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Oct 2014
IVHM
International
Workshop

Dec 2014
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Investigation and
Analysis By
Mr. Robert Kuhn

Dec 2014
Evaporative Emission
Control By
Dr. Sam Reddy

Jan 2015
Virtual SUPRA 2015

SAEINDIA Presidential Policy 2014

For the last decade, few trends have captured the world's attention as much as the so-called rise of the rest, the spectacular economic /political /intellectual emergence, SAEINDIA is all set to devour the power of oneness .Two days of strenuous efforts and untiring buoyancy of the new MC team to propel SAEINDIA to the next orbit has surely been set at convergence of the Presidential Policies deployment. The defined major tasks were analysed and debated about 30 days before the convergence by the identified cross functional teams and operating teams to set the course. The Activity was followed as part of Business Planning to bring in alignment, clarity, participation of all concerned and thereby facilitate achievement of stretched targets in a smart, systematic and professional manner.

20th September 2014 and 21st September 2014,LAVASA

While commending the dedicated efforts of the past Presidents, Managing Committees, other senior leaders and members, volunteers and staff for their contribution in the evolution of SAEINDIA as a respected professional society in the country, President Dr. Aravind Bharadwaj explained the Policies considered as relevant, prioritized to the present time frame and are essentially identified as areas of Improvement. Normal focus areas for any society being Sustenance

through member engagement, the following are the prioritized areas for improvement.

1. Enhance Relevance of Activities to the members
2. Reduce Non Value adding activities
3. Increasing Member Engagement
4. Improve creation of Knowledge
5. Develop SLAs among SAEINDIA, Sections and Divisions

The importance of deploying these five nebulous policies through strong, inclusive and innovative deployment process to arrive at executable actions was explained by Dr. Aravind and Mr. Selvamani.

Based on the same, cross functional teams were formed headed by leaders of SAEINDIA to write the policy stories on the above prioritized areas. In parallel execution stories were prepared by the operating boards and sections.

All the stakeholders ensured, through proper deliberations and discussions, the alignment between the Execution Stories and the Policy Stories prepared by the CFTs based on the identified priority areas of focus and formulated the Plan. All the senior members of the CFTs, Managing Committee, Operating Boards, Section Committees and Staff pledged to work on the formulated Action Plan.

SAEINDIA**SAEINDIA Managing Committee Members 2014 - 2016.**

Dr. Aravind S. Bharadwaj
President

Mr. Shrikant R. Marathe
Immediate Past President

Dr. R K Malhotra
Sr. Vice President & Chair, Finance Board

Dr. Bala Bharadvaj
Vice President & Chair, Aerospace Board

Mr. I V Rao
Chair, Meetings & Expo Board

Dr. Venkat Srinivas
Secretary & Vice Chair, Development Board

Mr. C V Raman
Vice Chair, Sections Board

Mr. Srinivas. V
Membership

Dr. Arun Jaura
Chair, Automotive Board

Dr. K C Vora
Vice President & Chair, Sections Board

Mr. Prakash Sardesai
Chair, PDP Board

Mr. Sanjay Deshpande
Chair, Membership Board

Mr. Asit Barma
Chair, Publications Board

Mr. Vijayan G
Treasurer & Vice Chair, Finance Board

Mr. Devendra Bahirat
Chair, Off-Highway Board

Dr. S Thrimalini
Chair, EE Board

Mr. B Bhanot
Chair, Development Board

Mr. P K Banerjee
Jt. Secretary, Vice Chair, EEB

Dr. Arunkumar Sampath
Vice Chair, Meetings & Expo Board

Mr. M Kannan
Vice Chair, PDP Board

Mr. Arun Sivasubramaniyam
Vice Chair, Publications Board

Representing SAE International

Dr. David. L. Schutt

Mr. Murli M. Iyer

SAEINDIA**SAE**
INTERNATIONAL

**Seminar
on
Engine Failure Investigation
and Analysis**

We are pleased to announce an International Lecture on **Engine Failure Investigation and Analysis** **Mr. Robert Kuhn** Managing Engineer for JP Research - an acknowledged expert on the subject with years of experience and demonstrated expertise.

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SAEINDIA and PMI INDIA Conference on

PEOPLE HIGH WITH PROJECT MANAGEMENT

SAEINDIA Aerospace Board and PMI Event held on 24th July 2014 at Bangalore.

The event was inaugurated by Dr. Saraswath, Mr. Daniel M Hancock, Mr. Murali Iyer, Dr. Bala Bhardwaj, Mr. Jacob Varghese, Mr. Vasanth Kini, Mr. Munirathnam Javaji and Mr. Damodaran.



