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Upcoming Major Events

April 2013

International Lecture
on "AUTOMOTIVE
HEAT TRANSFER" by
Dr. Raj Ranganathan,
@ Chennai & Pune.

June 2013

OFF-Highway SINE
Program @ Pune

June 2013

International Lecture
on "Sound Package
Materials for Vehicle
Noise Control" by Dr.
Paranb Saha @
Chennai & Pune.

Dec 2013

SAEINDIA
INTERNATIONAL
MOBILITY
CONFERENCE &
COMMERCIAL
VEHICLE Engineering
Congress - 2013 @
CTC Chennai.

Shrikant R. Marathe

President, SAEINDIA

Onward March of SAEINDIA crossing 50,000 members

I have great pleasure in extending warm greetings to all of you as we commence the new financial year for SAEINDIA and for most of the organizations in the country.

I must share with joy that we had crossed a total membership of 50,000plus as on 1st March 2013 with close to 4000 Professional Members, indicating our onward march towards our stated objectives. It gives me confidence that we should be in a position to achieve 6000 + professional members before close of March2014 putting SAEINDIA on a strong foundation to grow leaps and bounds in future.

SIAT 2013 organized by A.R.A.I., where SAEINDIA was a supporting association, became a resounding success with 1300 delegates including overseas delegates in large numbers. SIAT exposition also attracted over 200 exhibitors which in itself is a record. It has become a global benchmarking event in terms of knowledge transfer and dissemination.

BAJA SAEINDIA 2013 conducted in February 2013, reached a greater height in terms of number of participants and quality of vehicles put on track. The Event won all round acclaim from industry and engineering institutions who partook with keen interest and ardent fervour. Mahindra, the title sponsors for the event, deserves wholesome praise from all quarters for helping us organize the event in a flawless manner and achieving professional excellence.

It has now been decided to conduct 8th SAEINDIA International Mobility Engineering Conference & Exposition along with Commercial Vehicle Congress of SAE International for the 1st time in India and the event will be called SIMCOMVEC 2013. It will be one of the milestone events at Chennai Trade Centre between 4th & 7th December 2013. The theme of the conference is "Integrated Technologies for Green & Connected Vehicles".

We are fortunate to have Dr.Pawan Goenka as the Patron and Mr.Srivats Ram, M.D.Wheels India Limited as the Chairman of the Steering Committee with a galaxy of industry leaders agreeing to be a part of it. Commercial vehicle conference is done for the first time in India with the total support from SAE International and all of us at SAEINDIA will put in our dedicated efforts to make this first event very successful. I am sure we can count on the active support from all the SAE members and also the entire automotive and commercial vehicle industry to make this event a grand success. With this event, we are paving way to a very large and continuing cooperation between SAEINDIA and SAE International.

SAEINDIA in pursuit of its objective to organize International Lecture Series along with SAE International is conducting a seminar on Automotive Heat Transfer by Dr.Raj Ranganathan on 23rd & 24th April at Chennai and on 26th & 27th at Pune and another seminar has been planned on "Sound Package Materials for Vehicle Noise Control" by Dr.Pranab Saha in mid June 2013.

We seek the support of professional members and industrial fraternity to all our projects and programs so that we reach newer heights in our quest to serve the mobility community.

Please do send us your feedback, valuable ideas and suggestions to enhance the value of your membership.

Warmest Regards,

Shrikant R. Marathe.

SAEINDIA

SAEINDIA Managing Committee Members.

Mr. Shrikant R. Marathe
President

Mr. R.Dayal
Immediate Past President

Dr. Aravind.S Bharadwaj
Sr.Vice President & Chair, Finance Board

Mr. R.K.Malhotra
Vice President & Chair, Meeting & Exposition Board

Dr. Arun Jaura
Vice President & Chair Automobile Board

Dr. Bala K. Bharadvaj
Vice President & Chair, Aerospace Board

Mr. I.V.Rao
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Mr. Asit K Barma
Chair, Publication Board & Web/Media

Mr. C.V.Raman
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Dr. K.C.Vora
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Prof. S.K.Gupte
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Mr. Sanjay P.Deshpande
Vice Chair, Membership Board

