

**मुख्य संरक्षक/CHIEF PATRON**

Dr. K. Ramesha  
Director, CSIR-CECRI



**आयोजन समिति /ORGANIZING COMMITTEE**

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Dr. S.M. Rajendran - Coordinator  
Dr. S.M. Senthilkumar - Convener  
Dr. A. Pandikumar - Co-Convener  
Dr. N. Lakshminarasimhan - Member

**अधिक जानकारी के लिए कृपया संपर्क करें/**

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**इलेक्ट्रोकेटलिस्ट सामग्री डिजाइनिंग कार्यशाला:  
सिद्धांत और पद्यति प्रशिक्षण**

**पर  
डीएसटी-एसईआरबी द्वारा प्रायोजित दो दिवसीय अपस्किंग  
कार्यशाला**

**Two days DST-SERB Sponsored Upskilling Workshop**

**on**

**Workshop on Designing Electrocatalyst Materials:  
Theory and Methods Training**

**18-19  
दिसंबरDecember  
2024**



**कौशल विकास समूह  
सीएसआईआर-केंद्रीय विद्युतरसायन अनुसंधान संस्थान  
कारैकुडी-630003, तमिलनाडु  
द्वारा आयोजित**

**Organized by**

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## सीएसआईआर-सीईसीआरआई के बारे में /About CSIR-CECRI

CSIR-Central Electrochemical Research Institute (CECRI), a pioneering research institute in the area of electrochemical science and technology, was founded by the great visionary Dr. RM. Alagappa Chettiar in 1948 with the support of Pandit Jawahrlal Nehru and Dr. Shanti Swarup Bhatnagar. CECRI was established as the 12th National laboratory under the Council of Scientific and Industrial Research (CSIR), Gol, New Delhi. The Institute works on a gamut of problems covering all facets of Electrochemical Science and Technology: Corrosion Science and Engineering, Electrochemical Materials Science, Electrochemical Power Sources, Electrochemical Pollution Control, Fundamental Electrochemistry, Electro-Metallurgy, Industrial Metal Finishing and Functional Materials. CSIR-CECRI is the largest research establishment for electrochemistry in Asia. It serves as a launching pad for a multitude of technologies for the India electrochemical industry. Over 750 patents, 250 processes, 600 sponsored and grant-in-aid projects, 450 licensees and 5,500 research & review papers are ample testimony to its leadership in nation building.

## विषय और कार्यशाला के बारे में /About the topic and Workshop

CSIR-CECRI is pleased to announce a two days DST-SERB Sponsored up-skilling training workshop on “**Workshop on Designing Electrocatalyst Materials: Theory and Methods Training**” during 18th - 19th December 2024. The main objective of this programme is to disseminate knowledge and introduce the principles of solar energy harvesting through photovoltaic technology to young scholars, researchers and faculties. In addition to formal lectures on theoretical fundamental principles of the subjects, there will be an opportunities for the participants to get the hands-on training on to device fabrication, testing and data analysis.

## शामिल किए गए विषय/Topics Covered

The main area covered in this programme are:

- ❖ MXenes, LDH materials, porous carbon and metal oxide materials
- ❖ Electrodeposition of MXenes, co-precipitation of LDH and metal oxides
- ❖ Materials for electrochemical hydrogen evolution and oxygen evolution
- ❖ Materials for environmental applications

### Practical classes on

- ❖ Electrochemical thin film formation of LDH and metal oxides
- ❖ Electro-catalysis using thin film electrodes for environmental & energy reactions
- ❖ I-V curve and EIS measurements of electrodes/ materials
- ❖ Long-term stability analysis and Data analysis

## पंजीकरण विवरण/Registration Details

<b>Registration fees</b>	<ul style="list-style-type: none"><li>▪ Rs. 1000/- for Researchers/ Professors/Teachers</li><li>▪ Rs. 700/- for PhD Scholars/ UG Final year/ PG Students</li></ul>
<b>Fee payable at</b>	<ul style="list-style-type: none"><li>▪ Name of the Bank : Indian Bank</li><li>▪ Name of the Account: IRF-CECRI</li><li>▪ Type of the Accounts: Savings</li><li>▪ Bank A/c No: 737253625</li><li>▪ IFSC code: IDBI000A008</li></ul>

- ❖ Registration Fee covers two time refreshment in a day and working lunch.
- ❖ Deadline for payment of registration fee is on or before **05.12.2024**.
- ❖ Number of registrations are limited to 25 on first come first served basis.
- ❖ Accommodation will be arranged on twin sharing basis in CECRI on payment basis at the charge of Rs. 600/- (per day/ per person).
- ❖ The Registration Fee is non refundable.

Registration link: <https://forms.gle/UnymdRaCxzcLB3xE6>