

MASTER TEACHER'S TRAINING PROGRAM
Workshop for School Teacher's and
Volunteers



VENUE:

SHRI SATHYA SAI VIDHYA VIHAR, INDORE

26 september, 2010

Designed by the Society of Automotive Engineers International (SAE), AWIM is a six-session curriculum to fuel enthusiasm for science and technology making mathematics and science exiting by introducing authentic engineering design experiences to 6 to 9 grade classrooms. Although in India only Jet Toy - for 6th grade students, is being conducted .The curriculum pair's teachers and students with volunteer engineers and industry volunteers for an exploration of the laws of physics, motion, flight and electronics.

The students are provided with a kit containing raw materials to build toys and they are taught to design, build and experiment with them. In this process, students explore science, Engineering and Design aspects.

First step for this activity is Master Teachers' Training Program (MTTP) conducted for school teachers' as well as student and industry volunteers wherein they learn, implement and go through five phases of engineering design experience:

- Set Goals
- Build Knowledge
- Design
- Build and Test
- Decorate
- Present

The next step is, training of the 6th grade school students by the teachers and volunteers in the same fashion, bringing them closer to science and mathematics in a joyful manner and to make them think out of the box.



The first part of which was recently conducted in Indore known as the M.T.T.P (master teacher training program) at the Sri Sathya Sai Vidhya Vihar, Indore. The city is organizing the event for the second time. This time the no. of school's doubled from 5 to 10.

Entire effort in Indore has been envisioned by Mr. Ashwin Shastri, COO, Mahindra Two Wheelers Limited. Mr. Nirmal Matharu, plant head & vice-president, Mahindra Two Wheelers Ltd was invited as the Chief Guest for the training program with an experience of more than 29 years in industry. The Master Training was conducted by Mr. Sagar Dubey, from Accenture Services Pvt. Ltd, Member-SAEINDIA WS. The inaugural ceremony was led by the Principal of the host school and our Honorable chief guest. Dr. N. Karuppiah, Additional Director, NATRiP represented SAE India.



Team of Judges

The M.T.T.P was held to train the teachers, college volunteers, and the industry volunteers from Mahindra Two Wheelers Ltd. which is sponsoring the entire program for Indore region. The training session began with introduction to engineering, role of engineers in the society and JET TOY CHALLENGE.

The Volunteers and Teachers actively took part in the question - answer session, worked effectively in a team and designed an appealing toy that performs in a specific way, such as travels far or carries weight.



Testing without Balloon

Teachers experimented with different chassis designs and nozzle sizes to determine their effect on the Jet Toy's performance. The scientific concepts like force, friction, and air resistance were explored by the teachers & volunteers.



Volunteers testing the Jet Toy

There are mainly two testing parts of the program, the first is Testing without balloon and second is Testing with balloon. At the beginning, the toy is tested for the stability in the drive of the vehicle without attaching a balloon on top of it rather launching it from an inclined ramp. This clears some concepts of steering. Then testing with balloon is done wherein a balloon is placed on the top of the car attached to a nozzle so as to make toy air propulsion.

After building & testing the toy, the teachers & the volunteers also gave Presentations about their Team & the Vehicle describing their marketing and selling strategies of their demo vehicle. They gave a Name to their team, a Logo and a Tagline. They also faced questions put up by a team of judges. The doubts of teachers & volunteers were answered by the Trainer.



PRESENTATIONS



FELICITATION

Mr. Nirmal Matharu, Dr. karuppiah, Mr. Rajesh Upadhyaya and Mr. Sagar Dubey concluded the program by giving the certificates to the volunteers in the felicitation ceremony.



Sr. no.	Name Of School	No. of Teachers
1	Shri Sathya Sai Vidhya Vihar	2
2	The daly collage	2
3	Choithram international	2
4	Kendriya vidhyalaya no.1 (Morning Shift)	1
5	Kendriya vidhyalaya no.1 (Evening Shift)	1
6	Indore public school	2
7	The green fields public school	2
8	National public school	2
9	New digamber public school	1
10	Emerald Heights International	1
	Total Number of Teachers	16
	Total Number of College Volunteers	12
	Total Number of Industry Volunteers	10
	TOTAL	38

By: Devansh Sharma

Convener

AWIM Indore Local Olympics 2010