

Contents

SAEINDIA Events	P.1
Bangalore Section	P.5
Northern Section	P.6
Southern Section	P.7
Western Section	P.11



AWIM NATIONAL OLYMPICS

SAEINDIA in association with Eaton Technologies, Cummins, Mahindra & Mahindra, John Deere, Trim India, The Automotive Research Association of India (ARAI), Altair, Maruti Suzuki, Federal Mogul, IAC, Ansys, VGA Digital Printers and Hospitality Partner, Orchid Hotel, concluded the 10th edition of 'A World In Motion' (AWIM) National Olympics at Cummins India Office Campus (IOC), Balewadi, Pune from 20th to 22nd January 2018. Starting with Inauguration ceremony on day 1 followed up the main competition and prize distribution ceremony on day 2 and finally a field trip to Science Park in Pune were arranged.

The event kicked off with a press conference held for a brief on the event, followed by Inauguration ceremony at Cummins, Balewadi. Mr. Ketan Deshpande, CEO of Fuels Group NGO was the chief guest for Inauguration of the event. It saw music performance from Eaton's Beaton music club, magic show by a volunteer and speeches by the distinguished dignitaries.

This competition saw 80 teams from 30 Cities. Students from schools work as a team, applying scientific design concepts and exploring the principles of laws of motion, inertia, force, momentum, friction, air resistance, jet propulsion, etc. to create moving vehicles like skimmer and balloon powered Jet-Toy cars.

The competition was divided into three main categories namely,

- 1. Toy Making:** Where the students were allotted two hours' time to make the toys and prepare their presentation. The teams comprised of four participants. Each participant had a specific role to play such as design engineer, test engineer etc. mimicking project teams in the Industry.
- 2. Track Events:** The next step was for the team's toys to be evaluated on track for different parameters such as maximum distance, speed, accuracy, ability to carry weight etc. 52 volunteers from Pimpri Chinchwad College of Engineering, Pradhikaran, Nigdi, Pimpri-Chinchwad contributed to managing the tracks for the event.
- 3. Presentation:** This gave an opportunity to the students to extend their learnings of the toys to creatively come up with their own idea of toy. The ideas of toys were theme based from addressing cleanliness drives to entertainment, each new idea was unique.

The competition was judged by a panel of eminent personalities from the automotive field.

Upcoming Major Events

SUPRA 2018

FISITA 2018

REEV 2018

SAEINDIA Managing Committee Members 2016 - 2018

Dr.R.K.Malhotra President
Dr.Aravind Bharadwaj Immediate Past President
Dr. Bala Bharadvaj Sr. VP & Chair, Finance Board & Aerospace Board
Mrs. Rashmi Urdwareshe VP & Chair Membership Board
Mr. I.V.Rao VP & Chair, Engineering Education Board
Mr. Sanjay Deshpande Secretary
Dr.G.Nagarajan Treasurer & Co Chair Engineering Education Board
Prof. Prakash Joshi Member
Dr. Arunkumar Sampath VP, Chair Automotive Board & Vice Chair Finance Board
Mr. N.Balasubramanian Chair , Meetings and Exposition Board
Mr. P. Panda Co-Chair, Meetings and Exposition Board
Mr. Nitin Agarwal Chair, Off- Highway Board
Com.Rakesh B.Verma Co-Chair, Off Highway Board
Mr. Prakash Sardesai Chair, Professional development Program Board
Dr.R.Venugopal Co-Chair, Professional development Program Board
Mr. Balraj Bhanot Chair, Development Board
Dr. K.P.Murthy Co-Chair, Development Board
Dr.Sudhir Gupte Chair, Publications Board
Ms. Pamela Tikku Chair, Sections Board

Mr. Sanjay Nibhandhe

Co-Chair, Sections Board

Mr. S. Radhakrishnan

Co-Chair , Membership Board

Representing SAE International

Dr. David. L. Schutt

CEO, SAE International

Mr.Murli M. Iyer

Executive Global Advisor, SAE International

Presented by SAEINDIA Publications Board

Dr.Sudhir Gupte

Chairman

Mr. Asit Kumar Barma

Vice Chair

Mr. Vasanth Kini

Member

Mr. Rajesh Kumar

Member

Mr. Saravanan Natarajan

Member

Mr. Dhananjayan

Member

Dr. Vijaykanthan Damodaran

Member

Mr. Deepak Sawkar

Member

Mr. Jitendra Malhotra

Member

Dr.S.Selvi

Member

Mr.T.Bharathiraja

Member

Ms. Swati Milind Athavale

Member

Mr. Manohar K. Chaudhari

Member

Dr.M.K. Ravishankar

Member

Winning Teams of Skimmer (5th Standard):

