



# A WORLD IN MOTION®

**SAEINDIA** The Engineering Society  
 For Advancing Mobility  
 Land Sea Air and Space  
**NORTHERN SECTION**

**इंडियन ऑयल R&D**  
 IndianOil The Power of Possibilities

**MARUTI SUZUKI**  
 Way of Life!



## Master Teacher Training Programme 2016

Venue : IOCL R&D  
 Date : 7<sup>th</sup> Oct, 2016





## Introduction:

SAE (Society of Automotive Engineers), India is a premier society that serves the mobility engineering fraternity towards the design, manufacture and service of self propelled vehicles & systems that move in air, space and on land. The event is organized by SAE NIS with industry partnerships such as Maruti Suzuki India Limited (MSIL), IOCL etc. Subsequent to the initial level screening for the competition at regional and national levels, the qualifying team will be sent for the international level that is to be held in Detroit, USA during April 2017. A Master Teacher Training Programme (MTTP) was organized in this respect at IOC R&D centre on 7<sup>th</sup> Oct. The training was inaugurated by Mr.A.K.Sehgal (GM, IOCL), in presence of Dr.Reji Mathai (DGM, IOCL) & Mr.Anup Kacker(ED, SAE-NIS). Mr.A.K.Sehgal underlined the importance of innovative & critical thinking that must be imbibed by the students so as to skill them for future requirements of the industry. Further, the participants were appraised about the nuances and technicalities of the prototype design and subsequent fabrication. The training was attended by personnel from Maruti Suzuki and various academic institutions.



**Mr. Anup Kacker**  
(ED, SAE-NIS)



**Mr.A.K.Sehgal**  
(GM, IOCL)



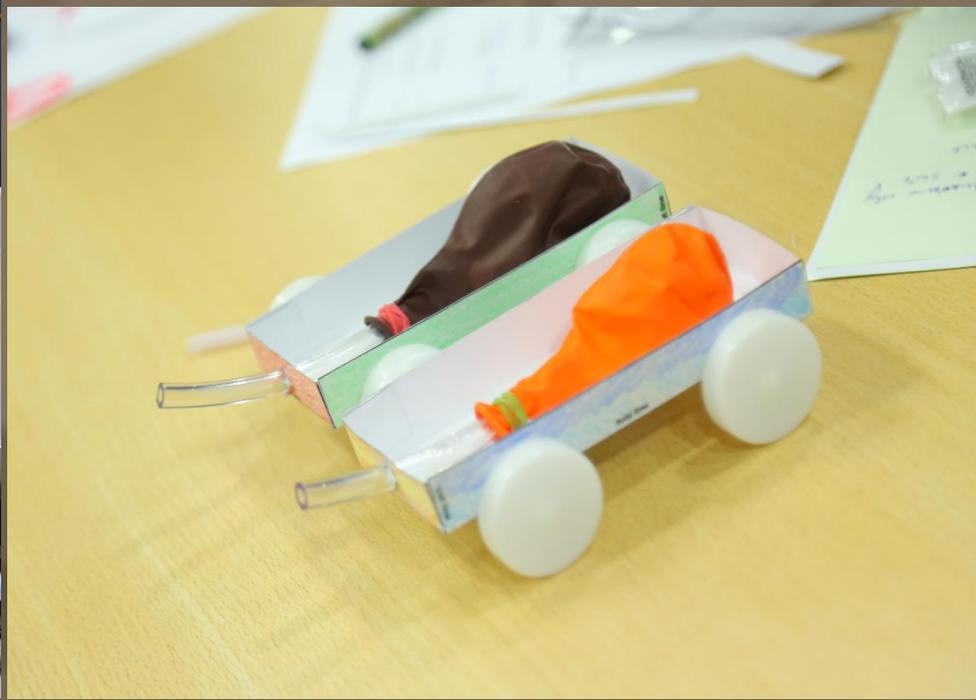
**Dr.Reji Mathai**  
(DGM, IOCL)



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AWIM (A World In Motion) is a teacher administered programme , assisted by university and industry volunteers that bring practical aspects of science, technology , engineering and mathematics (STEM) education to life in the classroom. Through AWIM event, teachers prepare students for challenges of tomorrow through practical discoveries. AWIM is all about creativity and talent of students harnessed by teachers and volunteers. It is an experience of learning filled with enthusiasm.





