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Dr. Sekar Viswanathan, Vice-President, VIT

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Dr. Ramesh Kumar C, ARC

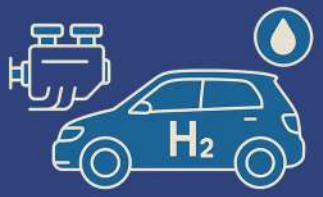
Dr. Suresh Kumar P, ARC

Dr. K K Cheralathan, SAS

Dr. Mallikarjuna Reddy D, SMEC

KEY TOPICS:

- Introduction to Hydrogen as a Clean Fuel
- Hydrogen as a Sustainable Energy Carrier
- AI/ML for Hydrogen Combustion
- Hydrogen Combustion Fundamentals in IC Engines
- Engine Design and Modifications for Hydrogen Use
- Hydrogen Fuel Storage and Supply Systems
- Safety Protocols & Regulatory Framework
- Industry Case Studies & Real-World Applications
- Future Trends in Hydrogen Mobility & Ecosystem Development
- Expert Panel Discussion



SPEAKERS:

Dr. A Ramesh
Professor
Internal Combustion Engines Laboratory
Department of Mechanical Engineering
Indian Institute of Technology-Madras

Dr. RV. Ravi Krishana
Professor
Department of Mechanical Engineering
Indian Institute of Science, Bangalore

Dr. P. Shanmugam
Chief Scientist, Group Leader-
Environmental Engineering and Sciences
CSIR-Central Leather Research Institute
Chennai.

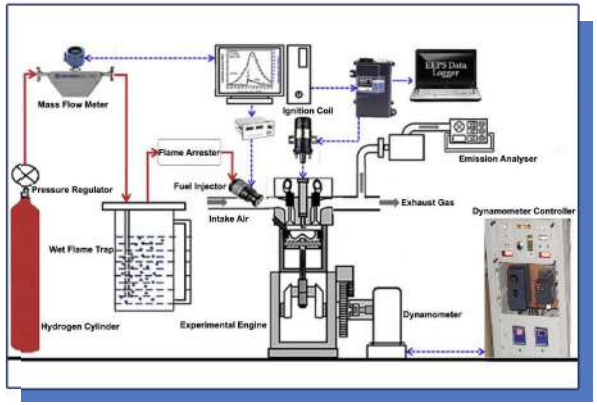
Dr. Ramesh K
Vice President
Turbo Energy Pvt. Ltd.
Chennai

Dr. S. Jayagopal
General Manager
(HoD-EV Technology & Innovations)
Escorts Kubota Ltd, New Delhi

Dr. Sunil Kumar Pandey
Deputy General Manager
Technology & Innovation
Ashok Leyland, Chennai

Mr. Rakesh Mulik
Deputy Director
Powertrain Design Department
Automotive Research Association of
India-Pune

ABOUT THE WORKSHOP



The future mobility will be hydrogen based fuel cells or IC engines. While fuel cells are cleaner and more efficient, combustion engines are easier to adopt using current infrastructure. Hence, hydrogen combustion engines play a strong role in a transition especially where ruggedness and existing technology matter more than absolute efficiency.

The workshop aims to equip participants with a thorough understanding of hydrogen as an alternative fuel in IC engines, covering its combustion characteristics, necessary engine and vehicle modifications, fuel supply systems, safety and regulatory considerations, and the growing hydrogen ecosystem enabling professionals to effectively explore and implement Hydrogen IC Engine technologies.

WORKSHOP HIGHLIGHTS

- Introduction to Hydrogen as a Clean Fuel
- Hydrogen Combustion Fundamentals
- Engine and Vehicle Modifications
- Hydrogen Fuel Supply and Storage Systems
- Safety and Regulatory Considerations
- Hydrogen Ecosystem and Emerging Technologies
- Case Studies and Industry Applications
- Expert Panel Discussions
- Demonstration of hydrogen fuelled SI engine

WHO SHOULD ATTEND

- Automotive Engineers and Technologists
- R&D Professionals
- Academicians and Students
- Government and Regulatory Officials
- Fleet Operators and Transportation Planners
- Startups and Entrepreneurs
- Environmental and Energy Consultants
- Automotive Suppliers and OEMs

WORKSHOP DETAILS

- Venue: Rajaji Hall, Dr. MGR Block, VIT, Vellore
- Date: 20 & 21 Feb 2026 (Friday & Saturday)
- Mode: In-Person

REGISTRATION AND CONTACT

- Registration link : ***https://forms.gle/FVcA4dTGkJqDqodY9***

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- Registration Fees:
  - > *VIT Students / Faculty members: Rs. 300*
  - > *External Participants: Rs. 500*
- Payment Information:
  - > *Mode of payment: Online transactions*
  - > *Payment Link: **https://events.vit.ac.in/***

SCAN THE CODE FOR PAYMENT

CONTACT DETAILS

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Automotive Research Centre
Vellore Institute of Technology (VIT), Vellore
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Mobile: +91 8848653573
Website: https://vit.ac.in/

Working Lunch will be provided on both days.

The workshop is aligned with the following SDG goals

VIT
Vellore Institute of Technology
(Deemed to be University under section 3 of UGC Act, 1956)

Anusandhan National Research Foundation

ANRF Sponsored
Two Day National Workshop on

HYDROGEN ENGINES:

DRIVING THE FUTURE OF CLEAN MOBILITY

FEBRUARY
20 & 21
2026

Organized by

School of Mechanical Engineering
School of Advanced Sciences
Automotive Research Centre
CO2 Research and Green Technologies Centre
Vellore Institute of Technology, Vellore