S. No	Category	Name of The School
1	Overall Winner	Shriman Gangadhar Govind Patwardhan English Medium School, Ratnagiri
2	Overall 1 st Runners-up	G.P.H.S. Honnasandra, Bengaluru
3	Overall 2 nd Runners-up	Valentine Circle English Medium School, Solapur

Winning Teams of Jet toy (6th Standard):

S. No	Category	Name of The School
1	Overall Winner	Saupins School, Chandigarh
2	Overall 1 st Runners-up	G Ashraya Neelbagh School, Bengaluru
3	Overall 2 nd Runners-up	Pragati Madhyamik Vidyalaya, Nashik

The AWIM 10th National Olympics valedictory function was presided over by Dr. Anil Sahasrabudhe, Chairman, AICTE, Delhi, as the Chief Guest who gave away the prizes to the winning teams. Apart from the winner of the competitions, the teams were also lauded for their performance in several aspects. This 10th edition of AWIM concluded on an enthusiastic note, with the Industry fraternity waiting for Glider toy to be added to next year's AWIM Activity.

BAJA 2018:

BAJA SAEINDIA is an educational pursuit for the engineering college students, an out-of-classroom-education system, where engineering students from all over India can participate as a team to design, analyse, fabricate and validate an all-terrain vehicle which gives them a pragmatic exposure to real world challenges as faced in the industry.

This 11th edition of BAJA SAEINDIA 2018 was with the theme 'Ground to Glory' which celebrates the passion, hard work and perseverance of the budding engineers who start their journey from scratch and traverse throughout the year to turn their dreams into reality. From this year onwards the event will be held in two places as a move of increasing the participation opportunity of more teams. This 11th edition was held at both Indore of Madhya Pradesh & Ropar of Punjab.



INDORE:

The 1st leg of 11th edition which was held at the National Automotive Testing and Research & Development Infrastructure Project (NATRIP) facility at Pithampur near Indore, from 24th to 28th of January 2018 followed by HR meet on 29th & 30th January 2018. It was of two events namely mBAJA & eBAJA where the 1st is the conventional BAJA and the 2nd is the concept of electric driven BAJA ATVs to lay emphasis on "Electrical Mobility".

About 388 entries were received for BAJA SAEINDIA 2018, out of which 180 teams were shortlisted for conventional BAJA and 41 teams for eBAJA. In both the cases the teams have to undergo Technical Inspection, Static Evaluation such as Design, Cost & Sales Presentation and Dynamic Events such as Acceleration, Sled Pull, Suspension & Traction and Manoeuvrability in sequence. Finally the endurance round which will be of 2 hours for eBAJA and 4 hours for mBAJA events on the final day followed by prize distribution on the valedictory function. The results are,

Category	Event	Name of The Team, College & Weight
Light Vehicle	mBAJA	Team Nemesis, College of Engg., Pune & 126.2 Kgs
	eBAJA	Team Stallion, Smt. Kashibai Navale College of Engg., Pune & 206.5 Kgs
Overall Winner	mBAJA	Team Nemesis, College of Engg., Pune & Team Durgayans, Dr. DY Patil Inst. of Tech., Pune
	eBAJA	Smt. Kashibai Navale College of Engg., Pune

ROPAR:

This is the 2nd leg of the 11th edition which was held at Indian Institute of Technology (IIT), Ropar from 08th to 11th of March 2018. The event had only mBAJA where the ATVs ran on 10 HP Briggs & Stratton (B&S) Gasoline Engine whereas eBAJA vehicles will run on electricity, propelled by an electric motor and powered by a rechargeable lithium-ion battery pack.