The welcome address was given by Mr. Munirathnam J, SAEINDIA Aerospace Board Member and CEO of Javaji M Consulting Pvt Ltd. He welcomed the SAE President, Chief Guest, Speakers, Panellists and delegates. He then highlighted the importance of the event being held in Bangalore – the hub of Indian Aerospace and Project Management Institute activities.

Mr. Jacob Varghese – Head of IT, Aero & Defence market has set the context of the conference for the benefit of the audience, guests and speakers. He highlighted the importance of project management and implications of the same amongst Fortune 500 companies in the last few years, and how the digital empowered customers are embracing project management methodologies to improve their performance. He highlighted that projects and programme management need to be agile in focusing on people, process and outcome. He also highlighted the importance of executive sponsorship in increasing the performance projects in every organisation following which he presented successful examples of strong implementation of Project Management principles across the globe to highlight its importance.



The Inaugural address was later given by – Mr. Dannie M Hancock, President of SAE International. He explained the role of SAE in the international arena related to technology, research and spread of scientific approach among engineering communities, colleges and school students. He highlighted his role in SAE over the last 40 years in various initiatives such as Baja, AWIM etc and how SAE is able to implement scientific temperament amongst professionals and student community.

Mr. Hancock took the opportunity to share his rich experience in technology related to the automotive industry. He explained how the economy and technology is challenging the automotive industry and especially the power train system. He gave lots of insights into energy consumptions and its impact in the automotive industry across the globe and explained to the audience the latest trends in fuel cell technology, hybrid, electric, hydrogen vehicles, etc. In addition to this he highlighted the demographic statistics on personal transportation trends globally and spoke about “connected” vehicles. He explained the commonality between the aerospace and the automotive industry in the areas of “connected” vehicles.

The Chief Guest address given by Dr. Vijay Kumar Saraswat, Former Secretary – Defence (R&D), Ministry of Defence, SA to RM & Director General, DRDO.

The Keynote address was given by Dr. Bala K Bhardwaj, Chairman of SAEINDIA Aerospace Board & Leader of Engineering and Technology, Boeing India.

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Moderator: Mr. Damodaran Subramanian, Senior VP,
Safran Engineering Services.



Panellists: Dr. Kota Harinarayana, Dr. DS Kothari DRDO Chair, ADA; Mr. Shyam Chetty, Director, CSIR- NAL; Mr. Ravishankar Mysore, VP, Engineering for Global Engg Cener, UTAS. Following the moderator's initiation on a new approach for project management and program management, the panel members discussed on the following key points and expressed their views based on their rich experiences.

Collaborate to excel in Project Management by Mr. Murali Santhanam, President, PMI Bangalore Chapter

Moderator: Mr. Vasanth Kini, MD, Titanium Industries.

Panellists: Mr. Sridhara Ramachandran, Vice President & GM, Indo-US MIM Tec Pvt Ltd; Mr. Naresh Palta, CEO (A&D), Maini Group; Ms. Stanis Jovita, GM-Engg Ou, Cyient.

Keynote Address: Dr. B. N. Suresh, Vikram Sarabhai distinguished professor at ISRO HQ.

Mr. Parvez , SAEINDIA Southern Section Member, PMI Chennai Chapter MC member steered the entire program from the beginning with his excellent abilities, oratory skills and wit as Master of Ceremony.

Blue Ribbon CEO Conclave - BUSINESS PRACTICES FOR NEXT GENERATION MOBILITY

In India, like many other emerging nations, the projected growth in urban development is coupled with the challenge of providing and managing movement of people and goods in inner cities. For businesses, this is a huge opportunity to integrate and deploy smart solutions to ease congestion, enhance safety and ensure efficient energy management for CO2 reduction. A holistic deployment will require agility and a mindset change to proactively review the current state of the union. With the Prime Minister of India's focus on Smart Cities, next generation mobility and business practices become even more prudent for the mobility fraternity.

With this backdrop, the Automotive Board of SAEINDIA conducted the first edition of Blue Ribbon CEO Conclave in Chennai on July 25th from 6 to 9PM at the Taj Coromandel during the visit of Dan Hancock, President of SAE International. Murli Iyer, International Advisor, SAE International accompanied the President. At this first ever Conclave, twenty CEOs and heads of Business from OEMs and vendor partners were present to show their continued support to SAEINDIA and share their thoughts and experiences about "Business Practices for Next Generation Mobility".

The discussion was not limited to, but covered four major aspects: Doing Business Right - Ethics and Values, Diversity, Talent Development; Leveraging Innovation and Business Practices - PPP; Socio-economic Partnerships for Holistic Dan Hancock - "Collaborative Innovation is a lever that will catalyze next generation business practices. Nurturing student initiatives along with supporting resources will build the appropriate pipe line for injecting fresh ideas in the mobility fraternity"

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Nirmal Shani -"Sensitivity to regional markets will create a snowballing affect for the growth of global players in next generation mobility practices. Standards and practices need to be rationalized so that stake holders are aligned for a major mindset change"

The informal interactions after the formal session, revolved around alignment of stakeholders, radical innovation, socio-economic opportunities, agility in decision making and analysis at the grassroots level. How becoming global was important but being technologically savvy and innovative was even more critical as we embark on next generation sustainable mobility.