Mr. Prakash V Sardesai
Chair, PDP Board

Dr. S.Thirumalini
Chair, Engineering Education Board

Mr. Devendra Bahirat
Chair, Off-Highway Board

Mr. A. Akbar Badusha
Vice Chair, Meeting & Exposition Board

Representing SAE International

Dr. David. L. Schutt

Mr. Murli M. Iyer

Membership Growth Details as on 1st March, 2013



SAEINDIA

NEW VISTAS OF INDIAN A & D

A Strategic Outlook for Aerospace & Defense in Global Context – Issues & Solution

SAEINDIA Aerospace Board and the SAEINDIA Bangalore Section in collaboration with Indo-French Chamber of Commerce (IFCCI) organized a panel discussion on “New Vistas of Indian A&D” – A Strategic Outlook for Aerospace & Defense in Global Context – Issues & Solutions. This interactive-discussion program was organized a day prior to the Aero India 2013 Air Show to educate the participants on the current scenario of the Indian A&D Industry. It was held at Fortune Select JP Cosmos, on the 5th of February from 9 AM to 3 PM. The strategic discussion event was supported by Indo-French Centre for Promotion of Advanced Research (IFCPAR) and the Knowledge Partner was Assystem.



“New Vistas of Indian A&D” - this strategic level discussion program explored the way forward for the A&D Industry and aimed to seek solutions to the various issues and challenges faced by the industry.

The first panel, chaired by Mr. Damodaran SUBRAMANIAN from SAFRAN Engineering Services set the discussions moving forward, by charting down the expectations of the global OEMs like AIRBUS, SAFRAN and MOOG Aerospace. The second panel headed by Dr. Bala K. BHARADVAJ from Boeing India R&T answered the questions and reservations raised in the first session. The panel members were of the opinion that the earlier success of IT and the automotive sector in India has led to the rise of similar expectations from the Aerospace industry by discounting the fact that the life cycle in aerospace is of much longer timelines. The discussion precisely moved to the third session headed by Mr. Munirathnam JAVAJI from Assystem where NASSCOM, KPMG and IFCPAR shared insights of various activities, policies and frameworks developed across different areas to mainly upgrade the skill levels of the Indian workforce, both present and future.

The event was sponsored by Industry majors in Aerospace like IFCCI, Assystem, IFCPAR | CEFIPRA, Altair, CADES, SAFRAN, Aspect Ratio, Surana & Surana, Trilegal and became a resounding success setting a new benchmark for Aerospace Board.

CAE Colloquium 2013

QuEST Global along with SAEINDIA Aerospace Board organized an exclusive technical conference ‘CAE Colloquium 2013’ on Computation Aero Heat Transfer & Structures on 6th March 2013 at Le MERIDIEN HOTEL, Bangalore. The conference was attended by technical representatives from the CAE Industry, Government and Academia.

Eminent senior scientists and engineers of the industry including Boeing, GTRE (Gas Turbine Research Establishment, DRDO), NAL (National Aerospace Laboratories), ADA (Aeronautical Development Agency), Rolls-Royce, Honeywell, Innovent, NAFEMS, SAE etc. presented their views on the latest trends in this highly technical arena, and shared their research, knowledge and ideas on the new and emerging technologies for aerospace applications, propulsion systems, industrial power generation and transportation disciplines.



Dr Bala K Bharadvaj, Chairman Aerospace Board, SAEINDIA, (Managing Director, Research & Technology, Boeing India) threw light on “The Role of Computer Aided Engineering” in Aerospace. He started his talk with a snapshot of Boeing aeroplanes, and elaborated how the company had gone about making their contribution by making a difference in the field of aviation in tandem with the evolution of computers and technology. Mr. Bharadvaj, highlighted the important **CAE technology** and shared several interesting fact about the aircraft construction and design industry. He mentioned how the industry depended solely on the designers intuition and how many lives were lost in the history of aviation due to some miscued calculations done by the designers. Today however, CAE with its simulation technology has significantly reduced this risk, thereby making air travel much more safe and secure. Mr. Bharadvaj stressed on the need for the present day engineering students to devote their time understanding the physics and science involved with aerodynamics and aviation rather than learning to run a few CAE codes. He exhorted him to devote equal importance to both wind tunnel testing and CAE technology as both according to him were the need of the hour for the industry.

