







The National Car Design & Build Competition for School Children

By: Piyush Manocha (Coordinator - SAE NIS AWIM'2011)

"SAE INDIA AWIM Jet Toy National Olympics"

was conducted at *Jamia Sports Complex, New Delhi on 13th November 2011*

"St. Columba's School, Delhi"
emerged as the National Champion & would
represent India at AWIM International
Olympics 2011 at Detroit, Michigan, USA.





The Design Experience, is a dynamic curriculum focusing on the engineering design process for physical science classes. **Designed for students in grades 6,** the program is appropriate for students, who are experiencing physical science concepts for the first time.















SAEINDIA with SAEINDIA Foundation &

SAE International in association with

Maruti Suzuki India Limited, Mahindra & Mahindra Ltd., Lumax DK Jain Group, Dassault Systemes, Lear Corporation Limited, NK Minda Group, The Automotive Research Association of India (ARAI), Eaton India Engineering Centre, John Deere India Pvt. Ltd., BPCL, Trim INDIA Limited organized the event to help motivate & channelized the young talents.



Top 26 competent teams from 13 cities all across India participated in the National Olympics 2011. **More than 100 students** showed their zeal and enthusiasm along with their creative & scientific excellence during the event.



The challenge was to design an appealing toy that performs in a specific way, such as Distance travelled, Weight carrying capacity, longest travel time, Accuracy & Speed. Students experimented with different designs and nozzle sizes to determine their effect on the Jet Toy's performance. Jet propulsion, friction, and air resistance are the core scientific concepts, which students explore in this challenge.















The inauguration ceremony was graced by Mr. I.V.Rao (Chairman SAENIS & MEO, Engg. MSIL), Mr. Sandeep Raina (Co-convener AWIM- 2011 &GM, MSIL), Dr. Tapan Sahoo (Secretary SAENIS & GM, MSIL), Prof. Abid Haleem (HOD, Mechanical Engineering. Jamia Millia Islamia University), Mr. Rakesh Sood (Convener AWIM-2011 & MD, TRIM INDIA), Mr. Matthew Miller (Director, Foundation & Pre-Professional Programs at SAE International), Dr. K C Vora (Dy. Director, ARAI Academy), Mr. R.Naraynan (DG. SAEINDIA), Mr. R.R. SANKARASUBRAMANIAN (ED, SAEINDIA), Mr. Saurabh Chitnavis (Sr. Manager, M&M).









Chief Guest: Dr.Farooq Abdullah, Hon'ble Union Cabinet Minister, Govt. of India, Minister for New And Renewable Energy & Former Chief Minister, J&K



The esteemed jury for the competition comprised of

Dr. K C Vora (Dy. Director, ARAI Academy), Mr. Matthew Miller (Director, SAE Foundation & Pre-Professional Programs at SAE International), Mr. R.Naraynan (DG, SAEINDIA), Mr. Prem Paredasani (VP, Lumax DK Jain Group)







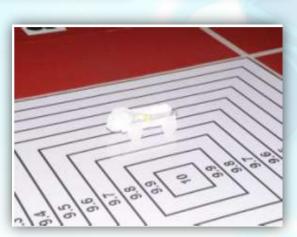
The fabricated Jet toys were tested in five different track rounds namely, max. speed, max. distance, max. time, accuracy & max. distance with weight.



At the National Olympics 2011, students gave a demo of their concept car with the Team Name, Toy name, logo & slogan of their team and wrote the specification of their vehicles in a presentation Chart. Jury's had a tough time rating the teams as the participants were at par & there was just a fine line separating the next best. The aesthetics round was one of the most difficult round to be judged, since each futuristic car designed by the students was amazing & innovative.





















Mr. Mathew M. Miller (Director, SAE Foundation & Pre-Professional Programs SAE International), who was Special guest on the occasion shared his views and experiences about AWIM program done at USA.

Learning & fun went hand in hand with some beautiful performances & dynamic track events and presentation rounds.

Magnificent performances were given by students from Saai Memorial girls School, Bal Bhawan International school & S R DAV school.