Development, and Integrating Smart Mobility for Masses - Inclusive Strategy (Urban Development, Energy Providers and Policy Makers).

The conclave began with a welcome address by Dr. Arun Jaura, SAEINDIA Automotive Board Chairman followed by the Opening address by Dr. Aravind Bharadwaj, President, SAEINDIA.



Dr. AJ"Holistic deployment for next generation mobility will require agility, collaborative style of decision making, and a mindset change to proactively leverage innovative cross industry practices" stated Dr.Arun Jaura in his Introduction.

Dr. AB - "Business practices for next generation mobility will need a paradigm shift in building an innovation culture. Going forward, talent pipeline and ethics & values will form a stronger business foundation for faster growth" stated Dr.Aravind Bharadwaj in his welcome address.

SB -"Radical innovation and disruptive thinking is key to the success of next generation mobility business practices. The sensitivity of customer needs across regions will help reverse innovation growth"

Suman Bose, MD and CEO, Siemens Industry Software India, talked about the need of a paradigm shift through disruptive thinking and radical innovation. He shared anecdotes of his teams' efforts, the work being done in India and other regions on connected vehicles, and few other examples. How radical innovation and the way of conducting business has changed the play field for Siemens across India and the world, of course. He talked about technology trends since one size does not fit all, and various levers Siemens uses to be ahead of the curve in next generation mobility.

Dr M"Holistic policies with industry blue prints and stronger partnerships with academia will streamline growth of next generation mobility industry. Emphasis on unique solutions in different markets will be even more prudent and need of the hour"

Dr. Mahadevan, Board Member of India Pistons Limited, shared his thoughts about a holistic approach and participation of stake holders, how setting the policy framework was important to lay a blue print for the industry and consumers of mobility solutions. The sustainability of mobility solutions requires more than knee jerk reactions of technology demonstrations. There was need for more research partnerships with academia and government R&D labs.

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SUPRA SAEINDIA 2015 APPLYING THE POWER OF INGENUITY

SUPRA SAEINDIA 2014 is an exciting design competition conceived to inculcate and harness talent, to hone the skill of engineering students from all over India. Students from various colleges form teams and create a virtual design, build a prototype and test their own formula type race car. The project fuels the exuberance of the youth by providing teams a platform to taste their mettle, giving them a pragmatic exposure to real world challenges as faced in the industry. The event happened between 18th to 20th July 2014 at MMRT Chennai.



According to Dr. S. Thirumalini, Convener, SUPRA SAEINDIA 2014, “3 day event at MMRT saw experts analyzing the engineering design report, marketing presentation, cost analysis, acceleration, fuel economy, skid pad test and endurance by the teams. These events were judged by a panel of eminent experts from the automotive industry. The students are given one year’s time to prepare their prototype. This year 85 teams from various colleges all over India are participated in the competition.” She further added, “In this process, students learn to develop a design, understand the process of new product development, industrial procurement, manufacturing, assembly and prototyping. The selected

prototypes were then tested in standard test conditions to measure parameters like maneuverability, technological innovation, endurance, hill-climb and stability. The objective of this event is to bring out the latent talent of students so that it fulfills the Automotive Mission Plan (AMP 2016), the focus to make India an International Automotive Hub.



Mr. Asit K Barma, Chairman Media, Communications, Publications Board, SAEINDIA said, “Participants in the competition will need to drive their own cars, which they have conceived, designed and fabricated.

The specification of the car frame and engine are restricted so that the imagination, creativity and knowledge of the students are challenged. Students realize their talent though such an experience, making those proven candidates for the future as technocrats, entrepreneurs, designers, innovators and leaders.”



SAEINDIA



The event is sponsored by **Maruti Suzuki India Limited** as the Title Sponsor and supported by **Rajalakshmi Group of Institutions, Chennai**. Other sponsors include **Continental Automotive, Bharat Petroleum Corporation Ltd., BOSCH, ALTAIR, ANSYS, EATON, Indian Oil Corporation Ltd., ARAI, VictoraTools** and **Roots**.



Seminar on "Engine Failure Investigation and Analysis" - Mr. Robert Kuhn

on

10th & 11th Nov 2014 in Chennai and 13th & 14th Nov 2014 in Pune,

We are pleased to inform you that SAEINDIA along with SAE International would be organizing a seminar on "Engine Failure Investigation and Analysis" by **Mr. Robert Kuhn**, an authentic expert with years of experience and demonstrated expertise in the subject. He is also part of the eminent panel of SAE in the International Lecture circuit.

