



Ninth Workshop
commemorating



National Hydrogen & Fuel Cell Day 10-08

on

Recent Advancements in Hydrogen Value Chain

Guest of Honor: Prof. R.R. Sonde, IIT Delhi-Abu Dhabi



13th October, 2026

Organized by

Centre for Carbon, Sol-Gel & Fuel Cell Technologies
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 : IIT Alumni Centre, C-Block 11th Floor IIT Madras Research Park, Chennai

E-Mail: h2fc2026ccsf@gmail.com

ABOUT ARCI

*International Advanced Research Centre for Powder Metallurgy and New Materials (ARCI) is an autonomous R&D Institute of the Department of Science and Technology (DST), Government of India, with a mandate to translate research into technologies and transfer them to industry. Spread across a 95-acre campus in Hyderabad, with state-of-the-art R&D infrastructure, and branches in Chennai and Gurugram, ARCI has evolved into a nationally significant, application-oriented and industry-centric organization in advanced materials and processing technologies. ARCI's R&D strengths are organized around five thrust areas: **Alternate Energy Materials and Systems, Advanced Ceramics, Advanced Engineered Coatings, Advanced Manufacturing, and Novel Materials**. These encompass cutting-edge work in areas such as advanced batteries, fuel cells, hydrogen storage and solar energy materials, engineered coatings, powder metallurgy, advanced ceramic materials, laser processing, additive manufacturing, carbon and nanomaterials. With strong capabilities in technology development, demonstration, scale-up and transfer, ARCI has transferred 36 technologies to more than 51 technology receivers and delivered 360+ technological solutions, through extensive collaborations with industries, universities and R&D institutions in India and abroad. ARCI also provides testing and characterization, consultancy, training, and technology and patent-related services, while undertaking sponsored and contract research aligned with national priorities and industry needs.*

*ARCI further supports technology translation through incubation facilities for startups and MSMEs, enabling validation, scale-up and deployment of innovative technologies. With its integrated ecosystem spanning research, infrastructure, pilot-scale demonstration and industry partnerships, ARCI is positioned to contribute to India's journey towards **Viksit Bharat 2047** through indigenous technology development, manufacturing innovation and strategic self-reliance.*

ABOUT Hydrogen and Fuel Cell Technologies @ ARCI

ARCI has been at the forefront of hydrogen and Polymer Electrolyte Membrane Fuel Cells (PEMFC) technologies in the country. During the last fifteen years of technological expedition, demonstration of PEMFC power packs with the required balance of systems for stationary applications as well as in electric vehicles as range extenders was successfully carried out. In addition to the PEMFC development, as part of the hydrogen mission, technologies for hydrogen generation (Electrochemical Methanol Reformer; Alkaline Electrolyzer etc.) and materials for hydrogen storage were developed. Know-hows for (a) fabrication of exfoliated graphite-based bipolar plates for PEM fuel cells; (b) synthesis of platinum-based electrocatalysts for PEM fuel cells and (c) hydrogen generation using an electrochemical methanol reformer were transferred to industries. ARCI also endeavours to use the materials developed for fuel cells in other electrochemical and energy storage devices like batteries and supercapacitors. More than 30 patents have been filed in the area of hydrogen & fuel cell technologies and published over 250 research papers in various international journals/conferences.

ABOUT THE WORKSHOP

This workshop is conducted to commemorate “National Hydrogen and Fuel Cell Day” to raise awareness of a clean energy technology based on Hydrogen. October 8th (10.08) was chosen as a National Hydrogen and Fuel Cell Day in reference to its atomic weight (1.008 amu). Hydrogen and Fuel Cell technologies are among the various pathways that could pave way to deploy renewable energy sources for all the energy related applications with CO₂-free energy cycles. The aim of this workshop is to encourage, develop and promote hydrogen energy & fuel cell along with its applications in the country.

HIGHLIGHTS OF THE WORKSHOP

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

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9th Workshop on
Recent Advancements in Hydrogen Value Chain
13th Oct 2026

Venue: *IIT Alumni Centre, C-Block 11th Floor IITMRP, Chennai*

AGENDA

09.00 - 10.00 **REGISTRATION**

10.00 – 11.20 **INAUGURAL SESSION**

10.00 - 10.05 **Address by**
Dr. R. Subasri
Associate Director, ARCI

10.05 - 10.25 **Address by**
Dr. R. Vijay
Director, ARCI

10.25 – 11.15 **Address by Guest of Honor**
Prof. R.R. SONDE
Professor, IIT Delhi - Abu Dhabi

11.15 – 11.20 **Vote of Thanks**
Dr. Sanjay R. Dhage
Head, CCSF-ARCI

11.20 - 11.50 **PHOTO SESSION & HIGH TEA**

PROGRAMME

13/10/2026

11.50 - 12.25	Dr. Aravind Kumar Chandiran Associate Professor, IIT Madras <i>Title: Hydrogen for power and mobility sectors</i>
12.25 - 13.00	Dr. Akhila Kumar Sahu Scientist-F, CSIR-CECRI, Chennai Unit <i>Title: Hydrogen Fuel Cells for Stationary and Automotive Power Generation</i>
13.00 - 14.00	Networking Lunch
14.00 - 14.35	Prof. P. Muthukumar Professor, IIT Tirupati <i>Title: Industrial Scale Solid State Hydrogen Storage and Purification Systems</i>
14.35 - 15.10	Dr. N. Rajalakshmi Former Head, CFCT-ARCI, Professor of Practice, IIT Dharwad <i>Title: Building India's Hydrogen Economy: Policy, Safety, Standards</i>
15.10 - 15.30	Tea
15.30 - 15.05	Shri. S. Sridhar Director, Reactor Facilities Group, IGCAR, Kalpakkam <i>Title: Production of Hydrogen with Nuclear Heat: Benefits and Challenges Ahead</i>
16.05 - 16.40	Shri. Pankaj Kumar Founder & Managing Director, Prasah Private Ltd., Pune <i>Title: PEM Fuel Cell with Metallic Bipolar Plates</i>
16.40 - 17.00	Concluding Remarks

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 Link : [REGISTER HERE](#)
- 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 11th **October, 2026**.
- 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	Co-Chairman Dr. R. Subasri Associate Director ARCI subasri@arci.res.in
Convener Dr. Sanjay R. Dhage Head CCSF – ARCI dhage@arci.res.in	Co-Convener Dr. R. Balaji, Dr. Raman Vedarajan & Fuel Cell Team, CCSF-ARCI h2fc2026ccsf@gmail.com

CONTACT DETAILS

Fuel Cell Team, CCSF-ARCI Chennai

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