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SUPRA SAEINDIA 2016

20th Anniversary of SAEINDIA

On 18th March 2016 at Hotel Le Royal Meridien in Guindy, Chennai, it was a grand assembly of Past and Present, Old and Young and Gen Next leaders from Automotive industry with eminent galaxy of Past Presidents of SAEINDIA and emerging young leaders from Sections & Divisions beaming with a sense of pride and personal satisfaction at the 20th anniversary of SAEINDIA. The Chairman of Infosys and Executive Vice-Chairman of Ashok Leyland Mr. Seshasayee graced the occasion as Chief Guest and Dr. Pawan Goenka, the prime architect of SAEINDIA in laying the foundation and building the organization brick by brick over the years was also there lending the evening a festive flavour.

Dr. Aravind Bharadwaj, President SAEINDIA welcomed the gathering and briefly walked down the memory lane and touched upon the significant events over the years and in particular the new programs and events organized in the last 2 years.

This was followed by a Rendezvous with Past Presidents of SAEINDIA with Mr. Sumantra Barooah of Autocar Professional as moderator and the views of Past Presidents ranged on wide variety of issues including Road Engineering and Traffic management, Technology provider and Innovator, and Skills development for ready employment and certification programs which will enable easy absorption into the industry. Past Presidents also recalled the history and the challenges faced in the formative years which have been turned into opportunities for growth and development.

A video encapsulating 20 years journey was released capturing in a short clip the remarkable transformation of last 2 decades with programs and events exciting the young children, igniting the minds of engineering students, National and International Conferences hoisting SAEINDIA flag high like APAC 16 and SIMCOMVEC traversing a new trajectory in the growth path of SAEINDIA.

Mr. Seshasayee, the Chief Guest when asked to share his association with SAEINDIA, spoke with a passion on the subject comparing the growth of automotive industry with the analogy of human evolution over a millennium and how the transformation takes place with driverless connected vehicles like billion neuron cells in the human body connect the functions and activities with such minute and meticulous precision. He touched upon the parasitic losses and the thermal losses in engines that are yet to be overcome while the internal organs in a human body such as brain have evolved significantly to be highly efficient and effective.

Reserving his compliment to Dr. Pawan Goenka to the end of his speech, he stated that he has always admired the stellar role Dr. Pawan has been playing in the growth of Mahindra and Dr. Pawan's brain child Scorpio was a path breaker and trend setter putting the company into the next orbit of growth. He added that Dr. Pawan richly deserves the Medal of Honor by FISITA and brings an element of pride to all of us as he is the 1st Indian chosen to receive

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the award. He wished Dr. Pawan Goenka and SAEINDIA a glorious future in the years to come and urged SAEINDIA leaders to seriously consider bridging the gender gap among engineers in the mobility industry.

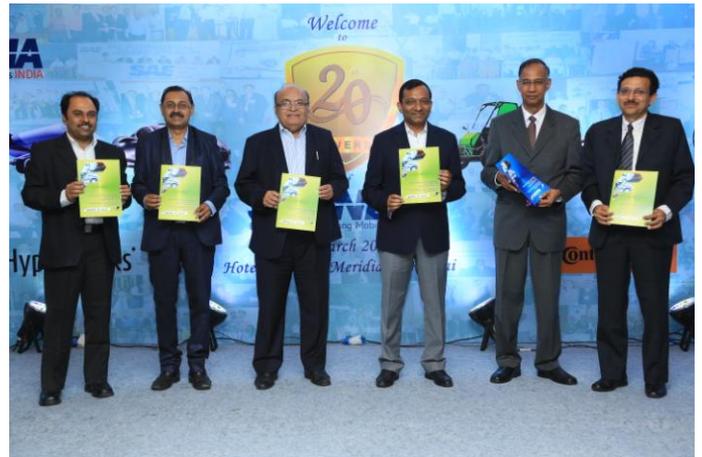


Dr. Pawan, thanking Mr.Seshasayee for his tribute, described him as a powerful orator whose eloquence and mastery on any subject are difficult to match and shared his long association with SAEINDIA after being appointed as Advisor in 1994. He described the formation of Sections in West, North & South and SAEINDIA combining all these under one umbrella. He recollected a brief association with ARAI and SAE International in 1996 wherein the visiting SAE International President readily agreed to his proposal of giving SAE Paper numbers to the publications in SAEINDIA conferences giving them due International recognition. He took the opportunity to recognize in absentia the outstanding contribution of Mr. Murli Iyer from SAE International over the last 20 years in making SAEINDIA grow to what it is today.

A brochure on FISITA World Congress 2018 was released to kick off the launch of the program and copies were distributed to the members on the dais. Dr.Pawn announced the theme for the Congress as "Disruptive Technology for Affordable and Sustainable Mobility".



The Coffee Table Book "SAEINDIA Growth Story- A Journey for 20 years" was released by Mr. Seshasayee and the Past Presidents of SAEINDIA were honoured by the Chief Guest with a memento thanking them for their valuable contribution to the growth of SAEINDIA.