SAEINDIA

SAEINDIA Off-Highway Board EDU Meet2013

Society of Automotive Engineers (SAEINDIA) Off-Highway Board, in association with SAEINDIA Western Section organized the SAEINDIA Off-Highway Workshop EDU Meet 2013 on "Aspiring Women Engineers for Off-Highway Industry". The event was sponsored by Automotive Research Association of India (ARAI), M/s. Cummins India Ltd., M/s. Eaton Technologies Pvt. Ltd., M/s. John Deere India Ltd., M/s. JCB India Ltd., and M/s. PTC India Ltd.

Engineering is vital to any economy and has important benefits to the society. It is now recognized that the strength of Human Resource would decide the growth of the nation. If women join this force, our strength would double up and India would become a super power. Somehow, there has been limited attractiveness of engineering as a career to many, especially women. Hence, to move in this direction, SAEINDIA is promoting women for engineering studies and the benefit to society is apparent. Serious attempts to restructure the engineering culture need to be examined and propagated so that in the 21st century, we can prepare students for leadership in benefiting society through more diversified workforce.



The Off Highway Board of SAEINDIA conducted this Workshop at Cummins College of Engineering for Women, Pune. 300 female students from Cummins College of Engineering for Women, Vishwakarma Institute of Technology, Maharashtra Institute of Technology (MIT), College of Engineering Pune and ARAI Academy were present for this workshop. Success stories of Women Engineers and a Panel Discussion to take this forward were the major highlights of this workshop.

Mr. Shrikant Marathe, Director ARAI and President SAEINDIA said, "Women are breaking into what has traditionally been a male dominated sector of Off-Highway Engineering. It is imperative to have the right blend of men and women to help the industry growth. Mr. Devendra Bahirat, Head, John Deere Electronic Solutions India and Chairman SAEINDIA Off-Highway board said, "A diverse workforce is crucial for accelerating growth of companies. **Dr. Indira J Parikh, President, Foundation for Liberal and Management Education (FLAME)** who was a key note speaker, said, "Last century has witnessed Indian women in a new persona.

Women will play an important role in every country including India.

Lecture Meet – Embedded Systems and Its Application in Automotive Industry by Prof. Rameshwar Rao, Vice-Chancellor, JNTU

In building knowledge sharing system through subject experts and highly professional industrial leaders were the students/ corporate can connect to domain expertise, SAEINDIA Hyderabad formulated a program that we refer as Lecture Meets at Universities and colleges.

The aim is to encapsulate knowledge, awareness, and key developments on all technological developments in today's world and to incorporate these in the new talent for a better tomorrow.



SAEINDIA Hyderabad had organized the first lecture meeting at JNTU campus on 3rd Nov-12 on '**EMBEDDED SYSTEMS AND ITS APPLICATION IN AUTOMOTIVE**' by Mr. Rameshwar Rao. The event started with lighting of lamps by Mr. Rameshwar Rao, Dr. G. Padmanabham, Associate Director, International Advanced Research Centre for Powder Metallurgy & New Materials (ARCI) and Vice Chairman, SAEINDIA Hyderabad Division and Mr. Suman Nelluri, Vice President – Automotive Robotics and Secretary, SAEINDIA Hyderabad Division. The event moved ahead with Dr. G. Padmanabham briefing on programming schedule and introducing the speaker. With more than 200 students, faculties of different departments, corporate and other industrial professionals attended the lecture from across different domains. The lecture broadly focused on the following topics

- Introduction of embedded functions
- Embedded systems overview
- Design challenge – optimizing design metrics
- Technologies
- Processor technologies
- IC technologies
- Design technologies

The lecture lasting for more than 2 hours highlighted in a nut shell the different practical applications of embedded field in automotive domain and the case studies, examples from the subject expert served as an informative sessions for the audiences and leading them to more questions for understanding.

SAEINDIA

Towards Safer, Cleaner & Quieter World - SIAT 2013

SAEINDIA and A.R.A.I. are strategic partners working together in their common objective of Knowledge development and dissemination advancing the cause of mobility community.

