

Two-Day International Conference on
Advanced Powertrains for Mobility & Power Generation Applications

Friday & Saturday
15th & 16th Sep 2023

Radisson Blu Pune
Hinjewadi, Pune

8:30 am to 6:30 pm

CONVENER



Dr. Sushil S. Ramdasi

Deputy Director,
Incharge - Powertrain Design, ARAI

PATRON



Dr. Reji Mathai

Director, ARAI
Chairman, SAEINDIA Western Section

CO-CONVENER



Mr. Chandrakant Awate

General Manager, Electric Vehicle,
TPEM, Tata Motors Limited

Salient Features

Keynote: 10 Nos. Technical Presentations: 13 Nos.

Panel Discussion: 2 Nos.

Product Gallery - Experiencing the Technology: Hydrogen IC Engine, E-Axle Powertrain, IM / PMSM Motors for CV Applications, VCU / MCU / FCU, HiL System, Hydrogen Electrolyser, Hydrogen Fuel Cell



Advances in ICE Technology

- ✓ Technology Options & Challenges for meeting EURO VII Emission Norms for Gasoline & Diesel Engines / Flex Fuel & Hydrogen ICE Engines



Advances and Current updates: Electric & Hydrogen Fuel Cell Electric Vehicles

- ✓ Making of Efficient & Cost Effective Conventional / E Axle based Electric Vehicles
- ✓ Advances in Motors (IM / PMSM / SRM), Power Electronics, MCU, BMS, Battery & Charging Technology
- ✓ Latest happenings in Hydrogen Fuel Cell Electric Technology for Mobility & Power Generation Applications from the perspective of real implementation on mass scale
- ✓ Front loading based advanced Testing, Validation and Certification of Electric & Hydrogen Fuel Cell Electric Vehicles
- ✓ CAPEX / OPEX considerations while making sustainable & Affordable EV & FCEV's
- ✓ Indigenous developed product-based Supply Chain and Eco System Creation and Challenges in case of EV & FCEV's



Hybrid Electric Vehicles from an Indian Perspective

- ✓ Strong Hybrids / Series Hybrids / Range Extender Based Hybrids



Future Generation Transmissions & Axles

- ✓ Dual Clutch Transmission / AMT / Design Considerations viz Transmission Error and Gear Whine in case of EV Transmission & Axle Technology



Panel Discussion Topics

1. Sustenance & Existence of Conventional Power Trains After EURO VII & Beyond while Meeting Challenges of CO2 Footprint & Depletion of Fossil Fuels
2. Accelerating Implementation of EV & Hydrogen FCEV Technology for SCV, LCV and HCV Applications: Challenges, Opportunities, Govt Policy Support & Intervention

In case of any query please contact:

Mr. Onkar Deshpande
7558666825

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99222 77224

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Click to join us through social media:



Registration Fees (Including 18% GST)

ARAI Company Member or SAEINDIA Member: ₹9,440/-
Non Member: ₹ 11,800/-
Student: ₹5,900/-

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Our Esteemed Speaker & Panelist



Dr. Reji Mathai
Director, ARAI
Chairman, SAEINDIA Western Section



Mr. Anand Kulkarni
Chief Product Officer (EV)
Tata Motors Limited



Dr. Thomas Kauffeldt
Global Application Manager
AVL, Graz Austria



Mr. Sachin Agrawal
Executive Vice President – R&D
and Technology
VE Commercial Vehicles Ltd



Mr. Tarun Aggarwal
Executive Vice president,
Maruti Suzuki India Ltd



Mr. Sudeep Dalvi
Senior Vice President & Director-
Technical,
Toyota-Kirloskar Motors



Mr. Priyachandar P.
Country Head - Inside
Sales National Instruments
India



Mr. Vijay Sharma
Managing Director
FEV India Pvt. Ltd.



Mr. Anand Deshpande
Senior Deputy Director
Head - Automotive Electronics &
Electric Mobility, ARAI



Mr. Neelkanth V. Marathe
Executive Director
ECMA



Mr. Krishnan Sadagopan
Senior Vice President, Engines
Ashok Leyland Limited



Mr. Naresh Phansalkar
Director Engineering,
Global CTOH
TENNECO



Dr. K. Subramanian
Senior Vice President,
Product Development
Ashok Leyland Limited



Mr. P. K. Banerjee
Executive Director
SIAM



Dr. Asish Lele
Director
National Chemical Laboratory



Dr. S. S. Thipse
Sr. Deputy Director
HOD EDL & ERL, ARAI



Dr. Ajeet Kumar Jindal
Former Senior Vice President
Tata Motors Ltd.,
Consultant TACO



Dr. Sushil S. Ramdasi
Deputy Director,
Incharge -Powertrain
Design, ARAI



Mr. Chandrakant Awate
General Manager, Electric Vehicle.
TPEM, Tata Motors Limited



Mr. Garrett Bailey
Dorleco, USA



Mr. Filip Forier
Vice President - Engineering
Taco Punch Powertrain Pvt. Ltd.



Mr. Shelav Jain
General Manager – Embedded
System
Taco Punch Powertrain Pvt. Ltd.