"AWIM National Olympics 2011" ended after the motivating speech by **Dr. Farooq Abdullah** (Hon'ble Union Cabinet Minister, Govt. of India, Former Chief Minister, J&K & Minister for New And Renewable Energy) followed by prize distribution and enthralling performance "Jai Ho" by girls from Saai Memorial girls School























AWIM National Jet Toy Olympics 2011 Champions St. Columba's School, Delhi

Master Ankit Sharma, Master Shitij Malik, Master Bhavishya Bhatt, Master Paanshul Jerrel











AWIM National Jet Toy Olympics 2011 First Runner Up Prestige Public School, Indore

Ms. Tanishka Goswami, Master Sanskar Jain, Master Akshat Barve, Ms. Revati Janzeere











AWIM National Jet Toy Olympics 2011 Second Runner Up Saupin's School, Chandigarh

Master Prabhnoor Singh, Master Yatin Bunger, Ms. Mehak Katyal, Master Lakshay Karwasara











"AWIM Best Industry Volunteer"

This year "AWIM Best Industry Volunteer" was awarded to

"Mr. Saurabh Chitnavis" of Mahindra & Mahindra Ltd. to encourage his whole hearted support, this award was sponsored by SAEINDIA Foundation.











"AWIM Best Student Volunteer"

This year two more Award categories, "AWIM Best Student Volunteer" & "AWIM Best Teacher" was created to encourage the Student Volunteers & Teachers for efforts and dedication in making AWIM initiative a big success.

"Mr. Mahesh Yadav" of Dronacharya Engineering College, Gurgaon was awarded Best Student Volunteer, this award was sponsored by SAEINDIA Foundation.











"AWIM Best Teacher"

This year two more Award categories, "AWIM Best Student Volunteer" & "AWIM Best Teacher" was created to encourage the Student Volunteers & Teachers for efforts and dedication in making AWIM initiative a big success.

"Mrs. Anuttama Pandit" of Wisdom high International School, Nashik was awarded Best Teacher, this award was sponsored by SAEINDIA Foundation.









To encourage Volunteers and Teachers for their dedication in taking AWIM initiative forward, this year two more Awards Special Contribution (Industry Volunteer) & Special Contribution (Teacher) was given.

Mr. Padmesh Sewda of Mahindra & Mahindra Ltd. won the Special Contribution (Industry Volunteer) & Mrs. Lakshmi V of Sishya School, Hosur bagged the Special Contribution (Teacher) award.

This year the prize money for various set of awards was :











Table B: Names of the School who topped the individual events categories of the National Olympics 2011.

Category	City	School	
Overall Winner	Delhi	St. Columba's School	
National First runner up	Indore	Prestige Public School	
National Second runner up	Chandigarh	Saupin's School	
Winner Max Distance	Delhi	St. Columba's School	
Winner Max Time	Hosur	Sishya School	
Winner Max Speed	Nashik	Wisdom high International School	
Winner Max Weight	Kolkata	M.C.Kejriwal Vidyapeeth	
Winner Accuracy	Hisar	Moga Devi Minda Memorial School	
Winner Teamwork	Delhi	St. Columba's School	
Winner Cleanliness	Hissar	Moga Devi Minda Memorial School	
Winner Best Sportsmanship	Hosur	Sishya School	
Winner Best Presentation	Indore	Prestige Public School	
Winner Best Aesthetics	Delhi	St. Columba's School	
Winner Best Vernacular Team	Hissar	Moga Devi Minda Memorial School	









The Details of the performance of the participating teams are given in the table below.

Table A: Team Ranking based on the marks scored in the Track event as well in the presentation round.

Ranking	School name	Total Scores	Team No.	City
National Overall: Winner	St Columba's	75.91	25	Delhi
National Overall: 1st Runner-up	Prestige Public School	70.42	6	Indore
National Overall: 2nd Runner-up	Saupins School	70.41	13	Chandigarh
4th Position	Tagore International School	70.05	26	Delhi
5th Position	Agrasain Balika Siksha Sadan	66.86	10	Howrah
6th Position	MC Kejriwal Vidyapeeth	65.23	9	Howrah
7th Position	Sisyha School	64.90	8	Hosur
8th Position	Mahindra Academy	64.90	4	Nashik
9th Position	Ashoka Universal School	64.47	18	Vadala
10th Position	Chandannagore Banga Vidyalay	62.71	11	Hooghly
11th Position	Moga Devi Minda Memorial School	60.86	14	Hissar
12th Position	ZP High School	59.42	15	Chakkan