Please also indicate choice of location either Chennai or Pune to block the seats accordingly.

BAJA SAEINDIA

BAJA SAEINDIA was a dream come true under the mentorship of Dr. Pawan Goenka, who supported the idea, brought together a capable team and initiated the event at the land facility from NATRIP (National Automotive Testing and R&D Infrastructure Project – A Government of India Project), site at Pithampur. The event witnessed its successful completion every year since 2007. The next BAJA SAEINDIA Event will be conducted in **Feb 2015**. The participation in the event is increasing year by year covering almost every university all over India. It starts with 27 colleges in 2007 and now its 325 colleges from all states which is a huge amount for the technical event. Also, this year it will be a international event which is going to be more competitive for the Indian Students. 122 teams got selected for the main event after the Virtual round of BAJA SAEINDIA which happened in August in GTU, Ahmedabad. This includes 12 teams of eBAJA, which is a new initiative by the committee. Teams will burn the tracks with their technicalities by using the electric motor and battery. Also the tracks are transformed to higher level as that of International. Through each passing year, BAJA SAEINDIA has seen an exponential growth with more than 2500 participants. BAJA is just not a competition anymore; it is a revolution growing day by day, where only the fittest will survive.

SAEINDIA

SYMPOSIUM ON INTERNATIONAL AUTOMOTIVE TECHNOLOGY (SIAT 2015) 21-24 January 2015, ARAI, Pune

In today's automotive world, we need to adopt eco-friendly technologies, enhance safety and ensure connectivity of vehicles. This is all possible if we innovate and collaborate to shape our products. The use of Information and Communication Technology (ICT) have forced developments speed to unprecedented levels, and our customer's demands continue to rise as they remain connected to readily available information and grow increasingly knowledgeable.

SIAT 2015, assembles the best talent in the Automotive Industry, who will join hands to collaborate and deliberate the current challenges to promote the multitude of opportunities for a successful automotive industry.

The Symposium on International Automotive Technology (SIAT) is a widely covered biennial international event organized by The Automotive Research Association of India (ARAI). SIAT serves as an important forum for sharing ideas and knowledge concerning promising areas of Automotive Engineering and Technology, wherein eminent experts and authors present Keynote and Technical Papers in multiple sessions.

The coming edition of SIAT i.e., SIAT 2015, 14th in the series is being organized by ARAI in association with SAEINDIA, NATRiP and SAE International at its campus in Pune, India, from 21 to 24 January 2015.

Approximately 200 technical papers including 40 keynote on various subjects will be presented during the symposium. SIAT will focus on important areas like Advanced Powertrain Technologies, Emissions, Noise, Vibration & Harshness (NVH), Alternate Fuels, Virtual Prototyping, Virtual Testing, Safety and Crash Worthiness, Automotive

Electronics, Structural Dynamics, Vehicle Engineering and Automotive Materials.

Symposium proceedings will be published along with a Technical Reference Bulletin containing technical articles, case studies and product information. There would be panel discussions and student poster presentation competition too. An exposition SIAT EXPO 2015 will also be organized showcase Automotive Products, Equipment's, Services and Technology Solutions in around 200 stalls. There would be "Technology Theatre" as a special event on 24th January 2015 where eminent companies including ARAI would give presentations on latest state of the art technology.

This Announcement invites delegates for online registration. The first 200 delegate registrations received with payment on will avail SIAT Merchandise.

SIAT 2015 21-23 January 2015		SIAT EXPO 2015 21-24 January 2015
Symposium on International Automotive Technology		
<small>Dr. K.C. Vora Convener, SIAT 2015 Email : siat2015@saeraindia.com Tel. : +91-20-30231040. Fax : +91-99 755 81049</small>	<small>Venue : ARAI, Pune, India Fax : +91-20-30231104 Website: www.araindia.com</small>	<small>H.A. Nakhawa Coordinator, SIAT-EXPO 2015 Email : satexpo2015@saeraindia.com Tel. : +91-20-30231275. Fax : +91-98 688 8879</small>

SAEINDIA SECTION NEWS

BANGALORE SECTION

Organized by IACC, Associate partner TIE & SAEINDIA Bangalore section - Hubli.

A successful event organized by IACC, TIE & SAEINDIA Bangalore section on **"Building world class capability in manufacturing"** on - 06/06/2014. Around 2.30pm to 6.00pm in Hubli Deshpande centre BVB college campus.



Smt. K Rathna prabha (IAS)

Additional chief secretary, Commerce and Industry Department, Govt of Karnataka. **Sri M. Mahaeshwar rao. (IAS)** Commissioner of industrial development & Director of industries and commerce, Govt of Karnataka.