Symposium on International Automotive Technology (SIAT) is a biennial program of ARAI and has become a jewel in the crown over the years. In the edition of SIAT, SAEINDIA was the supporting association partner as in the past.

The 13th edition, SIAT 2013, was organized between 9th to 12th January 2013 at ARAI campus in Pune. The theme of SIAT'13 was **"Towards Safer, Cleaner & Quieter World"**.



The Convenor of SIAT 2013 was Mr. N B Dhande, Dy. Director,(PTE) and the Coordinator of SIAT Expo was Mr. A A Badusha, Dy. Director, (VEL).

"SIAT 2013" was inaugurated on 9th January 2013. The chief guest for the inaugural function was Mr. Praful Patel, Hon'ble Minister of Heavy Industries and Public Enterprises, Govt. of India. Guest of honour was Mrs. Supriya Sule, Hon'ble Member of Parliament.

The other dignitaries present on the dais were Mr. Anant Talaulicar, Ex-President of ARAI and Chairman & Managing Director of Cummins India, Mr. M Murli Iyer Member of SAEINDIA MC, representing SAE International, Mr. Shrikant. R. Marathe, Chairman SIAT 2013 Advisory Committee & Director – ARAI & President SAEINDIA and Mr. N B Dhande, Dy. Director & Convenor SIAT 2013.

In the inaugural function, a videotaped message from Dr. David Schutt, CEO of SAE International was displayed recalling the synergy in development of standards and Best practices between SAE International and A.R.A.I. and how each is complementing the other in serving the industry to attain global benchmark in standards and research. Mr. Murli M. Iyer Executive Global Advisor, SAE International also spoke on the occasion reinforcing the strong bonds that already exist and assuring continued partnership in future developments.

During the symposium Total of 183 technical papers was presented including 35 Keynote Papers in 38 sessions. More than 50 papers were presented by international experts. The deliberations were focused on the key areas such as, Vehicle & Structural Dynamics, Automobile Air-Conditioning & HVAC, Automotive Safety, Alternate Fuels, Emissions, NVH (Noise Vibrations and Harshness), Materials & Manufacturing, Global regulations, CAE & CFD Methodology, Automotive Electronics, Hybrid & Electric Vehicles, Power train.

SIAT 2013 was attended by about 1300 delegates from all across the globe representing 25 countries.



A SIAT 2013 proceeding DVD was published during the Inaugural Function of SIAT along with Technical Reference Bulletin which contain 31 articles on different topics and case studies presented by experts in their respective field.

The grand Exposition SIAT EXPO 2013 was open to automotive personnel and interested public and provided a great opportunity to share and disseminate information and conduct business. About 120 exhibitors, occupying 201 stalls from all across the globe participated in the SIAT Expo. About 5000 visitors visited SIAT EXPO 2013.

The SIAT 2013 mega event concluded with the Valedictory function chaired by Chief Guest Mr. A K Upadhyay, Secretary, Ministry of Road Transport & Highways, Govt. of India. The Guests of honour Mr. Sanjay Bandopadhyaya, Joint Secretary, Ministry of Road Transport & Highways, Govt. of India, Mr. Ambuj Sharma, Joint Secretary of Ministry of Heavy Industries & Public Enterprises, Govt. of India and Mr. Nitin Gokarn, CEO & Project Director, NATRIIP graced the occasion. Mr. Shrikant. R. Marathe, Director – ARAI & President SAEINDIA delivered the welcome speech on this occasion and the various awards were distributed by the Chief Guest and Guests of Honour. The function concluded with vote of thanks by Mr. N. B. Dhande, Dy. Director & Convenor SIAT 2013.

SAEINDIA

BAJA 2013

The seventh season of BAJA SAEINDIA, an inter-collegiate student event was organized at the NATRAX facility of NATRIP in Pithampur, Indore from 15th to 17th February'13.

This Year 260 engineering institutes constituting over 6500 students participated in the event. The fierce competition of BAJA SAEINDIA covered several events such as the mega-workshop, virtual BAJA qualifier, technical scrutiny, student workshops etc. All these events finally lead to the finale - BAJA SAEINDIA 2013.