About 58 teams took part in the event. All the teams have to undergo the following test on this four-day event namely Technical Inspection, Static Evaluation such as Design, Cost & Sales Presentation and Dynamic Events such as Acceleration, Sled Pull, Suspension & Traction and Manoeuvrability in sequence finally to the endurance round on the final day. The results are,

Category	Event	Name of The Team, College & Weight
Light Vehicle	mBAJA	Team Engines and Demons, Indian Institute of Tech., Indore & 138 Kgs.
Overall Winner	mBAJA	Team Screwtenizers, Govt. college of Engg., Coimbatore & Team Aryans, Govt. College of Engg., Aurangabad

Both the 1st and 2nd legs of 11th edition was supported by Mahindra who played a prominent role in starting the event since its inception under the able leadership of Dr. Pawan Goenka as the Chairman of the Steering committee of BAJA SAEINDIA.

Since last 8 years Mahindra has been the title sponsor and proudly continues to remain the same this year too, and others like ARAI, Altair, Anand Automotives, Ansys, ASDC, AVL, Bharat Petroleum, BKT, Bosch, Briggs & Stratton, Chitkara University, Continental, Cummins, Eleation, GM, IIT Ropar, iCAT, ITW Chemin, Lear, L&T, LNCT Indore, Math Works, Medanta Hospital, Mentor Graphics, M P Consulting, MYFM, NATRiP, OYO Rooms, Padmini Engineering, Polaris, Priya Events, PTC, Radisson Hotels, V J Productions, Varroc, Volvo and Wurth, SIAM, ACMA, ASDC & AICTE also proudly continuing their support towards the event.

SAEINDIA Section News - Bangalore (SAEIBS)

AWIM REGIONALS:



On January 06th 2018 at TVS IQL, Anekal SAEINDIA Bangalore section (SAEIBS) conducted AWIM Regional Olympics for the Bangalore region. More than 130 students from nearly 11 schools across Bangalore region participated in the competition for both Jet-toy and Skimmer categories. The Event was supported by Industry volunteers from TVS Motors, GE and Continental AG.

The teams from both RICE MMS & GHPS Honnasandra won the prize in the Skimmer category. The team from RICE MMS won the prize & Ashraya Neelbag from Kolar won the runners up in Jet-toy Category.

TECH TALK:



11th January 2018 was a very exciting day for General Motors Technical Centre India (GMTCI). We had the very dynamic and brave racer Mr. Akhil Rabindra gracing us with his visit who gave an inspirational speech to the employees gathered.

Akhil's presentation covered his journey as a racer from his first steps as a Go-karting racer to Formula 3 to McLaren GT. He also covered the different training routines which he had to undergo both mentally and physically as well. Akhil held the entire crowd captive with his humble and charming attitude.

The SAEINDIA members within GMTCI also got a chance to personally interact with him separately after his presentation where Akhil had shared many personal stories and also told us about his future plans. Mr. Brian McMurray, Vice President – Engineering and Operations met and congratulated Akhil for his achievements. Brian and Akhil also discussed the current scenario of racing in Britain and what the future scope is.

The team GMTCI thanked both SAEINDIA and ASM Technologies for making this happen and giving GMTCI a delightful experience especially for young energetic members. The entire team wished Akhil all the best in his endeavours and hoping to see him in the Formula 1 scene soon!

TECH TALK:



On 17th Feb 2018 SAEIBS organised a tech talk at Christ University, Bangalore. Mr. Devraj Thuppad from Continental AG delivered a technical talk on recent trends in powertrains.

Tech talk was more interesting on future trends in Automotive upon 48V, Hybridization, Electrification in powertrains. Around 80 students participated. The session went well with good interaction with Students with Q&A.

SAEINDIA Section News - Bangalore (SAEIBS)

TECH WORKSHOP:



In collaboration with Christ University, SAEIBS conducted a 2 day workshop on Basics of Automobile, Vehicle Dynamics, Design and Development at the University on 27th and 28th of February 2018. Around 10 technical sessions on Vehicle Dynamics, Design and Development, Artificial Intelligence, internet of Things, Networking, coding, lean Management etc., with 7 non-technical session like dancing, catering, etc., were organised on these days.

On day 1 Mr. Ram Kumar, Asst. Professor, Christ University gave seminar on Basics of Automobile, Vehicle design and development. On day 2 the morning session was handled by Dr. Manish and Mr. Rakesh Bidre who presented wonderful tech talk on Vehicle Dynamics, Ride quality, Weight distribution, steering kinematics, types of tyres, Importance of Centre of gravity, ABS, H and X split of brake, Camber, caster, toe in/out, kingpin axis inclination etc., In the afternoon session there was a session on Hands on Experience of Engines and transmission handled by team of experts who coordinate both m-BAJA & e-BAJA events as faculty advisors.