Followed by Interactive session with various industries on how to make North Karnataka region to be a global manufacturing Hub in upcoming years.

Seminar on SAE & Activities to be done in SAEINDIA collegiate club

SAEINDIA Bangalore section conducted students and faculty interactive session in Christ University i.e. on 01 August-2014. Around 11:00Am.

Key areas discussed on:

1. What is SAE and its benefits.
2. How to form collegiate club.

3. Responsibilities of office bearers in SAEINDIA collegiate club.

4. Types of Competition student's community can participate.



How to start with basic automotive projects:

Proceeding with basic design procedures types of analysis, innovation, DFMEA, type of suspension to be selected, choosing specific task to accomplish projects & Literature survey.

Inaugural of SAEINDIA collegiate club

1. JSSATE SAEINDIA COLLEGIATE CLUB was inaugurated on 21st Aug 2014.

Followed by technical talk from Mr. Girish on Power trains & Mr. Kumar on Vehicle dynamics.

Key areas discussed on:

1. Continental history video.
2. Power trains systems.
3. Discussed on OEM.
4. Artificial intelligence in vehicles.
5. Brief session on antilock braking system and safety.
6. Electronic stability control, highlights on Aerodynamic specific, Geometry specifics, Mass specific, Motion specific, Tire specific & Road specific.
7. Questions from students community.

2.

SJBIT SAEINDIA COLLEGIATE CLUB was inaugurated on 03RD September 2014 by Mr. Muzakkir.

Key areas discussed on:

1. How to start up with project.
2. Responsibility of team members & work distribution.
3. Rule book & key points to focus on.
4. Types of design approach analysis test to be carried out.
5. Considering human ergonomics postures in design.
6. Discussion on engine, roll cage material, suspension factors to be considered, DFMEA & DVP.

NORTHERN SECTION

SAE International Presidential Team

SAE International Presidential Visit was organised by G B Pant College of Engineering, Delhi and was hosted at IIIT-D on 30th July 2014. AWIM students, along with the collegiate club members participated in the Presidential team visit comprising of Dr. Dan Hancock, President- SAE International and Mr. Murli Iyer, Executive Global Affairs. The event commenced by a lamp lighting ceremony followed by a welcome speech by Prof. Maji, Principal, G B Pant College of Engineering and Vice Chair-Technical, SAENIS, who extended a warm welcome to all the dignitaries of SAE International, SAENIS fraternity and the student community. Dr. Tapan Sahoo, Secretary, SAENIS, gave a presentation highlighting the different activities and achievements of SAENIS over the last year. Mr. Alok Jaitley, Vice Chairman- Student Activities, SAENIS introduced the winning teams of AWIM 2013.

The students gave a demonstration of their Jet Toy and Skimmer and were appreciated by one and all, and were felicitated by Dr. Dan Hancock with awards and cash prize. Dr. Dan Hancock appreciated the efforts put in by the students and encouraged participation in more activities.



Mr. Murli Iyer spoke about the evolving role of SAENIS in the promotion of SAEINDIA activities. The various SAE collegiate clubs gave presentations and briefed about the activities conducted by their respective collegiate clubs. Colleges were awarded with mementos for their presentations and contribution. The session concluded with an open interaction wherein our guests answered the doubts and questions of the participants.

Economics of Fuel : Complete Vehicle

SAENIS organized a one day seminar in association with AVL on "Economics of Fuel : Complete Vehicle - is the Key" on 18th July, 2014, at Hotel Leela Ambience, Gurgaon. The seminar focused on Engine, combustion, emission measurement and testing, fuel economy improvement and related areas. The event commenced with a welcome address by Mr. Anoop Bhat (General Manager, Powertrain Design and Development, MSIL).



The seminar focussed on the future emission trends in India and Europe and how better fuel economy can be achieved through calibration. They also discussed about future of hybrid in India. Mr. K.Koeck, Business Development Manager from AVL spoke about uncertainty in measurement and accuracy for achieving trustable measurement results and explained it through an example on fuel consumption. There was also a Panel discussion towards the end of the session in which the development areas considering fuel economy, expectations about infrastructure improvements and impact of new technologies over the next years in India were discussed. The seminar was attended by around 50 people from Maruti, Corning India, Ashok Leyland, Shriram Pistons & Rings Ltd, IOCL, iCAT and students from different colleges. The event concluded with a note of thanks by the organizers and mementos were distributed by Mr. Anup Kacker. At the end, vote of thanks was delivered by Mr. I V Rao, Past Chairman SAE Northern India Section. He summarized the event and thanked the contributors who had contributed for the Awards and for the Function event.