Mr. Ramesh S. Pasarija
Executive Director
SAEINDIA Western Section


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Friday, 15th Sep 2023 – Schedule

08:00 to 09:00	Registration & Visit to Product Gallery Inauguration
09:00 to 09:30	ARAI 's Role, Responsibilities & Endeavor towards Achieving Clean & Sustainable Mobility
09:30 to 10:00	Global Roadmap to Zero Carbon Footprint & Alignment of the Same from an Indian Perspective
10:00 to 10:25	Keynote 1 - Future of Electrification of PV & SUV's by considering present experiences, challenges & Opportunities
10:25 to 10:45	Tea Break
10:45 to 11:15	Technical Session 1 - Readiness for Implementation of EURO VII in Europe followed by India and its Cost Impact / benefit analysis
11:15 to 11:45	Technical Session 2 - Advances in Fuel Injection Technology and associated Calibration Efforts for meeting EURO VII & Beyond Emission norms
11:45 to 12:10	Keynote 2 - Future of Conventional Power Trains in HCV segment fueled with fossil liquid & gaseous fuels while meeting EURO VII & FE Norms
12:10 to 12:20	Break
12:20 to 12:50	Technical Session 3 - Practical Considerations & Overcoming Difficulties while handling Hydrogen as a fuel for Heavy Duty based I C Engines
12:50 to 13:20	Technical Session 4 - Applicability of Flex Fuel Technology from the perspective of upcoming EURO VII norms and affordability on CAPEX front
13:20 to 13:45	Keynote 3 - Real Life Experience while spearheading Hydrogen ICE , Flex Fuel & HEV Technology on global horizons
13:45 to 14:30	Lunch
14:30 to 15:00	Technical Session 5 - Bringing Real life test scenarios during front loading phase of EV / FCEV development using HiL Simulation based Technology
15:00 to 15:30	Technical Session 6 - Can Strong / Series Hybrids will be the solution for meeting Euro VII & Beyond Emission and FE Norms?
15:30 to 15:55	Keynote 4 - An integrated design , simulation & testing approach for development of future generation power trains
15:55 to 16:15	Tea Break
16:15 to 16:45	Technical Session 7 - Updating on PLI, Rules, Regulations and Certification of Electric Vehicles, Systems & Components
16:45 to 17:55	Panel Discussion No 1 (Conventional Power Trains) - Conventional Power Trains for EURO VII & Beyond
17:55 to 18:30	Visit to Product Gallery
18:30	End of the Day 1

In case of any query please contact:

Mr. Onkar Deshpande
☎ 7558666825

Mr. Sagar Murugkar
☎ 99222 77224

✉ officer-ws@saeindia.org

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Saturday, 16th Sep 2023 – Schedule

- 08:15 to 09:00 Registration & Visit to Product Gallery
- 09:00 to 09:25 Keynote 5 - Penetrating Electrification in Commercial Vehicles - Facts , Readiness & Acceptance for mass transportation
- 09:25 to 09:50 Keynote 6 - OEM's Perspective on Co-Existence of Conventional & Advanced Power Trains for Sustainable & Green Mobility
- 09:50 to 10:20 Technical Session 8 - An Overview of Dual Clutch Transmissions and AMT for Conventional & Electric Power Trains from an Indian Context
- 10:20 to 10:40 Tea Break
- 10:40 to 11:50 **Panel Discussion No 2 (E mobility) - Accelerating EV & Hydrogen FCEV Technology for Long Haul Mobility Applications**
- 11:50 to 12:15 Keynote 7 - Long Term & An Efficient Powering of xEV's through Indigenization Process: Battery & Motor Technologies
- 12:15 to 12:45 Technical Session 9 - An overview of advances in motor and controller Technology viz Axial Flux, IM & PMSM
- 12:45 to 13:30 Visit to Product Gallery
- 13:30 to 14:15 Lunch
- 14:15 to 14:40 Keynote 8 - Indigenization of Hydrogen Fuel Cell and Electrolyzer for Making a Viable Business Case
- 14:40 to 15:10 Technical Session 10 - Updates on Rules, Regulations , Certification & Testing of Gaseous Fuels - India Specific Scenario
- 15:10 to 15:35 Keynote 9 - Road Map for Present & Future Power Generation Technology (ICE & Fuel Cell Based Solutions)
- 15:35 to 15:55 Tea Break
- 15:55 to 16:20 Keynote 10 - Creation of an efficient / non interruptive supply chain & eco system for all kind of EV's for Indian Market
- 16:20 to 16:50 Technical Session 11 - An E Axle Based Power Train Solutions : A Case Study - Modern way of Making EV & FECV's
- 16:50 to 17:20 Technical Session 12 - An Effective Integration of Power Electronics, DC-DC, OBC, PDU , Battery, VCU, MCU & Motors to Make Robust EV Architecture
- 17:20 to 17:50 Technical Session 13 - Making of VCU for EV's - Case Study with Live Demonstration
- 17:50 to 18:15 Valedictory
- 18:15 onwards Closure

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 - Coverage in print/electronic media.

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