SAEINDIA Section News - Northern (SAEINS)

TECHNICAL LECTURE:



SAEINDIA Collegiate Club of ABES Engineering College organised a lecture series and interactive session on the "Role of Engineering Aspirants in Core Industry" on 10th February, 2018 well attended by engineering students from Mechanical, Electrical, and Electronics and Communication Engineering departments of the host college.

The event started with "LAMP LIGHTING" and "SARASWATI VANDANA" followed by "SAPLING PRESENTATION" to the respected dignitaries on the dais. The day's proceedings were inaugurated by Dr. Gajendra Singh, Director, ABES Engineering College who spoke about the importance of being aware about the happenings in the industry as well as being good at the studies. He also emphasized the fact that the students should focus on competence and work hard towards their goal.

The event was divided into 2 parts. The 1st part is of two lectures, started with Metallurgy and Metrology which is followed by the lecture on CNC and Automation. The 2nd part of the event was an interactive session in which students got a chance to interact with Alumni of the college. Various industrial experts, alumni, final year placed students were invited for both the parts of the event.

Students were really curious about the work done by their senior members of SAEINDIA. They asked various questions and clarified their doubts. The event was concluded by Dr. DK Sharma, Director Admin, ABES Engineering College with a vote of thanks followed by dinner to all the dignitaries along with alumni.

SAEINDIA Section News - Northern (SAEINS)

STUDENT CONVENTION:



SAEINS successfully organized the Student Convention program in Arya College of Engineering and Information Technology (ACEIT), Jaipur on 16th Feb 2018 with more than 700 participating engineering students from various institutions in and around Jaipur.

The event started with the auspicious Lamp Lighting which was followed by Welcome Address by Dr. Arun Kumar, Director, ACEIT. Mr. Rakesh Sood, MD, Trim India and Vice Chairman, Student Activities, SAEINS was the Guest of Honour at the Convention and Mr. Anup Kacker, ED, SAENIS was also present at the event. Mr. Sood had briefed about the bridging the gap between Academia and Industries, SAEINDIA Foundation, FISITA World Congress and the 1st Summer School on Automotive Technologies for Industry and Faculty to the participants.

There were about 3 Invited Lectures in the event namely the 1st on 'Air Quality Studies, Fundamental of Vehicle Testing and Alternate Fuels for Transport Sector' by Dr. Prashant Kumar, I.O.C.L the 2nd on 'Transport Refrigeration System' by Mr. Kamal Sharma, Subros and the 3rd on 'New Product Development in Automobile Industry' by Mr. Sanjay Kumar Gupta, MSIL.

Besides the above, the event had sessions on Paper Presentation, Sketching and Automotive Quiz evaluated by Industry Members and Cash Awards presented to the winning teams and members from all the sessions at the valedictory Function of the event.

SAEINDIA Section News – Southern (SAEISS)

KRT COMPETITION - CAD:



SAEINDIA Southern Section (SAEISS) as a part of the engagement of the professional members had organized a KRT competition on Computer Aided Design (CAD) on 7th January 2018 at Hotel Radha Regent, Chennai. Nearly 25 teams from various Academia and Industries participated in the event.

During the inaugural Function Mr. S. Sriraman, Chairman, SAEISS; Mr. S. Selvamani, Past Chairman, Mr. S. Shanmugam, Vice-Chairman, SAEISS and Mr. B. Srinivasan, KRT Champion took the stage. Mr. B. Srinivasan welcomed all the participants, volunteers and Judges for the CAD Competition. He informed all the participants about the rule book and evaluation criteria for the competition by giving the brief details about the event and requested Mr. S. Sriraman to give his Inaugural Address. Mr. S. Shanmugam then explained the need for the KRT Competition which can increase the design capabilities of members of SAEINDIA.

The 1st Place in the competition was shared by Mr. Rajesh Kumar and Mr. Ameer Malik Shaik both from Combat Vehicles Research & Development Establishment (CVRDE), Chennai who were honoured with Certificate, memento and prize money of ₹ 50,000/- . Mr. S. Shanmugam thanked all the participants for their involvement and also requested their continuous support for all the programs organized by SAEISS.