Dr. Aravind briefly described AWIM program and how we are planning to raise a corpus of Rs.30 Million to fund the event on an annual basis from the proceeds thereof. Turbo Energy Limited paid Rs.3,00,000 towards the corpus while ANSYS pledged Rs.10,00,000 marking a healthy start to the long drive. Senior Leaders like Prof. T.R. Jagadeesan, Mrs.Rashmi Urdhwareshe, and Mr.I.V.Rao shared their experience with SAEINDIA followed by Young engineers and Student members.



Dr. R.K. Malhotra proposed a vote of thanks assuring Dr. Pawan the promises given in the evening interaction with him would be honoured during the next 2 years.

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SIIMC 2016 - SAEINDIA INTERNATIONAL MOBILITY CONFERENCE

SAEINDIA in association with SAE International was recently organized the 9th edition of SAEINDIA International Mobility Conference (SIIMC) with the theme “Safe Synergetic Sustainable Mobility Technologies for Future” on 8th, 9th & 10th February 2016, India Habitat Center, New Delhi. The conference focused on Key Technology issues relevant to mobility engineering such as Safety, Design, Information Technology, Electronics, Fuels & Environment.



The conference was inaugurated by Dr. Rajan Katoch, Secretary, Department of Heavy Industries, Government of India in the presence of Dr. Arvind Bharadwaj, President, SAEINDIA; Mr. Arvind Balaji, President, ACMA & Jt MD, Lucas TVS; Mr. S. Sandilya, Past President, SIAM & Chairman, Eicher Motors; Dr. R.K. Malhotra, Sr.VP, SAEINDIA and Mr. C.V. Raman, ED - Engg, Maruti Suzuki India and Chairman, Organizing Committee, SIIMC 2016.

In the Inaugural session the following Key points were discussed by the dignitaries viz,

- Outlook for Indian Auto Industry.
- Challenges of Urbanization and Sustainable Mobility, Stringent Safety Regulations & Emission Norms (BS VI by 2020).
- Need to develop technologies relevant to India.

The organizers received a total of 400 papers from R&D engineers from vehicle as well as component manufacturers. Under a rigorous SAE International process of review, a total of 91 papers, including 22 student papers, were selected for presentation during the three-day event. In all, 17 technical and 5 student sessions were held in addition to 11 Keynote presentations.

Another highlight of the conference this year was a TOPTECH Program on Crash Safety conducted by Dr. Joseph Kianthra, Former Associate Administrator, NHTSA, USA. SIIMC 2016 had very interesting and relevant Keynote Presentations and Panel Discussions on Electric Vehicle, Fuel Cell Future, Connected Vehicles and Advance Driver Assistance Systems (ADAS), Automotive Lighting and Light Signalling Technology, Automotive Safety, Advancing Safety in a connected Mobility Environment, Clean Air 2020 etc with the National and International Experts. There was 22 Technical Sessions chaired by leaders from Automotive Industry and separate Student sessions which brought out the brilliance of authors on wide variety of Industry related issues.



The Cultural event was truly appealing to the eye and intellect of the audience who applauded the fascinating show of talented artists. Here were about 25 Exhibitors who showcased the Latest Advancement and Innovations in the Industry. **SIIMC 2016 also created a new record by contributing Rs 1,50,000/- to All India Confederation of the Blind (AIBC) by converting cost of mementos to Guests as Donation to a Noble Cause.**

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8TH AWIM NATIONAL OLYMPICS

8th AWIM National Olympics was conducted at Mahindra Research Valley, Chennai (MRV) on 22nd & 23rd January 2016 located at Mahindra World City near Chennai. A State of Art auditorium was used for briefing participants and group meetings. The competition tracks were laid in very spacious halls. Spacious air-conditioned reception area was used for toy making by the participants. The National Olympics turned out to be a grand success with participation of 47 Teams from 19 cities across India. Out of the 47 teams 37 teams of 6th grade took part in JetToy challenge and 10 of 5th grade in Skimmer challenge. A special mention of should be made about participated this year a team of differently abled children.

SAEINDIA, in association with the lead sponsor Mahindra & Mahindra & Co-sponsor Eaton India, and Associate sponsors Turbo Energy (TEL), ANSYS, Continental Automotive Components, Adventek Fuel Systems, ARAI, Best Group, Dura Automotive, IBDIEN Co, Infienon Technologies, KYB-Conmat, Lucas TVS, Lumax Mannoh Allied Tech. Ltd, Minda Sai Ltd, Natesan Synchrocones Pvt. Ltd., Ramsays Corporations Pvt. Ltd, Ricardo (I) Pvt. Ltd, S M Auto Engineering Pvt. Ltd, TE Connectivity India, Tenneco Automotive, John Deere, EKK Eagle Products, & Mahindra World City club (MWC Club) organized the event to help ignite a passion in young children for Science & Maths.



