

Current Trends and Futures Aspects of the Development of Fuel Cell & other Energy Storage Technologies

(Under the KARYASHALA Scheme - A SERB initiative)

May 29 - June 2 2023

Funded By

Science and Engineering Research Board (SERB), Department of Science and Technology, Government of India under Accelerate Vigyan Scheme

Organized by

Department of Energy and Environment, National Institute of Technology, Tiruchirappalli

About the Institute and the Department

The National Institute of Technology Tiruchirappalli (formerly known as Regional Engineering College, Trichy) is situated in the heart of Tamil Nadu on the banks of river Cauvery. Since its inception in 1964, it has established itself as a premier institute imparting quality technical education and engaged in research and development in different fields. The institute offers ten Undergraduate programmes and twenty-seven Post Graduate programmes in Science, Engineering & Technology, besides M.S. (by Research) and Ph.D. in all the departments. NIT Trichy is located about 22 km from Tiruchirappalli Junction / Central Bus stand on the Trichy Thanjavur Highway. Department of Energy and Environment (DEE herein, formerly known as CEESAT) was established in 1995 under the UK India REC project. MTech. (Energy Engg.), an interdisciplinary full-time programme is offered since 1996. The research and development activities of DEE include CO₂ capture and sequestration, effluent treatment using solar energy / phytoremediation, energy modeling, coal and biomass conversion, wind energy, solar PV/ thermal systems, energy-efficient building, and energy storage devices. The department is committed to convert its research into a real-time technology transfer to the society and industry where it meets out its ultimate objective.

Who can attend: Karyashala is open to research scholars/ postgraduate students from all Institutes. The applications will be screened, and the candidates will be selected on merit. The selection committee's decision will be final in the selection of candidates. Certificates will be provided to the participants after the successful completion of the workshop. Selected participants will be accommodated in institute guest house/hostel rooms (if available) with catering facilities under the funds approved by SERB (as per norms).

The participating students will be eligible for TA reimbursement for their journey to the host institute from their hometown/home institute, both ways for the train or bus's lowest fare, as per the GoI norms. **There is no registration fee. Limited seats are available, Allotment will be on first come first serve basis. Those who want to register, kindly register <https://forms.gle/jbm3YF7vm9M7c3G6A>**

Objectives of the Workshop

- To provide the candidates the detail knowledge of Fuel Cells for future energy to facilitates faster learning curves to the students primarily from universities, colleges, private academic institutions.
- To provide the review, design, operation and hand on experience on the energy storage devices with emphasis on the hydrogen-based fuel cells in operations today.
- Learning objectives involves the electrochemistry of the fuel cells, conversion of hydrocarbon-based fuels to hydrogen, zero emission vehicles and development of new technologies in energy storage
- Energy storage technologies issues and career opportunities
- To bring together experts, researchers, students and industry to explore Fuel Cell technologies as well as other allied fields related to Energy Storage, and thereby shoulder the responsibility towards achieving the Nation's goals. *"AatmaNirbhar Bharat, Make in India and Skill India"*

Sessions from skilled experts

- Academicians from reputed institutions (IITs, NITs)

Student Coordinator:

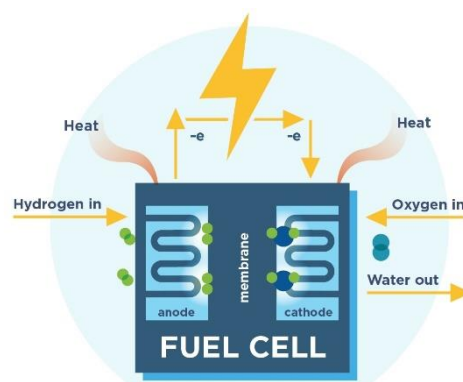
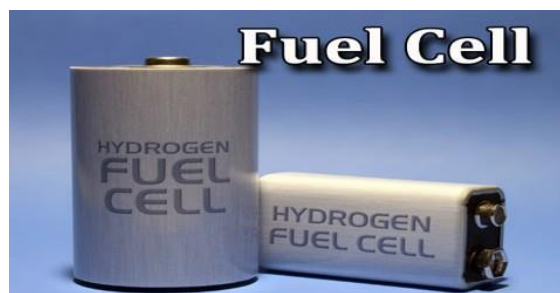
Mr Palkesh, Ms Lahari A
Ms Sowmya, Mr Rohit M
Ms STL Sravanthi
Mr Robin Chaudhary

For further queries contact at:

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adityakumar@nitt.edu

+91-8870923087; 7776823397



Important Dates

Registration opens

May 10th 2023

Last date for application

May 20th 2023

Announcement of shortlisted candidates

May 22nd 2023

Workshop dates

May 29- June 5,

Patron

Dr. (Mrs.) G. Aghila
Director, NIT Tiruchirappalli

Convenor

Dr Ruben Sudhakar D
Associate Professor & Head
Dept. of Energy & Environment

Event Organizers

Dr Aditya Kumar
Assistant Professor
Dept. of Energy & Environment

Dr D V Siva Krishna Rao
Assistant Professor
Dept. of Energy & Environment

Advisory Committee

Dr M Premalatha
Professor
Dept. of Energy & Environment

Dr Jaganathan VM
Assistant professor
Dept. of Energy & Environment

Registration Form
Application for High-End Workshop
(KARYASHALA)

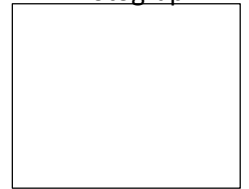
on
**“Current Trends and Futures Aspects of the Development of Fuel Cell & other Energy
Storage Technologies”**

(Physical mode)
(Under the Accelerate Vigyan Scheme – a SERB Initiative)

May 29 - June 2 2023

Department of Energy and Environment, NIT Tiruchirappalli, Tamilnadu-620015

Photograph



Name:

Course (PG/Ph.D.):

Enrolment Number:

Year of Study:

Department:

Institute/University:

Mailing Address:

Mobile:

E Mail:

The above information provided is true and to the best of my knowledge. If, selected, I agree to abide by the rules and regulations of the program.

Signature of Candidate

Endorsement cum No Objection Certificate from the Head of the Department/ Thesis Supervisor

(To be given on University/ Institute/ College Letter head)

This is to certify that:

1. Mr. / Ms. / Mrs. _____, is a bonafide student of our University / Institute / College and will assume full responsibility for actively participating in the **High-End Workshop** titled “*Current Trends and Futures Aspects of the Development of Fuel Cell & other Energy Storage Technologies*” sponsored by SERB-DST under the Accelerate Vigyan Scheme, scheduled from May 29 - June 2 2023 organized by Department of Energy and Environment, NIT Tiruchirappalli.
2. The Applicant is a Full-time / part-time student of our University/ Institute/ College and enrolled in M Tech / M.S. / PhD Programme in Department.
3. The candidate has secured _____% / CGPA / CPI till date (if applicable).
4. The candidate is currently carrying out research/project as a part of his/her course curriculum and has completed the core courses of the program.
5. The University/ Institute/ College also endorses the conduct of the applicant to be of highest order who bears a good moral character.
6. The University/ Institute/ College has “No-Objection” for the candidate participation during the above said period.
7. The candidate, if selected for participation, shall be duly permitted to participate in the High-End Workshop via physical mode. The University/ Institute/ College may provide the necessary facilitation needed for this purpose.

Date:

Place:

Signature and Seal with name

(Head of the Department/ Thesis Supervisor)