KRT COMPETITION - CAE - FEA:

SAEINDIA Southern Section (SAEISS) as a part of the engagement of the professional members had organized a KRT competition on "Computer Aided Engineering (CAE) - Finite Element Analysis (FEA)" on 18th February 2018 at SRM Institute of Science & Technology, Vadapalani, Chennai.



During the inaugural Function Dr.R. Rajendran, MC Member, SAEISS; Mr. Karthikeyan, Ucal Fuel Systems; Mr. Kumar, Professor, SRM Institute of Science and Technology took the stage. Dr. R. Rajendran gave the welcome address. He welcomed all the participants, volunteers and Judges for the CAE-FEA and gave the brief details about the event and invited Mr. Karthikeyan to make an enlightening Inaugural Address. After the designing process was completed then the Judges started their evaluation process of all teams.

During Valedictory function Mr. B. Srinivasan, KRT Champion, SAEISS thanked all the participants, Judges and Volunteers for making the event a grand success. The 1st Place of the competition was shared by Mr. S. Vivek and Mr. T. Sukumar both from WABCO INDIA Ltd, Chennai who were honoured with Certificate, memento and prize money of ₹ 50,000/- . Mr. Karthikeyan thanked all the participants for their involvement and also requested their continuous support for all the programs organized by SAEISS.

TOPTECH PROGRAM – FAILURE MECHANISM:



Toptech program on “FAILURE MECHANISM AND PREVENTION IN AUTOMOTIVE COMPONENTS” was organized by SAEISS on 09th & 10th March 2018 at Radha Regent Hotel, Chennai.

The Speakers of the session were Dr.R. Rajendran, Professor, SRM Institute of Science and Technology, Chennai & Mr. V.P. Balaji, Leader- Materials, WABCO INDIA Ltd.

Dr. R. Rajendran started the session with the basics of the most of the failure mechanisms which are due to the physical degradation of components based on the operational conditions combined with component features like design, materials and surface treatments. He briefed the importance of tolerance stack and being familiar with the stack method, stack from, and the stack spread sheet. He also explained calculate part stacks using coordinate dimensions, run out and concentricity, Bilateral and unilateral profile tolerances, multiple geometric tolerances, position tolerance at RFS and MMC, and datum reference at MMC.

Mr. Balaji said that the Characterization of engineering metals and alloys has been globally recognized, as an important step in quality assurance programs and in improving the productivity of industrial units. The role of metallography in obtaining controlled microstructure for improving the service life of components is being increasingly appreciated. Metallographic techniques are also extensively used for assessment of their remaining useful life. This course is designed to provide the knowledge to bridge the gap between theory and practice of failure analysis. Case studies would also be presented.

Mr. B. Srinivasan, MC Member, SAEISS thanked both the speakers and distributed the certificates to the participants on the valedictory function.

TOPTECH PROGRAM:



Toptech program on “Tolerance Stack Up Analysis” was organized by SAEISS on 02nd & 03rd February 2018 at SAEISS Office, Guindy. The speaker for the session was Mr. S. Shanmugam, MD, Design Desk (India) Pvt Ltd and Vice-Chairman, SAEISS.

Mr. S. Shanmugam started the session with the basics in the tolerance stack up, how to create tolerance stacks using the two column method. He explained the importance of tolerance stack and being familiar with the stack method, stack from, and the stack spread sheet.

He also explained calculation of part stacks using coordinate dimensions, run out and concentricity, Bilateral and unilateral profile tolerances, multiple geometric tolerances, position tolerance at RFS and MMC, and datum reference at MMC.

Mr. Aiyappan Ramamoorthy, MC Member, SAEISS delivered the valedictory address thanking Mr. S. Shanmugam for sharing his knowledge with the participants. Mr. M. Khader Basha and Mr. B. Balaji distributed the certificate to the participants.

ADC – WORKSHOP 2:



SAEISS conducted Aero Design Challenge (ADC) workshop at SRM Institute of Science & Technology, Chennai on 3rd & 4th March 2018. In the inauguration, Dr. S. Senthil Kumar, ADC Champion & Professor, Veltech University, Chennai welcomed the dignitaries and participants and gave a brief outline about the ADC 2018 workshop.