The event commenced with Lamp lightning ceremony by the Chief Guest Mr. Arvind Balaji, Joint M.D. of Lucas TVS. In his address he appreciated the kids for exhibiting the courage to come for the event, demonstrate their skills & compete with each other in the right spirit.

Dr. Pawan Goenka, ED & Group President, Automotive & Farm Equipment Sectors, Mahindra & Mahindra Ltd. said, that have always focused on education as one of their core corporate social responsibilities, as they believe that it ultimately leads to a better quality of life. Competitions like AWIM which convey the principles of physics and motion in such an innovative manner will go a long way in developing the engineering potential of the youth.

Dr.Aravind Bharadwaj, President SAEINDIA & Sr. VP, Advanced Technology Mahindra & Mahindra Ltd, said "SAEINDIA brought AWIM to India with an aim to encourage more School Students to pursue career in Science and Engineering. We hope this event will motivate the young kids to create global products in the years to come."

Guest of Honor, Mr. Vishwanathan S ,Director TE India, was really amazed to see the energy levels showcased by the smart children. He was happy that such a novel initiative was run by SAEINDIA with the support of the Industry. He wished all the participating students a great success.



Mr. Rajiv Modi, Convener 8th AWIM welcomed the gathering. The children were overjoyed and fascinated when they were referred as "Young celebrities" by him. He appreciated the initiative of SAEINDIA & the generous support extended by all the Sponsors for the children who are the future architects of our Country.

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After the wonderful speeches by the guest, the inaugural ceremony was followed by a host of entertainment programs for the children so that they are stress relieved and feel rejuvenated. After the cultural program Mr. Saurabh Chitnavis, Member EEB, SAEINDIA gave Technical insight for both the challenges JetToy & Skimmer and presented the competition rules to the participants also answered the various questions posed by the kids.

On day two, the time when every team gave their best and blazed their Toy of Imagination. Teams spent 2 Hours for preparing different models for different Tests, including the Presentation chart and a dream car. These Toys were tested on the test track for different performance criteria such as Distance travelled, Weight carrying capacity, Longest travel time, Accuracy & Speed. After their track tests, the students had to go through a Presentation round, where teams were given a chance to portray their dream machine and explain jury about its technicalities. The jury panel was formed in a very thoughtful manner, involving people from varied professions, diverse background and having passion to engage in special initiatives like AWIM. The members were briefed about the initiative and their role in detail.

During the valedictory function, the event was graced by the presence of Dr. Bhaskar Ramamoorthy, Director, IIT Madras, as a Chief Guest & Dr. S Thirumalini, Chair EEB, SAEINDIA, Mr. Velusamy R, Sr. VP - Engines and Component, Mr. Sanjay Deshpande, VP – Testing & Validation & Mr. Virendra Gaikwad, Eaton as Special guests.



Team from Saupins School, Chandigarh emerged as the Overall Winner in JetToy Challenge, who would now participate in the SAE World congress which will be held

in Detroit, USA scheduled in April 2016. The Millennium School, Mohali, Punjab emerged as the Overall Winners for Skimmer Challenge.



Despite the challenging condition that the children faced during the National Event the children were ready the following day to visit Mahindra Research Valley, Chennai. They were thrilled to see the state of the art research facility with Hi-tech equipments, Machines, Test rigs, Test Tracks and the kind of an environment in which engineers work was truly mesmerizing for the kids. To most of the children and the teachers, the dream of visiting to an R&D of a global giant come true. We would like to make a special mention about the support extended by all the sponsors without which the event would not have been a grand success. The leads of all the sponsoring organizations expressed a sense of happiness to be able to contribute their share in the support of such a great initiative & assured a long term support to AWIM.

We bid farewell to 8th AWIM National Olympics with the fond hope that the event will grow from strength to strength making it one of the most sought after event by the children.



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BAJA SAEINDIA 2016

Passion, drive, motivation, zeal, call it what you want it is the self-driven attitude for BAJA SAEINDIA that made total of 8000 students from different engineering colleges participate this year. 395 teams were present at Virtual out of which 179 reached the grand finale. The 9th edition of the BAJA SAEINDIA concluded on 21st February 2016, followed by HR Meet on 22nd & 23rd February 2016, which was held in the very heart of our nation, Pithampur Indore, where the darkened ground and the rolling hills come together to become a very capricious track. On the outskirts of Indore, the NATRIP facility hosted BAJA Event for engineering students. For the occasion of Baja SAEINDIA 2016, students from all over the country had brought their indigenously built BAJA buggies for evaluation and bring their passion to podium.



