



7<sup>th</sup> Hydrogen Workshop #startupindia

titled

# Fostering Start-up Ecosystem for Commercialization of Hydrogen Technologies

Commemorating

*National Hydrogen & Fuel Cell Day* | 10-08



on

8<sup>th</sup> October, 2024

Centre for Fuel Cell Technology

International Advanced Research Centre for Powder  
Metallurgy and New Materials (ARCI)

An Autonomous R&D Centre of Dept. of Science & Technology, Government of India

Venue : Raman Hall, E-Block, IIT Madras Research Park, Chennai

E-Mail: 2024h2fc@gmail.com

## ABOUT CENTRE FOR FUEL CELL TECHNOLOGY (CFCT), ARCI

CFCT, one of India's premier centres, is working on developing Polymer Electrolyte Membrane Fuel Cells (PEMFC). The Centre has been at the forefront of PEMFC development in the country. During its last fifteen years of technological expedition, the centre has demonstrated PEMFC power packs with the required balance of systems for stationary applications as well as in electric vehicles as range extenders. In addition to the PEMFC development, as part of the hydrogen technology development, the centre has developed technology for hydrogen generation and materials for hydrogen storage.

The centre also endeavours to use the materials developed for fuel cells in other electrochemical and energy storage devices like batteries and super-capacitors. The centre has developed more than 15 know-how processes for technology commercialization of which 2 technologies had already transferred with industry. Further, more than 27 patents filed and over 240 research papers published in various international journals/conferences. One of the mandates of the centre is to include industries in its development for eventual commercialization. Knowledge dissemination and human resource development are also a part of the centre's objective. More than 10 candidates were awarded with Ph.D .

## ABOUT THE WORKSHOP

This workshop is conducted to commemorate “National Hydrogen and Fuel Cell Day” which was created to raise awareness of a clean energy technology based on Hydrogen. October 8<sup>th</sup> (10.08) was chosen as a National Hydrogen and Fuel Cell Day in reference to its atomic weight (1.008 amu).

Hydrogen Fuel Cell technologies are among the various pathways that could pave way to deploy renewable energy sources for all the energy related applications with CO<sub>2</sub>-free energy cycles. The aim and objective of this workshop is to encourage, develop and promote hydrogen energy and fuel cell and its applications in the country.

## HIGHLIGHTS

- Inspiring talks from start-up honchos, industrialists, and eminent scientists
- Interaction with leading researchers/technologists

7<sup>th</sup> - Hydrogen Workshop titled  
**Fostering Start-up Ecosystem for  
Commercialization of Hydrogen Technologies**

**AGENDA**

*Venue: Raman Hall, IITM Research Park, Taramani, Chennai*

**8<sup>th</sup> Oct 2024**

**09.00 - 10.00**

**Registration**

**10.00 - 11.00**

**Inauguration**

Welcome Address

**Dr. R. Vijay**

Director, ARCI

Special Remarks

**Dr. R. Gopalan**

Former Regional Director, ARCI Chennai

Workshop Introduction

**Dr. K. Ramya**

Head, CFCT, ARCI Chennai

Chief Guest

**Prof. MOHAMMAD RIHAN**

Director General, National Institute of Solar Energy (NISE)

Guest of Honour

**Dr. G.A. PATHANJALI**

Managing Director, High Energy Batteries, Mathur, Tiruchirappalli

Vote of Thanks

**Dr. R. Balaji,**

Senior Scientist, CFCT, ARCI Chennai

Photo Session

**11.00 - 11.15**

**High Tea**

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**PROGRAMME**

**08/10/2024**

11:15 - 12.00	<b>Dr. Ramadas Arumugam Sakunthalai</b> Director, Global Automotive Research Centre (GARC)
12.00 - 12:45	<b>Shri. Krishnan Sadagopan</b> Senior Vice President, Ashok Leyland & Independent Director, Indian Oil Corporation
12.45 - 13:30	<b>Networking Lunch</b>
13.30 - 13.50	<b>Dr. Nagesh Kini</b> Co-founder & CTO, Vimano Inc. <u>Title:</u> Challenges of membrane development in India: A Start-up perspective
13.50 - 14.10	<b>Prof. D. Sangeetha</b> Director, Centre for Composite Materials Institute of Energy Studies, Anna University
14.10 - 14.30	<b>Dr. Anand Vasappanavara</b> Principal Control & Automation Engineer, EH Group Systems Pvt., Ltd. <u>Title:</u> Deep Tech Start-up faces in the Indian ecosystem w.r.t. Hydrogen fuel cell power system development and commercialization

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14:30 - 14.50 **Shri. Subramanian**  
Co-founder, H2next  
Title: Fuelling the Future: Building Start-Up Ecosystems for Hydrogen Innovation

14.50 - 15:10 **Tea**

15.10 - 15.30 **Dr. M.J. Shankar Raman**  
CEO, Pravartak Technologies Foundation, IITM Research Park

15.30- 15.50 **Dr. K. Naga Mahesh**  
Director, Nanosol Energy Pvt. Ltd.  
Title: Prospects of Hydrogen as a Clean Fuel India

15.50 - 16.10 **Dr. Venkatesh Ambati**  
CTO, Zemblance Hydrocarbons  
Title: Hydrogen production via underground coal gasification: Harnessing Lignite's potential

16.10 - 16.30 **Mr. Ashlesh Walke**  
Director, Resicorre Coatings Pvt. Ltd.  
Title: Hydrogen – Road Ahead and Challenges

16.30 - 16.50 **Shri. Noah Jacob**  
CTO, Sakthi Photon Solution Pvt. Ltd.  
Title: On-site IoT based Hydrogen generator

**Concluding Remarks by Dr. V. Raman, Scientist , CFCT-ARCI**



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## REGISTRATION

- Registration to be made by filling up the google form along with payment made through Demand Draft / Cheque in favour of "ARCI" payable at Chennai or through NEFT transaction
- Google form: <https://rb.gy/y7jiab>
- Payment details are as follows:

Name of the Bank: **Union Bank of India**      Account number: **119810100009381**

Branch name: **Madhya Kailash Branch**      IFSC code: **UBIN0814971**

Address: Adyar Cancer Institute, Sardar Patel Road, Guindy, Chennai -600036

- Payment to be received on or before **6<sup>th</sup> October, 2024**.
  - Registration fee: For Faculty / Industry / Start-ups participants: Rs. 1500
  - For Students / Researchers: Rs. 750
- (The fee includes a workshop kit, participation certificate, lunch, and high tea)
- Participants are requested to make their own travel and accommodation arrangements.

## ORGANISING COMMITTEE

### Chairman

**Dr. R. Vijay**

Director, ARCI,

[director@arci.res.in](mailto:director@arci.res.in)

### Convener

**Dr. K. Ramya**

Head,

Centre for Fuel Cell Technology, ARCI

[ramya@arci.res.in](mailto:ramya@arci.res.in)

### Co-Conveners

**Dr. R. Balaji, Dr. V. Raman,**

Senior Scientists,

Centre for Fuel Cell Technology, ARCI

[rbalaji@arci.res.in](mailto:rbalaji@arci.res.in)

[vedarajan.raman@arci.res.in](mailto:vedarajan.raman@arci.res.in)

### Members

**Team CFCT**

Centre for Fuel Cell Technology, ARCI

## Contact Details

Centre for Fuel Cell Technology, ARCI

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