Mr. T. Kasiraja, Treasurer, SAEISS thanked SRM Institute of Science & Technology for hosting the ADC Workshop. He explained how the UAVs developed by MIT team are helpful in many real time practical situations for the Tamilnadu police department and National Disaster Response Force (NDRF) India. The participants were inspired after seeing the video taken with the help of MIT-UAV during the flood situation in Chennai and how their UAVs saved many lives during that situation.

On the 2nd day all the teams who had completed the fabrication of their own UAV models, were asked to perform the flight test of their models successfully with the help of trainers and flyers at designated place. The dynamic performances of the models were depending upon the accuracy in building the aero models.

The students were happy as they could understand the fundamentals and design process of the UAV and all their models were flying successfully. They could also understand and appreciate the importance of accuracy and role of each control surface for a successful flight of their models.

ADC – WORKSHOP 1:



SAEISS conducted Aero Design Challenge (ADC) workshop at Jeppiaar Engineering College, Chennai on 17th & 18th February 2018. In the inauguration, Dr. S. Senthil Kumar, ADC Champion & Professor, Veltech University, Chennai welcomed the dignitaries and participants and gave a brief outline about the ADC 2018 workshop.

Mr.S. Shanmugam, Vice-Chairman, SAEISS and Mr. T. Kasiraja, Treasurer, SAEISS, talked about the evolution of SAE and SAEINDIA and motivated the students to take part in the continuous learning process through various SAE student activities. He also thanked Jeppiaar Engineering College for hosting the ADC workshop in their college and presented the memento to the host institution.

After the basics, the students were explained about the Engineering Design and Fabrication Process of UAV by Dr. R. Krishna Kumar, Member, ADC & HOD, EEE, Vels University and Dr. S. Senthil Kumar along with 9 Research associates of Centre for Aerospace Research (CASR), MIT, Chennai.

The students were also taught about propulsion system, avionics systems and control surfaces of UAV. They received their kits for making UAV and started their work on design and fabrication of aero model as per the instruction given by the trainers from the CASR, MIT. All the UAV models designed and fabricated by the teams were checked out by the trainers and flyers before the flight test in order to have proper stability requirements.

On the 2nd day all the teams who had completed the fabrication of their own UAV models, were asked to perform the flight test of their models successfully with the help of trainers and flyers at designated place.

FACTORY VISIT:



SAEISS organized a Factory Visit to Caparo Engineering India Pvt Ltd, Sriperumbudur on 31st January 2018 with 46 participants. Caparo Engineering India Limited designs, develops, and manufactures automotive systems, assemblies, advanced composites, modules, and components for automotive OEMs and engineering majors. The participants were taken into all sorts facilities available there under the guidance of Mr.K. Muniyappan, RNTBCI, Champion – Factory Visit with the SAEISS staff Mr. S. Arun Kumar. The participants were explained on the importance of TOOLS in such industries in all aspects.

FACTORY VISIT:

SAEISS organized a Factory Visit to Ashok Leyland Technical Centre, Vellivayal Chavadi, Chennai on 15th February 2018 with 35 participants. Mr. Jovin Joy gave an overview presentation about the history of Ashok Leyland and briefed about the types of vehicles and the categorized the vehicles which are manufactured by Ashok Leyland.

Six-poster road simulation laboratory is the one and only modernized testing facility present in Ashok Leyland Technical Centre in INDIA which is approved by NABL. This lab can stimulate the stresses that a vehicle experiences when it is operated in road. The various conditions for a vehicle which have to undergo for 10,00,000 km can be stimulated within 60 days. Apart from this Engine R & D, Component Testing and Test Tracks are also available in this facility to cater the R & D needs of the company.

ADC – WORKSHOP 3:



SAEISS conducted Aero Design Challenge (ADC) workshop at St. Peter's College of Engineering & Technology, Chennai on 16th & 17th March 2018. In the inauguration, Mr. T. Kasi Raja, Treasurer, SAEISS welcomed the dignitaries and participants and also gave a brief outline about the ADC 2018 workshop

Dr. S. Senthil Kumar, ADC Champion & Professor, Veltech University, Chennai talked about the evolution of SAE and SAEINDIA and motivated the students to take part in the continuous learning process through various SAE student activities. Mr. M. Khader Basha, Chair, Chennai Division, thanked St. Peter's College of Engineering & Technology for hosting the ADC workshop in their college and presented the memento to the host institution.