This year, the teams were given a new track with natural hurdles spread over 5 kms, thus making it more challenging both for the vehicle and the drivers. In 9th edition, Students also created electric Baja buggies for the eBAJA event. This was the 2nd edition of eBAJA which aimed to provide a platform to leverage the onset of Electric Mobility in India. The conventional BAJA is all about petrol driven ATVs, eBAJA vehicles ran on electric power using electric motor powered by rechargeable Lithium Ion battery packs. The event saw participation from 9 colleges. The 'Best eBAJA Team' award was won by Smt. Kashibai Navale College of engineering, Pune.

Compared to the previous year a huge number of teams were able to complete the endurance course this time in the main BAJA, in spite of having a track which was

tougher than the previous year. Completing it in the quickest and most effective way was Team Nemesis from College of Engineering, Pune, who claimed the number one position for the BAJA SAEINDIA 2016. The team received nine awards apart for the overall championship title, whereas Alard College of Engineering, Pune and SRM University, Chennai grabbed the second and third positions respectively.



As is the trend every year, the event offered up a unique competition for young undergraduate engineering students wherein the participants came up with innovative designs, and sturdy build single-seater off-rovers. Hard work was observed in Silence and the Success was roared by the firing Buggies. Every team justified that it was all about hard work and Passion.



The teams enjoyed the event and had a treasure of memories to take back home with them. The next year's BAJA edition is going to be bigger and grander, more exciting bringing in adrenaline rush for participants and Auto enthusiasts. Mr. Ravi Kharul of Endurance Technology is the convener for next BAJA SAEINDIA 2017, scheduled 16th to 19th Feb 2017 followed by HR Meet on the 20th & 21st Feb 2017.

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SAEINDIA OFF-HIGHWAY LEADERSHIP ENCLAVE

Society of Automotive Engineers (SAEINDIA) Off-Highway Board, in association with Automotive Research Association of India, Ansys, Cummins India, Eaton Technologies, JCB, John Deere and PTC are organized a Leadership Enclave with a theme of "Off-Highway Industry – Growth Through Leveraging Talent & Technology Innovations" held on Tuesday 19th January 2016 at Hyatt Hotel, Pune.

The event was graced by Mr. Cunevt Oge, 2016 President, SAE International; Mr. Chris Myers, Director, Deere & Company; Mr. Tom Stover, VP Commercial Vehicle, Eaton Corporation and Mr. Murli Iyer, Executive Advisor - Global Affairs, SAE International along with the leaders from ARAI, Cummins, Automotive Research Association of India, Ansys, Cummins India, Eaton Technologies, JCB, John Deere and PTC and, and SAE Board members. There was a Panel Discussion during the event with the following leaders Mr. Amit Agarwal, Regional Director - Support & Services, Ansys; Mr. Devendra Bahirat, Business Head, John Deere Electronics Solution; Mr. Paul Sowerby, CTO, Cummins India and Dr. K C Vora, Sr. Dy. Director, ARAI who discussed about the Innovation and Talent in the Off-Highway Industry.

- How can the innovation in Off-Highway industry help meeting the challenge of implementing BS VI by 2020?
- Ways to improve the success rate of idea generation to commercialization.
- How can the current pool of young talent be the growth accelerator in the future for the off-highway industry to fulfill the demands of competitive economies?
- Benefit of skill development in off-highway industry with respect to all avenues.



In the Panel Discussion the following points are discussed viz,

- Kind of revolution you foresee in the Off-Highway industry and how to make it happen.

SAEINDIA AERO DESIGN CHALLENGE

SAEINDIA Southern Section conducted "Aero Design Challenge" on 17th & 18th March 2016 at RAMA (Rotor Association of Model Aircraft) Flying Field and 19th March 2016 at Hindustan Institute of Technology and Science (HITS), CHENNAI. SAEINDIA Aero Design Challenge is an annual collegiate competition series launched by SAEINDIA Southern Section during July 2015 for the first time in the history of SAEINDIA. After U.S and Brazil this event was launched in India. The event was planned for three phases.

- ❖ Design report submission by the teams.
- ❖ Flying proto type RC aircraft in an UAV airfield
- ❖ Oral design presentation

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The competition was conducted for Micro and Regular category. In Micro category student teams should design an electric RC aircraft with high payload lifting capability with a constraint of low empty weight. In Regular category teams should design an IC engine powered RC aircraft less than 6 feet wingspan. 75 student teams enrolled all over India and 47 teams registered for the competition. 40 teams from 30 different institutes across the nation completed the competition successfully.



Aero modelling workshop was conducted for all the teams to impart knowledge over fabricating their conceptual design. The workshop was conducted at HITS- Chennai (28th September 2015), KCE-Coimbatore (3rd January 2016) and MLRIT-Hyderabad (5th October 2015). All the teams attended the workshop and acquired knowledge required for aircraft design and fabrication. It is significant that workshop helped most of the Micro teams to fabricate their conceptual design successfully.

Later the rule book and evaluation criteria launch took place along with a student talent hunt at HITS- Chennai (19th December 2015). SAEINDIA Aerospace board representatives interacted with the students and selected ten students from various institutes to represent Indian aeronautical education sector to SAE International Aerospace Board during the event.

