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**

**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

**Product Gallery - Experiencing the Technology:**


**In case of any query please contact:**

Mr. Onkar Deshpande
7558666825
officer-ws@saeindia.org

Mr. Sagar Murugkar
99222 77224
sagarvm@saeindia.org

**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
- **Mr. S. S. Thipse**
  - Sr. Deputy Director
  - HOD EDL & ERL, ARAI
- **Dr. Ajeet Kumar Jindal**
  - Former Senior Vice President
  - Tata Motors Ltd
  - Consultant TACO
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- **Dr. Sushil S. Ramdasi**
  - Deputy Director, Incharge - Powertrain Design
  - ARAI
- **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
- **Mr. Naresh Phansalkar**
  - Director Engineering, Global CTOH
  - TENNECO
- **Mr. Filip Forier**
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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 & SUVs 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 17:15  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

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Student: ₹5,900/-

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Sunday, 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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