The theme for this year was ZERO TOLERANCE, which focuses on First time right as per Rule book, self certification for 100% compliance and 100% readiness for technical inspection.



The well structured events precisely aligned with the practices followed in the industry make BAJA SAEINDIA a totally different experience for the budding engineers. The Cost Report which reflects the Bill Of Materials ideology, the Marketing Presentation — an insight into viable & saleable product, the Design Report - an engineer's vision and Product Concept and the Team Work and Leadership Skills exhibited by the students prepare them for a better tomorrow and gives them a competitive edge amongst their peers in their respective careers.

Only 120 teams out of 260 survived the eliminations of Virtual BAJA. The Virtuals round was the filtration criterion through which all the registered participants were scrutinized for their knowledge and capability to participate successfully in the main event.

The first 3 days' activities comprised of Technical Inspection, Marketing Presentation, and Design evaluation of the 120 vehicles that made it through the Virtual round. The panel of judges consisted of well known automobile experts from across Indian Automotive industry from companies like Mahindra, ARAI, TATA, John Deere, GM etc. The judges inspected the vehicles to declare them as Technically Fit for the Dynamic Events to be followed during the course of the 4-day event.

The teams had to undergo stringent static scrutiny on parameters like design, costing, concept of marketing the vehicle, safety parameters as per rule book provided by BAJA SAE. The Technical Inspection was done by the trained inspectors who thoroughly inspected the vehicle for Safety, Suspension, Brakes, Powertrain, Interiors, roll cages and all the other important parameters.



After the Static technical Inspection, vehicles were evaluated for the dynamic events category of maximum acceleration, brake test, slope test and maneuverability, followed by 4 hour durability test on the rough track.

On the occasion, Dr.Pawan Goenka, President, Automotive & Farm Equipment Sectors, M&M said, "we are pleased with the overwhelming response. Since the inception of the competition in 2007, we have dedicated ourselves to developing young engineering talent and such a response makes us happy about our long association with SAEINDIA. We look forward to seeing more innovations from the student teams in the future."

Sh.Shrikant Marathe, Director of ARAI and President of SAEINDIA, said, "With the exponential growth within the auto industry in India, it is imperative to create an environment that will effectively promote the development of young talent in the sector. Event like this provide students the platform to inculcate the much-needed practical experience to prepare future designers and leaders."

The category wise winners of different dynamic events were:

- Maximum Acceleration: College of Engg, Pune
- Best Maneuverability: KIET, Ghaziabad
- Hill Climb: Vellore Institute of Technology, Vellore,
- Durability: College of Engg, Pune
- Engineering Design: PSG College of Tech, Coimbatore.

Team Nemesis from college of Engineering, Pune bagged the honors of the Overall Winners in the seventh edition of BAJA SAEINDIA.

Team IMMORTALS from Krishna Institute of Engineering and Technology, Ghaziabad were the Overall First Runners' up.

Hearty Congratulations to the Winners!

SAEINDIA BANGALORE SECTION

TecXpedition

KPIT CUMMINS Organized a one day program in association with SAEINDIA Bangalore Section on January 16, 2013. The event provided single platform to showcase innovations and publish research results. The daylong event had talks from the industry experts, panel discussion and technology stalls where, SAEINDIA, BS had a stall manned by Mr.Kannan and Mr.Anoop.



The presentations of SAEINDIA, Bangalore Section were displayed. Also, an Effi-cycle vehicle which had participated in SAE Effi-Cycle competitions, from BIT College was displayed.

SAEINDIA,BS-Faculty Advisors' Meet

SAEINDIA, Bangalore section had organised, collegiate clubs' Faculty Advisors' Meet on January 19, 2013 at MVJ College of Engineering, Bangalore. SAEINDIA, BS Management Committee members addressed the faculty advisors' concerns. Also, two experts, Mr.Rajesh from General Motors who has participated as a judge in SAEINDIA Baja competitions and Mr.Ryan Anthony from TVS Motors who had participated in SAEINDIA Baja competition gave valuable information on preparation and participation in the competitions.