After the basics, the students were explained about the Engineering Design and Fabrication Process of UAV by Mr. B.T. Kannan, Professor, SRM Institute of Science & Technology. They received their kits for making UAV and started their work on design and fabrication of aero model as per the instruction given by the trainers.

On the 2nd day all the teams who had completed the fabrication of their own UAV models, were asked to perform the flight test of their models successfully with the help of trainers and flyers at designated place.

SAEINDIA Section News - Southern (SAEISS)

KRT COMPETITION – ENGINEERING DRAWING:

SAEINDIA Southern Section (SAEISS) as a part of the engagement of the professional members had organized a KRT competition on ENGINEERING DRAWING (ED) on 18th March 2018 at SRM Institute of Science & Technology, Vadapalani Campus, Chennai. Nearly 31 teams from various Academia and Industries participated in the event.

During the inaugural Function Dr. R. Rajendran MC Member SAEISS, Mr. S. Ganapathi, Ucal Fuel System Ltd, Dr. G. Nagarajan Deputy Dean -SRM Institute of Science and Technology took the stage Dr. R. Rajendran gave the welcome address. He welcomed all the participants, volunteers and Judges for ENGINEERING DRAWING and requested Dr. G. Nagarajan to give his Inaugural Address.). Mr. B. Srinivasan, MC Member, Champion KRT then explained the need for the KRT Competition which can increase the design capabilities of members of SAEINDIA.

Mr. S. Ganapathi Ucal Fuel System Ltd started the competition by informing all the participants about the rule book and evaluation criteria for the competition. The teams were then issued with the print out of the Question for the Engineering Drawing.

The 1st Place in the competition was shared by Mr. T. Aravind Muthu Suthan and Mr. M.P. Jagadeesan from Ucal Fuel Systems who were honoured with Certificate, memento and prize money of ₹ 50,000/- . The 2nd Place of the competition was shared by Mr. Edwin Singh and Mr. M. Anbazhagan from Ucal Fuel Systems Limited who were honoured with Certificate, memento and prize money of ₹ 30,000/- .

Mr. S. Shanmugam thanked all the participants for their involvement and also requested their continuous support for all the programs organized by SAEISS.

SAEINDIA Section News - Western (SAEIWS)

SHORT TERM TRAINING PROGRAM:



A short term training program on “Two Wheeler Technology” was held at L. D. College of Engineering, Ahmedabad from 26th Dec 2017 to 5th January 2018 jointly organized by SAEINDIA & L.D College of Engineering.

Program Objectives of Training Program are as follows:

- Imparting comprehensive knowledge about the basic design concepts and components of Two Wheelers.
- Improving the industry- academia interactions by providing hands-on experience on the Two Wheelers.
- Sharing the recent developments in the field of Two Wheelers and the move towards Green Vehicles globally.

The entire event was planned such that from the beginning there will be 2 to 4 technical sessions on all the days from day 1 by various invited experts. The topics covered are,

- Technological revolution of two wheelers in Indian market.
- Classifications, layouts & engine technologies for current two wheelers.
- Engine Emissions & Advance Materials for Two Wheelers.
- Latest Fuel Supply Technologies.
- Technologies of Super Bikes.
- Lubrication and Cooling Systems.
- Cranking Mechanisms and Clutches.
- Transmission, Steering, Suspension & Braking Systems.
- Maintenance of Vehicles, Emission Legislation for Indian OEMs and Two Wheeler Testing.

All the participants have taken sincere interest to learn various aspects of Two Wheeler Technology throughout two weeks with four sessions each day.

ONE DAY WORKSHOP – WAKAD OFFICE:

One day workshop on “Developing Supply Strategy” was organized on 06th Feb 2018 by SAEIWS office in Wakad, Pune, which witnessed participation from engineers and faculty in the discipline of engineering. The speaker for the lecture was Mr. Narahari Prabhakar Rao Wagh, Director- Vector Engineering Solutions.

Suppliers are critical to a company’s success and its profit. They are at the heart of many of the organizations processes and activities. Hence it is important to effectively manage relationships with supplier.

