



SAEINDIA OSAEINDIA REEVO 2024

Towards a Carbon Neutral World!







About SAEINDIA REEV

Globally we are witnessing a technology shift in Automotive Propulsion towards electrification and Students in the Engineering community have to be the front runners in this change. SAEINDIA Bangalore has initiated REEV (Range Extended Electric Vehicle) in the 4 wheeler Urban Mobility space.

REEV is a competition that has primary focus on range and fuel efficiency. The competition is going to drive the new age technologies in automotive industry, hybridization, light weighting, optimization, range extension, fuel awareness etc.

Benefit to the Students:

Getting industry ready

- Focus of this competition will be in the areas of Energy Balancing, Safety & New Technologies.
- Hands on Simulation Training on IPG CarMaker, ANSYS, MATLAB, ABAQUS and other analysis tools for students.
- Core Product Engineering Knowledge sharing Sessions by Industry Experts.
- Best Student Champion Awards.

Benefit to the Faculty Advisor:

Exclusive sessions on various technology topics by Industry experts.

- 4-Half Day sessions on Technical & Product development.
- Visit to State of the art Testing facility in India.
- Best Margdarshak(faculty) Awards.

Recognition Awards:

Special Recognition Award for the team that generates highest sponsorship amount for their team.

Each team will be mentored by Industry experts.

RECOGNITION AWARDS:

SAEINDIA REEV Winner	1,50,000/-
1st Runner up	1,00,000/-
2nd Runner up	75,000/-

Towards
a Carbon
Neutral
World!



TECHNICAL SESSION TOPICS:



Understanding of Vehicle Dynamics Applications - I





EV Powertrain Optimization



Automotive Safety and Crashworthiness - I & II



Steering, Suspension and Brakes Fundamentals – II



DFMEA, Costing Fundamentals



Electrical integration and Controllers - I & II



Fundamentals of Automotive Noise, Vibration and Harshness - I & II



Understanding of Vehicle Dynamics Applications - II



Electric Drives



Steering, Suspension and Brakes Fundamentals - I



Application & Base Software Development



Roll cage Design and Validation, Interiors and **Ergonomics**



Vehicle Development & Program Management



Fundamentals of Propulsion, Batteries, Energy & Hybrid concepts in Automotive Application

Event Details:

Registration Starts: March 2023

Technical Sessions: April 2023

Virtuals (Propulsion Readiness): October 2023

Finals (Vehicle Readiness & Launch): May 2024



ADVISORY BOARD MEMBERS:



Jayaraman ShivaKumar GM Engineering. Director



J. Munirathnam Javaji M Consulting Pvt Ltd



Damodaran SUBRAMANIAN AVTEC Vice President- Aerospace & Defence

STEERING COMMITTEE MEMBERS:



Girish Ramaswamy Vitesco Technologies Head of Engineering SAEIBS Chairman



Rakesh Bidre
TCS
Head of Virtual Product Developmen
& SAFIRS Vice Chairman



Sunil Gupta TCS Sustainability

ORGANIZING COMMITTEE MEMBERS:



Vijay Ramakrishnan TCS Delivery Manager & SAEIBS MC



Chandrashekar Prasad S TCS Delivery Head & Convenor SAEINDIA REEV



Pamela Tikku ICAT Sr. GM



Rakhi Jain Alstom Transport Project Manager



Sujaya Kumar B Volvo Group India Pvt Ltd Chief Engineer



Manish Garg TVS Motor principal engineer



Srinivas Surampudi TCSDelivery Manager



Venkata Panguluri TCS
Technical Team Lead



Sukumar Gadumoori TE Connectivity Senior Manager



Arun S Bhaire TCS Technical Lead



Gururaj Kulkarni VOLVO Group India Pvt Ltd Assistant General Manager



Guruprasath Alagarsamy Eaton Engineering Leader - EV Applications



Vijay Kumar Kudtalker SEG Automotive Technical Leader



Shubham Kant TVS motor



Ashish kumar Das TVS Motor NVH



Balaji Srinivasan TVS motor Assistant manager R&D



Padmesh Sewda IQL , TVS motor Program Manager - CD (NPD,EV

Supported By







































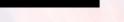












TESTIMONIALS

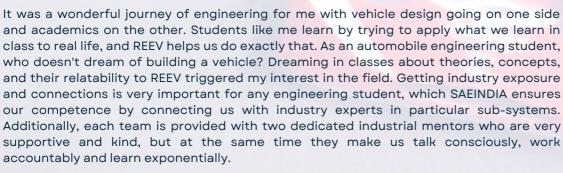


Mr. Dhaanish mohamadu



REEV is a revolutionary platform that was organized by the efforts of SAE INDIA in collaboration with GM. It's gives me an immense pleasure to share this victory to our college management and the SAE INDIA REEV who provided us an enormous support.

Mr. Honey Kethan









Prof. Udaya Ravi Mannar PhD, FIE



REEV (Range Extended Electric Vehicle) competition conceived, planned and executed by SAEINDIA Bengaluru Section is a wonderful event. It is a hybrid vehicle building competition and one of its kind among different vehicle building competitions in India. In today's world of heavy pollution and depleting fossil fuels, the world is talking about green energy and electric vehicles. Hence, building a hybrid vehicle is the need of the hour. It is a real testimony to the talent of young minds.



SAEINDIA in **REEV 3rd Edition Convernor Note**

Chandrashekar Prasad S Delivery Head, TCS & SAEINDIA REEV - Convenor

SAEINDIA REEV EDITION 3 "TOWARDS A CARBON NEUTRAL WORLD"

The Range Extended Electric Vehicle is a journey of experiential learning for students from all disciplines of Engineering which culminates with a competition to keep up the aspects of Energy, Education & Enthusiasm among all the participants be it the Students or Faculty or Industry experts.

After successful completion of 2nd Edition in January 2023, the Team REEV, comprising of enthusiastic faculty from Engineering educational institutions and passionate leaders from the industry have kicked off the 3rd Edition in March 2023.

Inline with the tag line "Towards Carbon Neutral World", in the 3rd edition the REEV team intents to work with students on Sustainability Development Goals (SDG) so that they start understanding Industry expectation on Sustainability. The outlook will be to explore alternatives which are less Carbon intensive. The Safety aspects will also be emphasized. In this way this program is unique as the students will get to understand on how to build a vehicle under tough boundary conditions as experienced in the industry.

There are two major milestones for this program:

- 1. REEV Virtual April to November 2023.
 - a. Development & demonstration: App's, Controller, Test bench (EV & Hybrid), Cost, Virtual engineering, Go Green / Innovative POC's to name a few.
 - b. Theory & Practical sessions by Industry experts during the above period.
 - c. Virtual Competition by Mid Nov 2023.
- 2. REEV Physical Vehicle build and Final Competition in End March 2024
 - a. Safety Engineering.
 - b. Planning, Manufacturing, Assembly, Testing, Validation & Cost.
 - c. Handholding & guidance from Industry experts.

During the entire journey there will exclusive mentor from industry to each participating team to handhold & guide.

With this REEV journey & experiential learning, the industry expects students make a head start in their professional career once they are out of college & in real world.

Reach us



Mr. Warad



+91 99803 21958



manager@saeibs.org



Mr. Pavan



+91 79935 37960



pavan@saeibs.org