Ranking	School name	Total Scores	Team No.	City
13 th Position	Sanghamitra high school	59.05	3	Zahirabad
14 th Position	Nav Maharashtra Vidyalaya	58.98	16	Chakkan
15 th Position	DAV Public School	58.86	20	Pune
16 th Position	St Francis School	58.57	5	Indore
17 th Position	CCA School	57.85	23	Gurgaon
18 th Position	Swami Vivekanand International School	57.25	21	Mumbai
19 th Position	Wisdom high International School	56.07	17	Nashik
20 th Position	Ryan International School	53.96	12	Chandigarh
21 th Position	Tagore International School	49.74	24	Gurgaon
22 th Position	Suganthi Bala Bhavan Hr.Sec School	49.29	1	Southern Section
23 th Position	Panditro Agashe School	46.51	19	Pune
24 th Position	Parimalam Mat. Hr.Sec School	45.62	2	Southern Section
25 th Position	John bosco School	45.62	7	Hosur
26 th Position	Fazlani L'Academie globale	36.71	22	Mumbai









ANNEXURE A

Steering Committee:

Mentor:

Dr. Pawan Goenka

Chairman:

Dr. K. Kumar

Co-Chairman: Mr. R. Dayal

Members:

Mr. S. Maitra

Mr. C. V. Raman

Dr. R. K. Malhotra

Ms. Pamela Tikku

Mr. Subodh Morye

Dr. K. C. Vora

Mr. R. R. Sankarasubramanian

Mr. N. P. Maruthi

Ms. Sunila Dhar

Organising Committee:

Chairman:

Mr. I. V. Rao

Co-Chairman:

Dr. Tapan Sahoo

Treasurer:

Mr. N. S. Rao

Convener:

Mr. Rakesh Sood

Co-Convener:

Mr. Sandeep Raina

Member:

Mr. Piyush Manocha

Mr. Ravi Goel

Prof. Zakhirlllahi

M.H.S.S. College Of Engg. Mumbai

Dr. Chitra Sharma

IGIT - New Delhi

Mr. Nitin Ranade

Mr. Saurabh Chitnavis

Mr. Padmesh Sewda

Dr. Arun Jaura

Mr. A. D. Sindwani

Mr. Kishan Kejriwal

Mr. Anup Kacker

Mr. R. B. Madhekar

Mr. M. S. Choudhary

Technical Committee

Chairman:

Mr. Deepak Sawkar

Members:

Prof. Abid Haleem

Jamia Millia Islamia University

Mr. Ravi Goel

Mr. Amujuri Kranthi Kumar

Finance Committee

Chairman:

Mr. N. S. Rao

Member:

Mr. Deepak Gupta

Mr. Ravi Goel











Venue Management

Chairman:

Mr. Jitendra Malhotra

Members:

Mr. Noor Mohammad

Jamia Millia Islamia University

Mr. Piyush Manocha

Mr. Shubham Agarwal

Communications

Chairman:

Mr. Puneet Dhawan

Member:

Mr. Piyush Manocha

Mr. Harsh Maithani

Mr. Pavan Mukkamala

Lodging & Logistics

Chairman:

Mr. Piyush Agrawal

Members:

Mr. Chetan Jain

Mr. Kabir Maini

Mr. Tarun Mahajan

Mr. Manish Talwar

Mr. Anuj Sharma

Program & Stage Management

Chairman:

Mr. Anoop Bhatt

Members:

Mr. Ravi Goel

Mr. Harsh Maithani

Ms. Malika Minotra

Mr. Pavan Mukkamala

Mr. Shubham Agarwal

Food & Beverages

Chairman:

Mr. Deepak Panda

Members:

Mr. Sunil K V

Mr. Matin Sheikh

Mr. Rahul K

Mr. Pravin Jadhav

Administrative

Dr. Tapan Sahoo

Mr. Rakesh Sood

Mr. Sandeep Raina













"SAEINDIA AWIM TEAM"