During the month of February 2016 student design report was collected from registered teams and evaluated by academic volunteers from MIT, IIT and from other reputed Indian institutes. The final event held during 17th to 19th March 2016.

Mr. T. Kasiraja, MC Member inaugurated the flying competition on 17th March 2016. Champion Mr. C.S.

Karunakaran explained the judging criteria in the presence of field judges. 17th and 18th March student teams flew their aircraft prototype at a private airfield near Achirapakkam, Kancheepuram owned by RAMA. PARAMOTORING show was conducted by RAMA Flying field on 18th March 2016.



Total number of 39 national awards was won by 25 teams during the event. In overall this activity was remarked as a mile stone in Indian aviation education by the national aviation analysts. This event is the first of its kind which had showcased industrial institutional strength of Indian aviation.

The Chief Guest for the valedictory function was Mr. P.H. Narayanan, CEO, UCAL Fuel systems. Dr. Ponramalingam, Registrar, HITS and other dignitaries shared the Dias with Chief Guest. Mr. Parvez Alam gave the welcome address. Mr. Srinivasan, R&D Head, UCAL Fuel Systems gave the MC note. Dr. Ponramalingam, Registrar, HITS gave the Special Address. Mr. P.H. Narayanan, Chief Guest, during his speech mentioned that this event had given a chance to realize Indian aviation students potential. He also mentioned that the success of the event was possible due to the support of the SAEINDIA Southern Section leaders, management of HITS-Chennai and RAMA flying field. Mr. C.S. Karunakaran presented the memento to the Chief Guest. Chief Guest presented the "ACADEMIC PARTNER" memento to Dr. Ponramalingam, Registrar, HITS.

Mr. T.V. Nagarajan, Dr. Dilip A Shah and Dr. Senthil Kumar felicitated with memento for being technical Judge for the Aero Design Challenge. Mr. Sangeeth Kumar, Mr. Sarweswaran, Mr. Vetrivel, Mr. Mahendran, Mr. Madhan Raj, Mrs. Jeyapradha and Mr. Praveen Kumar Balguri were felicitated for being the coordination volunteers for Aero Design Challenge.

Bangalore Section

Traffic Awareness Program – Continental

On 13th January 2016, SAEINDIA Bangalore section (SAEIBS), in association with Bangalore Traffic Police, had organized “Traffic Awareness Programme” at the campus of Continental Automotive components Ltd, Bengaluru.



Mr. Vasanth Bhagwat, Sub inspector of police of Traffic management centre, had an interactive session with more than 200 professionals of Continental and addressed the gathering about the overall road safety in terms of:

- Fire brigade & ambulance role.
- Pedestrian’s safety
- Enforcement agency & their roles in traffic handling
- Lane discipline & Public roles in traffic jams.
- Importance of golden hour in road accidents.
- Helpline numbers & other social mediums to address public problems and
- Passenger safety.



SAEINDIA Section News

Annual Offsite Meet

On 16th & 17th Jan, “SAEINDIA Bangalore section”, had an annual offsite meeting in California resort in Bangalore. The meeting was to have an overall glimpse of section activities done from the previous years and laying out strategic plan for the coming years to perform.



The meeting was attended by the Management Committee members Mr. Munirathnam, Mr. M. Kannan, Mr. Dhananjayan, Mr. Girish N Ramaswamy, Mr. Krishnan, Mr. Damodaran, Mr. Anoop Srinivasan, Dr. Prashanth Ravi, Mr. Vijayakanth Damodaran, Mr. Kp Murthy, Mr. Shivshankaran.

MC Meeting

On 13th February 2016, SAEINDIA Bangalore section had MC meeting in General Motors (GM) technical centre. Mr. Brian McMurray, Vice President, Engineering & Operations, GM had extended his warm welcome to the chairman of SAEINDIA Bangalore section Mr. Munirathnam Javaji & MC Members of the section. In this meeting, General Motors (GM) extended its full support to the SAEIBS to run its activities.



Panel Discussion

On 27th February 2016, TE connectivity in association with SAEIBS & RV College of engineering had jointly organized a panel discussion on “The exiting career opportunities in engineering design & Innovation”. The event was completely focused on the student community, regarding the design careers in engineering sectors and more than 235 students attended the event.

The event had the Panellists from the industry as well academia and they were Mr. ArunKakatkar, VP HR Asia Pacific, TE connectivity; Mr. Manjunath R. S, Director Engineering, TE connectivity India; Mr. Girish N Ramaswamy, Head of power train engine systems, System Engineering, Continental Automotive components; Mr. Pradip Kumar pandey, Sr Engineering manager, Global Engineering centre, UTC aerospace systems, India & Dr. K N Subramanya, Principal, R V College of Engineering.



Key people who contributed for this successful event were Mr. Raj Kumar - TE Connectivity; Mr. Munirathnam Javaji, Chairman, SAEIBS; Dr. Shanmukha, Professor, R.V.C.E.