Mr. Narahari P. Wagh’s presentation was on the following subtopics namely,

- Main Elements of Supply Strategy.
- Identification of four quadrants of Supply Positioning Model.
- Understanding 6 main types of Buyer - Supplier relationships.
- Merits -Demerits of Make and buy decisions.
- Define supply strategies for specific Routine, Leverage, Bottleneck and Critical items in terms of :
 - a) Number of suppliers to use.
 - b) Types of supplier relationship.
 - c) Type of contract to use.
 - d) Operational strategies.
 - e) Ideal supplier characteristics.
 - f) Types of individual buyers to be involved.

Mr. Jitesh Singh Chandawat, Manager, SAEIWS felicitated Mr. Narahari Wagh for his brilliant presentation. Mr. Sagar V Murugkar, Asst. Manager, SAEIWS proposed a vote of thanks for the event.

TECH TALK – AKURDI:

On 15th February 2018 SAEIWS organized a Tech Talk Lecture by Dr. K. C. Vora at Dr. D. Y. Patil Institute of Engineering, Management and Research, Akurdi for the members of collegiate club on the topic "Automotive Emission Control". The event was well witnessed by the participants from the host college.

ONE DAY WORKSHOP – WAKAD OFFICE:

One Day Workshop on “Professional Development For Engineers” was organized by SAEIWS on 16th March 2018 at SAEIWS Office, Wakad, Pune. It witnessed participation from Industry engineers, students and faculty in the discipline of engineering. There were 31 participants in this workshop. Speakers for the workshop were Dr. K.C. Vora & Mr. A. S. Kulkarni from ARAI Academy.

Dr. Prem Sethi was the Chief Guest, and is the Founder Chairman Odser Charitable Trust. He did the opening ceremony by lamp lightening and welcomed all the participants.

In this workshop the following topics were covered:

- Types of skills required.
- Requisites for a promotable executive.
- Professionalism at Work.
- Professionalism at Work Knowledge.
- Professionalism at Work Skills.
- Professionalism at Work Attitude.
- Personality Development.
- MBTI: Myers–Briggs Type Indicator.
- About SWOT Analysis.
- How to conduct SWOT Analysis?
- Benefits & Pitfalls of SWOT Analysis.
- Personal & Professional Goal Setting.
- About “SMART” Goals.
- Communication Skills.
- Professional Ethics & Etiquettes.
- What is meant by Passion & Confidence?
- What is meant by Performance?
- What’s your “LQ” Leisure Quotient?
- Pareto’s Principle & Stephen Covey’s Time Management Matrix.
- Effective Time Management.
- Exercise on Team Building & Leadership Skill.
- Exercise on Team Work and Creativity.

During the valedictory function Mr. Ramesh Pasrija, Dy. Director, SAEIWS felicitated the chief guests Mr. P. V. Sardesai, Prof. P. B. Joshi and the speakers Dr. K. C. Vora & Mr. A. S. Kulkarni with a memento as a token of appreciation. Mr. Narahari P. Wagh, Secretary, SAEIWS proposed a vote of thanks.

ICDMT - MUMBAI:



Thakur College of Engineering & Technology, Mumbai in association with SAEINDIA, McGraw-Hill Education and International Journal of Scientific and Engineering Research (IJSER) organised a two day event International Conference

on Advances in Mechanical Design, Manufacturing and Thermal Engineering (ICDMT 2018) on 23rd & 24th February 2018 at Mumbai.

The Conference aims to provide international forum and a vibrant platform for academicians, researchers and industry practitioners from mechanical and allied engineering to share their original research work, practical challenges, recent innovations, trends and to explore methods of application of research to the technological development leading to human welfare.

The program comprised a multi-track agenda based on the areas as,

Track-1: International Conference on Advances in Manufacturing (ICAM)

Track-2: International Conference on Advances in Mechanical Design (ICAMD)

Track-3: International Conference on Advances in Thermal Engineering (ICATE).

About 72 papers were received in all 3 areas and 65 of them were presented in the respective tracks.

Supported By

K.Venkataraj,
Deputy Director General, **SAEINDIA**

D.Seshadri,
Executive Director, **SAEINDIA**

Created By

R.Srinivasa Raghavan,
Dy. Manager - Projects, **SAEINDIA**