SAENIS AWIM MTTP 2014

A World in Motion (AWIM) program is an international event of SAE, which amalgamates teachers, students from different technical institutes and industry volunteers in one platform for exploring physical science by addressing the essential concepts of Science, Technology, Engineering, Mathematics (STEM) among the school children. The program is structured in a seasoned manner so as to develop scrutiny and impel the future generation to pursue the careers in science, technology, engineering and mathematics by bringing their daily experiences into AWIM classroom. The curriculum of the program incorporates a workshop for teachers, students and industry volunteers- the Master Teacher Training Program (MTTP).

On 23rd August 2014, SAENIS started the journey of AWIM 2014 by successfully conducting the Master Teacher Training Program (MTTP) at Jamia Millia Islamia University for Delhi-NCR Region. The event commenced with address by Mr. Alok Jaitley, Vice Chairman- Student Activities, SAENIS. He shared his experience in Efficycle as Convenor and with extreme exuberance motivated the teachers and volunteers to take this edition of the AWIM program to great heights. It was pursued by the galvanizing words of Mr. Rakesh Sood, ex Convenor, AWIM, who cherished the hardwork and dedication of the teachers and volunteers and motivated them. Mr. Deepak Panda, Co- Convenor, AWIM, also mentioned the opportunity that AWIM provides to spurt the huge

potential in students. Prof. M M Hasan, Faculty Advisor, SAE Chapter, Jamia Milia Islamia, also expressed his continual support to SAE activities. Around 31 schools from Delhi, Gurgaon, Faridabad and same number of student volunteers from IGDTUW, Jamia University and DTU along with 4 industry volunteers participated in the Jet Toy this year in comparison with 28 schools which had participated last year. For Skimmer, this year's participation stood at 29 in comparison with 9 schools which had participated last year affirming the prospects of AWIM.

The training sessions for Jet Toy and Skimmer were initiated with a brief introduction about STEM. Following the briefing, the respective challenges, their motto and significance for today's budding intellectuals was explained to the trainers after which the fabrication of Jet Toy and Skimmer was finally led off by the respective trainers. Innovation was at its peak during fabrication and various cosmic suggestions and scientific tips were overflowed by the trainers.

Several sail shapes and areas of respective skimmers were tested for various categories i.e maximum distance, accuracy, directional stability, weight carrying capacity and more. Conclusions were drawn upon the observations with different designs & graphs plotted. Jet Toy was experimented with different size nozzles and balloon inflation diameters for categories like maximum time, maximum speed, maximum distance, accuracy and weight carrying ability.



The program was concluded with the declaration of SAENIS Delhi-NCR AWIM Regional Olympics, which is going to be held at DPS Maruti Kunj, Gurgaon on 1st November, 2014.

Collegiate Club Inauguration & Technical Lectures

On 28th-29th August 2014, the SAEINDIA Collegiate Clubs of GLA University, Mathura and Hindustan College of Science and Technology, Mathura (HCST) were inaugurated by Mr. Anup Kacker, Executive Director, SAENIS. The inauguration was followed by Technical lecture series in HCST, GLA University and Delhi college of Technology and Management, Palwal. In the inaugural speech of Mr. Kacker, a brief overview of SAEINDIA's mission, goal, governing body and detailed information about its functioning was given. Mr. Kacker motivated the students and faculty for participation in SAE activities and competitions like BAJA, SUPRA and EFFICYCLE. He also mentioned the importance of collegiate clubs in technical institutes and activities that can be carried out in these clubs. He emphasized on organizing various workshops and lectures by the students under SAE club activity. Also present in the inauguration ceremony were Dr. R. K. Upadhyay (Director - HCST),

Dr. P.S. Joshan (Dean Academics), Dr. Sandeep Agarwal (Dean-Student Welfare) and Shri Y.C. Dhote (HOD Automobile Engineering), Mr. Chauhan (Vice Chancellor), Prof. Krishna Kant (Director), Dr. Piyush Singhal (HOD) along with the student body and faculty members of Automobile and Mechanical Engineering stream of the respective colleges.



The Inauguration ceremony was followed by Technical lecture on "NVH-A silent cabin" by Mr. Sameer Srivastava and Mr. Deepak Mahajan, MSIL. The seminar focussed on the basics of noise, vibration and harshness, its cause, effects and control.

SAENIS Student Convention

On 13th September 2014, SAENIS in association with MNIT Jaipur organized its first student convention in Rajasthan – a new beginning, particularly for this region. Over 841 students from sixteen colleges and Universities of MNIT Jaipur, SKIT Jaipur, JECRC University Jaipur, Anand International Engineering College Jaipur, Poornima College of Engineering, Jaipur, JECRC, Jaipur, JECRC-UDML, Jaipur, GEC, Ajmer, IIT Jodhpur, RIET Jaipur, LNMNIT, VIT, Manipal University, Jaipur, MLVTEC Bhilwara, PITS Sikar, Rajdhani College of Engineering, Jaipur participated in the Convention.