## Participants:

### **Teachers from various schools of Faridabad :**

1. The Shree ram Millennium School, Sector 81 Faridabad
2. St. Anthony's Secondary School, Sector 9 ,Faridabad
3. St. John's School, Sector - 7 Faridabad
4. Tagore Academy Public School, Sector 3 ,Faridabad
5. Aravali International school, Sector- 81, Faridabad
6. Manav rachna International school, Sec 21 C, Faridabad
7. Aravali International school, Sector- 43, Faridabad

### **College Volunteers from various Colleges of Faridabad :**

1. Manav Rachna International University, Faridabad
2. YMCA, Faridabad



## Glimpses:





**Facilitators for the Event:**



Mr. Vishnu  
(Indian Oil Corporation Ltd.)



Mr. Saurabh kumar  
(Maruti Suzuki India Ltd.)



Mr. Ujjawal  
(4<sup>th</sup> Yr Student, JMI)  
College Volunteer  
of winner team in  
Regional 2014



### Trainers for Skimmer:



Ms. Swechha  
(4<sup>th</sup> Yr Student, IGDTU-W)



Mr. Sarthak  
(3rd Yr Student, JMI)



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Trainers for Jet Toy:



Ms. Drishti  
(3<sup>th</sup> Yr Student, IGDTU-W)



Ms. Jasmine  
(4<sup>th</sup> Yr Student, IGDTU-W)



## Training & Fabrication of Toys:

After the introductory session, the teachers as well as the volunteers were taken for training - the fabrication of the jet-toy and skimmer respectively.

The training started with the introduction of the trainers- Ms. Drishti Sharma and Ms. Jasmine for jet-toy and Mr. Sarthak Bhagat and Ms. Swechha for skimmer.

After the introduction, teams were formed, which included volunteers as well as teachers, so as to provide a real life experience of the competition in order to make them aware of the problems that the students might face as well as their requirements.

Each team had its own test engineer, project engineer and facility engineer and each team fabricated two vehicles one for the track phase and the other for the presentation phase of the event.



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## Training & Fabrication of Toys:





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## Testing of Toys:

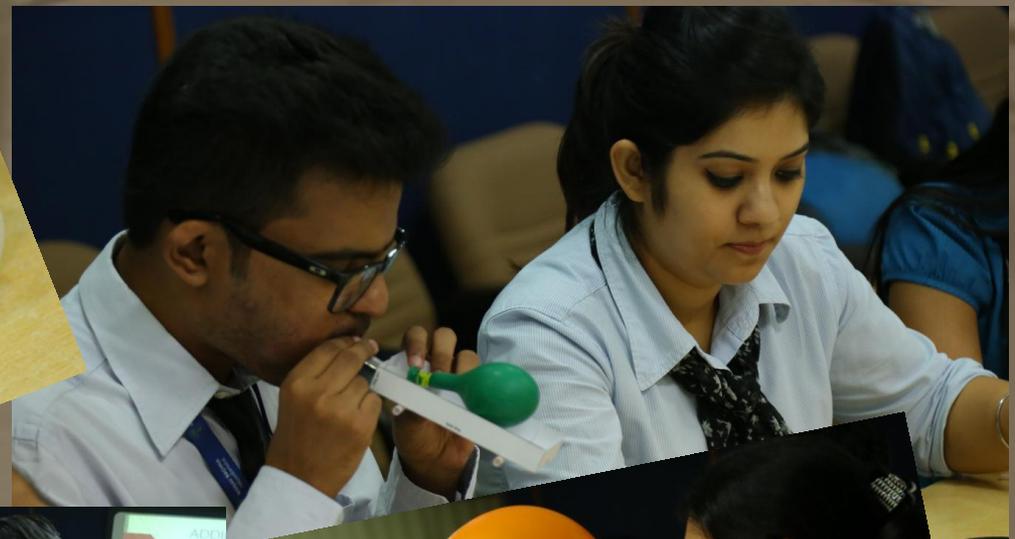
After Fabrication, the teams proceeded for the track stage of the event where skimmer and jet-toy vehicles were tested respectively.

The testing was equally competing during the training session as would have been in the actual competition and on the other hand, in the presentation round the teachers and volunteers came with totally different and innovative ideas for the promotion of their vehicle like satellite, kneel on wheels, solar energy, etc. and it seemed each one of them had stepped into the shoes of a school student.

The volunteers and teachers enjoyed the training session thoroughly and even appreciated the knowledge they gained.



## Testing of Toys:





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## Testing of Toys:





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## Presentations:





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## Presentations:





## Conclusion:

The volunteers as well as teachers enjoyed a lot.

Everyone had a new learning experience.

The teachers were pretty enthusiastic about the regionals and learned something new at their level.

They all presented their innovative ideas making MTTP a success.