Northern Section

Technical Session – TECH CORONA

On 11th March 2016, 'SAEINDIA HKBK collegiate club' had organized a technical session called 'Tech Corona', which was well attended by more than 200 students from Mechanical & Automobile engineering department and led by Mr. Jayanth.



Chief guest Mr. Vasagam- President of Institution of Engineers India, delivered key note speech, addressing the student community on how engineering solutions can bring change to the socio related problems.

Followed by Mr. Ravi ponnuswamy of Continental, representing SAEINDIA addressed the gathering and spoke about,

- Emission standards & its importance to automotive sectors.
- Dominance of gasoline powered hybrid electric vehicles in upcoming days &
- Future of electric vehicles.

Mr. Rangareddyenti -President IEI alumni association, Principal, HOD& Faculty advisor of HKBK college of Engineering was the Guest of honour and the event was supported by Mr. KP Murthy, Vice Chairman.

SAENIS Collegiate club Technical Lectures brief report

The SAEINDIA collegiate club inaugural function was started with the invocation and lighting of Kutthuvilakku by Dr. B. Chidhambararajan, The Principal, Valliammai Engineering College and other guests at 2.30 pm on 5th February 2016.

We have visited in colleges as mentioned table during the period of Jan'16 to Mar'16 as a part of SAENIS Student activities and to interact with students over a topic which is mostly undiscovered during academics. During below technical lectures it has been pointed out prominently that students are highly motivated towards automobile & various SAE competitions and share a great enthusiasm for the same.

Sessions were inaugurated by an interactive talk on SAE origin, structure and activities conducted by Mr. Anup Kacker, ED –SAENIS and followed by an interesting technical lecture respectively.

These sessions also provided a platform to interact with faculty members for promotion of SAEINDIA activities on college level, so majority of students across all streams could be benefitted.



Southern Section

Lecture Meeting

Lecture Meeting on Engineering Problems and Solution Methods in Automotive Industry was organized by SAEINDIA Southern Section on 30th January 2016 (Saturday) at the Hotel Vestin Park, Egmore. Mr. S. Selvamani, Mentor, NPD Cluster program, ACMA Centre for Technology delivered the lecture on the above topic. Mr. S. Selvamani, Mechanical Engineer, passed out in 1976 with Honours and first rank from Madras University. Post graduate in Design for Manufacture from Cranfield Institute of Technology, UK. In his 40 years of experience, he has solved a large number of problems of various types. He has now agreed to share his experience in solving engineering problems through the training program, "Engineering Problems and Solution Methods in Automotive industry" to help both practicing engineers and academic faculty.



Mr. S. Shanmugam, Secretary, SAEISS inaugurated the program and introduced the speaker. Excellent speech was given by the Speaker on Engineering Problems and Solution Methods in Automotive Industry and it was well

appreciated by the professional members of SAEINDIA. Mr. Mohanakrishnan expressed his ideas and advantages of the lecture meeting. Mr. T.R. Sathyanarayanan, Treasurer, SAEISS thanked for the valuable ideas shared by the speaker. Mr. T.R. Sathyanarayanan and Mr. Mohanakrishnan presented a memento to the speaker.



club in their Industries and Institution. Finally everyone shared the memorable experience of the program and appreciated the steps of SAEINDIA Southern Section to bridge the get in the Institute and Industry.



Student Knowledge Improvement Program (SKIP)

Student Knowledge Improvement Program (SKIP) on Challenges and Issues on Fuel cell technology- Potential, Advanced power source for the future conducted on 19th and 20th February 2016 by Dr. P. Karthikeyan, Associate professor, Dept. of Automobile Engineering at PSG College of Technology (PSGCT), Coimbatore, INDIA. He received various National and International Research Projects sponsored by various government funded agencies such as DST, AICTERPS, DST-CONACYT and DST-EPSC. Being Head for Research activity in Fuel cell Technology @ PSGCT, Coimbatore had set up fuel cell laboratory in the college with the tie up of University of Toledo, Toledo, OHIO, USA.

Mr. T. Kasiraja, SAEISS MC Member introduced the speaker and

inaugurated the program. 17 student members from 7 different colleges have participated in this program.

Student members appreciated and informed that the technical session handled by the faculty was wonderful and highly helpful for their future studies. Mr. T.R. Sathyanarayanan SAEISS Treasurer thanked the speaker for sharing his knowledge and enlightening of the students and presented a memento to the speaker.



KRT TREK

KRT Trek was organized by SAEINDIA Southern Section on 31st January 2016 at Mahabalipuram shore temple, Kanchipuram District. We have received 14 participants for the TREK program from different organization of Tamilnadu. SAE KRT Trek is an initiative from SAEINDIA Southern Section for the professional and faculty members.