The inaugural function was attended by Chief Guest Mr B L Soni, IPS Additional DG of Police and Director Rajasthan Police Academy, Guest of Honor Mr. Sandeep Raina (Vice Chairman Student Activities - SAENIS and General Manager MSIL), Mr. Rakesh Sood (Managing Director-TRIM India Ltd), Director MNIT, Dr S.S.V. Ram Kumar (General Manager-Indian Oil and Mr Reji Mathai, Governing Board Member of SAENIS and CRM, Indian Oil R&D Centre, Chairman of Convention, Prof. Shyam Lal Soni, Chairman and Convenor of Organizing Committee, Co-Conveners & Organizer of Convention, amongst other dignitaries from respective participating Colleges. Convention was inaugurated by Mr. B L Soni. In his inaugural speech, Chief Guest Mr. B L Soni stated that such conventions are important from the point of view of development of students as well as faculty. Mr. Sandeep Raina gave a broad overview of the Auto Sector outlining the challenges likely to be faced and told students that this is the platform where student can explore their creativity and ideas with other professionals and students for the benefit of society and the automotive sectors. Mr. Anup Kacker, Executive Director- SAENIS briefed the students about various activities of SAE India and SAENIS and benefits of being an SAE member.

WESTREN SECTION

Futuristic Technologies and Orbit Shifting Business Strategies

One day Workshop on “**Futuristic Technologies and Orbit Shifting Business Strategies**” was jointly organized by SAEINDIA Off- Highway & SAEINDIA Western Section on Tuesday 22nd July 2014 at ARAI, Pune.

Objective is to enhance and leverage from emerging Market Opportunities through Futuristic Technology, Effective Collaboration, Disruptive and Innovative Business Models. When Indian Economy is poised to take off to the next level in the following decade, Off-Highway Industry needs to work on a Paradigm Shift in terms of Technology Development and new Business Models for greater benefits to the stake holders in the Value Chain and thrust on increased contribution to the GDP from Agriculture and Infrastructure Industry.

Workshop witnessed an overwhelming response from participation of engineers, scholars & Students in the discipline of engineering. Around 250 delegates was attended the workshop.

The event commenced with Lighting of Lamp, where the honorable dignitaries lighted the lamp. The rest of the program was compared by Ms. Kavitha Shinde and Mr. Amar Variawa.

Workshop started with inaugural speech by Mr. Daniel M. Hancock, President SAE International. Workshop overview was given by Mr. Devendra Bahirat, Business Manager India & China, John Deere Electronic Solution and Chairmen of SAEINDIA Off-Highway Board.

After workshop overview, Mr. Shrikant Marathe, Past President SAEINDIA, Past Chairman SAEINDIA Western Section and former Director of ARAI, was felicitated by Mr. Hancock for his contribution toward SAEINDIA.



Technical session was started with first presentation by Mr. Ritu Raj (Business Director, John Deere India Pvt Ltd) on Technologies of Tomorrow for Ag Mechanization. Third presentation by Mr. Mukul Varshney, (Director, Corporate Affairs, John Deere India) on Role of Government Policies. Fourth presentation was presented by Mr. Narayanan Ramanathan (Vice President & Global Head Connected Engineering & Analytics, Tech Mahindra) and Ms. Sunila Muley (System Lead, Electrical & Electronics, Mahindra Construction Equipment Ltd) on Connected Vehicle Programs. Fifth presentation by Mr. Madhan Thiruvengkatchalam (Technical Sales Senior Director, PTC) on Forces of Transformation in Manufacturing Sector.

Sixth presentation was presented by Mr. Anil Ghegade (Engineering Manager, Piston Power & Control, Eaton India Engineering Centre) on Technological Trend in Hydraulics Domain.

Seventh presentation by Mr. Kamalakannan Rajagopalan (Director EBU Engineering Cummins) on Collaboration Opportunities Eight presentations by Mr. Jasmeet Singh (Head, Defence Business and Customer Experience Programs, JCB India Limited) on Business Model of Future. Last Technical presentation was presented by Dr. Thirumalini (Head of Department, Amruta Vishwa Vidyapeetham & Chairperson, SAEINDIA Engineering Education Board) on Role of Academia.



Vidyapeetham) and Mr. Amar Variawa (GM, John Deere) (Moderator). It was very nice interactive question answer session; lots of questions arise during panel discussion. Towards the end, there was three lucky drawn prizes for delegates. Dr. K. C. Vora proposed vote of thanks on behalf of SAEINDIA Off-Highway Board, SAEINDIA WS and ARAI.



