.google.com/forms/d/e/1FAIpQLScLYcKW7tlyl09GZkKjrjOfKlikvHwzmz5t407wkv-Oh97i8Gw/viewform>

## NATIONAL SYMPOSIUM ON ELECTROCHEMICAL SCIENCE AND TECHNOLOGY [NSEST - 2023]

Focused Theme: Towards Self-Reliance in  
Electrochemical Technologies

Date: August 17 &18, 2023

Venue: ARCI, Hyderabad



### ORGANIZED BY

**THE ELECTROCHEMICAL SOCIETY OF INDIA,**  
IISc CAMPUS, BENGALURU  
&  
**ARCI, HYDERABAD**

### ORGANIZERS

**Dr. S.T. Aruna**, Chairman NSEST-2023, President ECSI  
**Dr. R. Subasri**, Convener, ARCI  
**Dr. B. V. Sarada**, Co-convener, ARCI  
**Dr. B.S. Prathibha**, Gen. Secretary, ECSI

## ABOUT NSEST-2023

The Annual "National Symposium on Electrochemical Science and Technology", NSEST – 2023 provides a platform for those working in the area of electrochemical science and technology from R&D, Academia, and Industry to present their findings and interact and deliberate on different aspects of electrochemical science and technology. It provides an exclusive platform for graduate and postgraduate students, research scholars, and young faculties to present their research findings. NSEST also provides a great opportunity for all stakeholders in electrochemical science and technology to collaborate and contribute together for the application of R&D findings in the industry.

Papers are particularly welcome, but are not restricted to the following fields:

1. Electrochemical H<sub>2</sub> Production, Storage & Applications.
2. Electrochemical Energy Systems: Batteries, Supercapacitors, Fuel Cells, Energy Storage
3. Renewable energy & Alternate Energy
4. Analytical Electrochemistry: Sensors, Environment & Pollution Control
5. Corrosion & Materials Protection
6. Surface Engineering & Metal Finishing
7. Metallurgy & Materials Science : Electrosynthesis & Electrometallurgy, Novel Electrode Materials.
8. Nanotechnology & Electrochemistry
9. Electrochemistry application in Industrial applications of Electrochemistry

## About the Electrochemical Society of India (ECSI)

The Electrochemical Society of India, has been in existence at the IISc Campus for over 60 years. It is a Professional Society to provide a platform for discussions in the area of Electrochemistry, Corrosion, Batteries, Coatings, Electroplating and Forming, and other Electrochemical Science and Technology areas. A significant activity of ECSI is the publication of the Journal of the Electrochemical Society of India (JECISI), which is presently completing 71 years of continuous publication. The Society has a collection of over 3000 books in various fields of Electrochemical Science and Technology. Members may visit the library and make use of the books.

Annual Technical Meetings organized by the Society during the month of July every year have been very popular among the electrochemical community. A special feature of these meetings is the encouragement given to students and teachers.

Membership is open to Individuals and Institutions in different categories: Individual, Industrial, Corporate, Life Members, Donor, Patron and Student. Those desirous of becoming members may write to the Hon. General Secretary for further details.

The Society awards the following in recognition of merit in the area of Electrochemical Science and Technology:

1. S.K. Seshadri Memorial MASCOT National Award in Corrosion.
2. N. M. Sampat Award in Metal Finishing.
3. Life Time Achievement Award.
4. Metrohm National Award for Electrochemical Science.
5. Amararaja National Award for Advanced Electrochemical Technology.
6. Dr. K. Elayaperumal National Award for Excellence in Industrial Electrochemical Science and Technology.

ECSI organizes the following special lectures every year to honour persons connected with the Society.

1. Prof. T. L. Rama Char Memorial Lecture
2. Prof. B. S. Seshadri Memorial Lecture
3. Dr. S. Krishnamurthy Memorial Lecture
4. Prof. S. M. Mayanna Endowment Lecture

## About ARCI

International Advanced Research Centre for Powder Metallurgy and New Materials (ARCI) established during the year 1996-97, is an autonomous Research and Development Centre of the Department of Science and Technology (DST), Government of India with its main campus at Hyderabad, spread over an area of around 95 acres of land, Telangana and with operations in Chennai and Gurugram. A unique feature of ARCI's mandate relates to the fact that application-oriented R&D is carried out and is industry-centric. To ensure that multi-disciplinary inputs can be readily harnessed for any of its targeted development efforts, ARCI has formed Centres of Excellence (COEs) in many generic thrust areas related to materials and materials processing, like nanomaterials, ceramics, engineered coatings, fuel cells, carbon materials, sol-gel coatings, laser materials processing, solar energy materials and automotive energy materials. Each of these COEs has been involved in the development of advanced materials-based technologies pertaining to their core expertise.

ARCI has been undertaking numerous sponsored projects with a variety of government agencies to develop specific products and/or associated technologies, besides carrying out contract research for both foreign and Indian companies. ARCI has also

been carrying out basic R&D work, especially in collaboration with renowned institutes/laboratories worldwide. ARCI also provides testing and production characterization, consultancy, training as well as literature and patent search in areas of core competence.

ARCI has recently undertaken a major task to develop LIB technology for electric vehicles by setting up a pilot plant facility for manufacturing of electrode materials, Lithium-ion cells and battery packs for automotive applications. The objective is to establish the LIB technology and demonstrate off-line/on-board vehicle testing. New materials for next-generation energy storage devices including Li-S, Ni-ion batteries and supercapacitors are also being developed indigenously. In addition, core research and technology development on chrome-free environmental-friendly corrosion protection coatings, PEM fuel cells, solar photovoltaic cells etc. are being extensively carried out.

ARCI has transferred technologies to more than 40 companies and developed about 200 technological solutions for industrial and strategic sectors.

## Advertisement in the Souvenir:

A Symposium containing Abstracts of All papers presented at the conference will be published and will be available at the registration desk. Advertisement will be accepted in areas relevant to the theme of the conference at the following Tariff:

Sl. No	Particulars	Amount
1.	Full Page Colour	30,000.00+18%GST
2.	Back Cover Page Colour	50,000.00+18%GST
3.	Inside Cover Page (2) Colour	35,000.00+18%GST
4.	Inside Full Page in Black and	10000.00+18%GST

## IMPORTANT DATES AND DEADLINES

Last date for sending in abstracts: June 30<sup>th</sup>, 2023

Notification of acceptance: July 15<sup>th</sup>, 2023.

Last date for sending in full paper: August 5<sup>th</sup>, 2023

Selected papers present in the event will be published as a Book by Springer India, and some papers in The Journal of Electrochemical Society of India after peer review.

## The Registration fee:

Sl. No	Particulars	Amount in INR (Rs.)
1	Individuals	5,000.00+18%GST
2.	Members of ECSI	4,000.00+18%GST