Mr. Yogesh, MC Member, SAEISS gave a brief introduction to the participants about the activities of SAEINDIA Southern Section and the importance of KRT Trek program to the participants. Each participant enjoyed the view of the shore temple and light house. Each participant gave self-introduction to the co-participants to know each other. Each Participant registered their suggestion how to form KRT

Toptech Program

Toptech program on "Application of Finite Element Analysis" was organized by SAEINDIA Southern Section on 26th & 27th February 2016 (Friday & Saturday) at the Hotel Radha Regent, Chennai. The faculty for this Toptech program was Dr. V. Ramamurti, FNA, FNAE, FASc and Consultant. Prof. Ramamurti got his PhD from IIT, Madras in the year 1970. He worked with IIT Madras between 1966 and 2001. He has been solving design problems for Indian industry using FEA extensively for the last 45 years. Prof V. Ramamurti has guided 25 PhD's and has over 185 International Journal Publications. He has written 5 books, all of them published in India and abroad.



The speaker was introduced and the program was inaugurated by Mr. Aiyappan Ramamurti, SAEISS MC Member. Dr. V. Ramamurti illuminated the minds of the participants. Nearly 31 members from various industries and colleges participated in the program. Technical sessions handled by Dr. V. Ramamurthi were informative to our members. Mr. Khader Basha SAEISS MC Member thanked the speaker and presented a memento.

Lecture Meeting

Lecture Meeting on “Glimpse into Future Scenario Automotive Technologies” was organized by SAEINDIA Southern Section on 27th February 2016 (Saturday) at the Hotel Lemon Tree, Guindy. Cmde RB Verma (Retd), Former Executive Vice President, TAFE gave an enlightening lecture on the above topic. He joined Indian Navy on completion of degree. He did his Post Graduation in University College, London. During his 31 years tenure in the Navy he did various appointments in the Navy including 5 years teaching in IIT-Delhi handling Naval Technology. He specialized in Submarines.

Mr. T. R. Sathyanarayanan, Treasurer SAEISS welcomed and introduced the speaker to the professional members of SAEINDIA.

Cmde RB Verma (Retd) gave a wonderful lecture on the topic which was well received by our members. Mr. N. Balasubramanian, Chairman SAEISS shared his experience about the speaker and thanked him for his informative lecture and sharing his knowledge with SAEINDIA Members. Chairman SAEISS presented a memento to the speaker.

SAE TREK

SAE TREK was conducted at Muthayammal Engineering College on 27th and 28th February 2016. Mr. T. Kasiraja, SAEISS MC Member inaugurated the SAE Trek by lighting the kuthuvilaku. SAEINDIA Southern Section appreciated the College for hosting the prestigious Trek program in their college premises and Mr. T. Kasiraja, SAEISS MC Member presented memento to the host college.

After the inauguration of the Program, the Engineering Design process was handled by Mr. T. Kasiraja. Mr. T. Kasiraja explained the objective of the EDP to the participants. Student members were provided with kits and asked them to build toys. While building their toys they will learn about the Engineering Design Process. 34 student members were benefited by this program. Mr. T. Kasiraja distributed the Certificates to the participants. On 28th February 2016, Trekking was conducted at Yercaud hills. The participants enjoyed it well and it was very good experience to the student members.

Faculty Advisor Forum

SAEINDIA Southern Section Faculty Advisor Forum for Madurai division was conducted on 20th March 2016 at SSM Institute of Engineering & Technology, Dindigul. During the inauguration Dr. Palanisamy, Principal, SSMIET, Dr. Sivakumar, HOD, SSMIET, Mr. Rajesh, EC Member SAEISS, Mr. V. Swaminathan, Executive Coach & Facilitator, Paradigm Learning Solution and Mr. Hari Prasanth faculty SSMIET took the Dias. The program was inaugurated by Lighting of ‘KUTHU VILAKKU’. Mr. Rajesh, EC Member SAEISS felicitated the SSMIET for hosting with the memento.

Mr. V. Swaminathan, Executive Coach & Facilitator, Paradigm Learning Solution took 2 session for the faculty advisors. 14 faculties participated in FA Forum from Madurai Division. Mr. Rajesh, EC Member, SAEISS had discussion with faculty advisors about club activities and its improvement. Mr. Hariprasath, SSMIET thanked everyone for participating in the FA Forum and also thanked SAEINDIA Southern Section for hosting the event in their college.

Lecture Meeting

SAEINDIA Southern Section conducted Lecture Meeting on 26th March 2016, Saturday at Hotel Hablis, Grand Southern Trunk Road, Guindy, Chennai on the topic “An Overview of Advanced Driver Assistance Systems for commercial vehicles in India” by Ms. Gayathri

Sundar, Team Leader, ADAS, WABCO India Ltd.

Mr. T.R. Sathyanarayanan, Treasurer SAEISS welcomed and introduced the speaker to the professional members of SAEINDIA. Ms. Gayathri Sundar gave a wonderful lecture on the topic. Mr. S. Shanmugam Vice Chairman SAEISS, Mr. T.R. Sathyanarayanan and Mr. B. Kumar MC Member, SAEISS thanked speaker for her informative lecture and sharing her knowledge to the SAEINDIA Members and presented a memento to the speaker.