The next and last session was Panel Discussion Session, were panelist are Mr. Satish Nadiger (MD & CEO, John Deere), Dr. Sudhakar Potukuchi (Vice President, Eaton), Dr. Anuradda Ganesh (Director Product Engineering, Cummins) Mr. P. A. Venkateswaran (VP R&D, PTC) Dr K C Vora (Sr. DD, ARAI) Dr. S. Thirumalini (HOD, Amruta Vishwa Vidyapeetham) and Mr. Amar Variawa (GM, John Deere) (Moderator). The next and last session was Panel Discussion Session, were panelist are Mr. Satish Nadiger (MD & CEO, John Deere), Dr. Sudhakar Potukuchi (Vice President, Eaton), Dr. Anuradda Ganesh (Director Product Engineering, Cummins) Mr. P. A. Venkateswaran (VP R&D, PTC) Dr K C Vora (Sr. DD, ARAI) Dr. S. Thirumalini (HOD, Amruta Vishwa



Emission & Our Environment

In workshop Series, a 1-Day workshop on Emission & Our Environment was jointly organized by ARAI and SAEINDIA Western Section at ARAI, Pune on 28th August 2014.

Dr. Suresh S Iyer: Research Associate in the Department of Mechanical Engineering at Pennsylvania State University, USA. **Dr. K. C. Vora:** Sr. Dy. Director & Head of Academy at ARAI, Pune.

Total 94 participants, including 4 from various industries, 1 from ARAI and 89 ARAI Academy students attended this workshop (brochure of the programme is attached).



The feedbacks from the participants are consolidated and the same is attached. The overall average rating by the participants of this workshop is 8.6 out of 10. The average rating given by speaker is 9.9 out of 10.

Material Testing using a Digital Image Correlation

In workshop Series, a 1-Day workshop on Material Testing using a Digital Image Correlation jointly organized by ARAI, SAEINDIA Western Section and Lavisoin at ARAI, Pune on 12th August 2014.

Dr. Robert Littlewood: Applications Engineer at LaVision, Singapore. **Mr. Arun Raj:** Regional Sales & Support Manager – India, LaVision Singapore

Total 12 participants attended this workshop. Various topics were covered during the programme (brochure of the programme is attached).

The feedbacks from the participants are consolidated and the same is attached.

Advance Driver Assistance & Active Safety

In workshop Series, a 1-Day workshop on Advance Driver Assistance & Active Safety jointly organized by ARAI, SAEINDIA Western Section at ARAI, Pune on 12th August 2014.

The speakers for this workshop were as below:

- **Mr. A. V. Mannikar:** Sr. Dy. Director & Head, Safety & Homologation Laboratory and Passive Safety Laboratory, ARAI, Pune.
- **Mr. Jitendra Shah:** Research Engineer at Ford Research Centre Aachen GmbH Germany.
- **Mr. Pratyush Khare:** Head of Integrated safety center at TATA Motors, Pune.

Total 20 participants attended this workshop. Various topics were covered during the programme (brochure of the programme is attached).



3-Day Workshop on 'CAE for Powertrain Application'

In workshop Series, a 3-Day workshop on 'CAE for Powertrain Application' jointly organized by ARAI, SAEINDIA Western Section and Ansys was held at ARAI, Pune from 7th to 9th July 2014.

The speakers for this workshop were as below:

- **Dr. S. Manivasagam,** Chief Delivery Officer for Onward Technologies Limited, Pune

- **Mr. Sanjeev Bedekar,** TSFE (Thermal Science Functional Excellence) leader at Cummins Research and Technology India (CRTI), Pune.
- **Mr. M. A. Patwardhan:** Dy. General Manager at Computer Aided Engineering Laboratory at ARAI, Pune.
- **Mr. Sandeep Shetty:** Sr. Technology Specialist at ANSYS India.
- **Mr. Santosh Kotalgi:** Senior Technology Specialist in the Support & Services organization at ANSYS FLUENT India Pvt Ltd.
- **Mr. Priyanka Jain:** He is Sr. Technology Specialist in Support & Services organization at ANSYS FLUENT India Pvt Ltd.
- **Mr. Jayesh Muthyal:** He is Senior Technology Specialist in the Support & Services organization at ANSYS FLUENT India Pvt Ltd.
- **Mr. Sourabh Shrivastava:** Technology Specialist, at ANSYS India.
- **Mr. Mahendra Joshi:** Technology Specialist at ANSYS India.
- **Mr. Rahul Phadke:** Technology Specialist with ANSYS India.
- **Mr. Sampat Kumar:** Deputy Manager, PTE, ARAI.

Total 26 participants, including 20 from various industries, 6 academia students attended this workshop.

Various topics were covered during the workshop (brochure of the workshop is attached).



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