Inauguration of SAEINDIA Collegiate Club at Valliammai Engg. College, Chennai

The SAEINDIA collegiate club inaugural function was started with the invocation and lighting of Kutthuvilakku by Dr. B. Chidhambararajan, The Principal, Valliammai Engineering College and other guests at 2.30 p.m on 5th February 2016.

Dr. S. Thirugnanam, Professor and Head, Department of Mechanical Engineering, welcomed the gathering. Dr. M. Murugan, Vice Principal, Valliammai Engineering College briefed about our college and emphasized the importance of SAEINDIA collegiate club activities. Mr. C. Pradeep, DGM, Vehicle Integration, MRV and Chairman SAEINDIA SS Mahindra World City Division, praised the contribution of on SAEINDIA collegiate club in that college.

SAEINDIA for helping the student community in a right way in his Inaugural address. He also presented the 'Certificate of Recognition' to the Principal for the formation SAEINDIA collegiate club in our college.



Mr. R. Balasubramaniam, DGM, Program Management, MRV, Secretary, SAEINDIA SS Mahindra World City Division elaborated about the benefits of SAEINDIA membership for the student members in his special address. Finally, Dr. B. Gnana Sundara Jayaraja, Professor, Department of Mechanical Engineering, presented the vote of thanks. The student members were congratulated by the Chief guest and the inaugural function was followed by the distribution of membership cards to new student members. Mr. Sethupathi, Treasurer, Mahindra World City Division was also present during the Function.

Professional Membership Drive

MWC Team (Mr. C.Pradeep & Mr. Sethu) along with Mr. Raja (SAEISS Office) conducted Professional Membership Drive on 1st March 2016 at M/s Ford Motor Pvt Limited. @ RMZ Millenia Business Park, Chennai.

A Presentation was shared in the Team of Departmental Heads on the future Plans of SAEISS & SAEINDIA MWC Section.



FORD Team had shown interest & would be participating in Future Programs as per Team availability /Area of Importance.



Western Section

Two Days Workshop

A Two Day Workshop on "Advanced Exhaust After-Treatment & Simulation" was held on 3rd & 4th March, 2016 at ARAI, Pune.

The speakers for this workshop were as below:

- Mr. M. K. Chaudhari, Automotive Consultant Tata Motors Ltd., Pune.
- Mr. Prakash V. Sardesai, Chair, PDP Board SAEINDIA & Director, Sud-Chemie India Pvt. Ltd.

- Dr. Grigorious Koltsakis, Scientific Director, Exothermia
- Mr. Sandeepak Natu, Director, Trinity Simulations
- Mr. Vaibhav Gulakhe, Trinity Simulations
- Mr. Aatemsh Jain, Engineering, ARAI

Total 58 participants attended this workshop including 37 from industry and 19 students from different academies and 2 internal employees.



Topics covered during the Programme are as follows:

- Overview of After Treatment Devices
- Substrate and Canning Technology
- Three Way Catalytic Converter
- Diesel Oxidation Catalyst
- NOx Control Devices
- Exhaust After-treatment for Euro V & VI : A Simulation Perspective
- Modelling of Flow -through Catalyst (DOC, TWC, SCR)
- Modelling of Wall Flow Catalyst (DPF, GPF, SCR+DPF)
- Reaction Kinetics Modelling and Modelling of Auxiliary Components
- Coupling of Axisuite software with other CAE software's.

Two Days Workshop

A Two Day Workshop on "International Workshop on Automotive Noise Regulations in an India Context " was held on 10th & 11th March, 2016 at Ramee Grand, Pune.

The speakers for this workshop were as below:

- Mr. Hans-Martin Gerhard
- Mr. Douglas Moore

Total 23 participants attended this workshop including where were industry personal.

The topics covered under this workshop are as follows:

- Regulations and Test Methods
- Global noise regulation overview
- ISO: How it works, and how ISO contributes to regulation development.
- Interactive discussion on issues of importance for India
- Strategic approach to regulations; example from the EU and US.
- Comparing ECE R51.02 and R51.03: Why the change, what has changed, potential benefits for the environment, consideration for the manufacturers.
- Detailed review if ISO 362-1 (ECE R51.03) Emphasis on M1/N1, low powered vehicles, and M3/N3. Practical issues in performing the test; how to interpret test results to support vehicle development.
- Quiet Road Transport Vehicles: Regulatory situation and testing methods

- Horns: Regulatory situation and testing methods
- Interior Noise: Regulatory situation and testing methods
- Stationary Noise and In-Use control



The Indian Situation

- Overview of Indian Standards
- Effect of Road Surfaces
- Interactive discussion on the Indian situation: Roads, horn use, vehicle use, city planning.



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