SAEINDIA NORTHERN SECTION

Global Powertrain Trends towards Fuel Economy Improvement

A seminar on "Global Powertrain Trends towards Fuel Economy Improvement" was conducted by SAENIS in association with BOSCH India Limited on 18th January 2013, at Optus Sarovar Premiere, Gurgaon.

The seminar started with a welcome address by Mr. P. Panda (Vice President, Engineering Powertrain-MSIL). This was followed by a presentation on Global Powertrain Trends by Mr. Prashanth A.

Mr. Prashanth briefed about Fuel Economy measures for PFI based Powertrains including Hybridization. This was followed by a brief session by Mr. Shriganesh Umbarkar from MSIL about OEM perspective on Alternate Fuel for Automotive.

It was followed by presentations on Alternate Fuels. CNG & Gasoline Direct Injection was discussed briefly. The seminar saw a participation of around 75 people from academia and industry.

The keynote speakers were Mr. Hauke Roesch, Sr. GM & Chief Engineer, BOSCH LIMITED, Mr. Prashanth A, DGM System Engineering, BOSCH LIMITED, Mr. Henri Barbier, Manager System Engineering, BOSCH LIMITED, Mr. Peter Roth, DGM System Engineering, BOSCH LIMITED, Mr. Shriganesh Umbarkar, AGM, Powertrain Engineering, MARUTI SUZUKI INDIA LTD,

To conclude the event, a vote of thanks was proposed by Mr.I.V.Rao (Executive Advisor, MSIL & Director, Maruti Centre of Excellence) and mementos were presented by the speakers.

AWIM National Olympics

22nd December 2012 might not be a very special day for most, but for the dazzling and intense minds of the Nation, it was D-Day, a day when they were full of zeal and passion, the day when their 3 month long hard work was put to test, it was the AWIM National Olympics!

The ultra modern infrastructure at The Daly College, Indore was ready to be the battlefield for the 5th Season of SAEINDIA's National Event. The school authorities made the best of the arrangements to provide an environment that the future engineers of our country deserve. The event was sponsored by M&M 2 Wheelers, ARAI, Trim India, Truba, John Deere & EATON.



The invocation ceremony by the students of The Daly College marked the commencement of the event. This was followed by Lamp lighting ceremony by Honorable Chief Guest Ms.Anuradha Shankar, Inspector General, Indore. She was accompanied by other eminent personalities from the Automotive Industry.

After clearing the hurdles of the Regional's, a total of 31 teams participated for the Jet Toy and Skimmer event.

The day started and so did the hustle bustle; the teams started their strategies of making it to the top slot.

The teams started fabricating their toys as soon as they got their hands on the kits.

The judges had a tough time while scoring as the students seemed to be so professional and well prepared. They were astonished to see the students' know-how about automobiles and latest technologies. The ravishing and enchanting musical & dance performances by the various dance groups were appreciated by everyone. In the concluding speech, Mr.Mukesh Tiwari, Convener and Mr Rahul Hasija, Co-Convener thanked all the sponsors, volunteers, students, teachers and parents for supporting them in this endeavor and making the event a grand success. The Jet Toy Team from St. Columbas, Delhi will represent India in SAEINTERNATIONAL event which will be held in Detroit, USA in April 2013.

SAEINDIA Foundation Annual Award Function'13

The Annual Awards Function of SAEINDIA Foundation was held on 9th January, 2013. The awards were given to honor our Gurus & mentors for their contribution to mobility at large and recognize & motivate young Women Engineers. The Chief Guest for the event was Mr. R C Bhargava, Chairman, MSIL.



Mr. R Dayal, President, SAEINDIA Foundation welcomed the guests and briefed the audience about the activities and achievements of the foundation. More than 100 invitees and guests from Corporate and Academia attended the First Annual Awards Function of SAEINDIA Foundation.

To recognize the talent of Young Women Engineers who have contributed to the mobility community in India, Kalpana Chawla Awards are given every year. A message from Mr. B L Chawla, Father of Kalpana Chawla, was also read. Few lines from the message being:

"Material interests are not the only guiding light. It is something you'd enjoy doing in the long run. Take the time to figure out how to get there. The quickest way may not necessarily be the best, the journey matters as much as the goal. Listen to the sounds of Nature. Wishing you the best on your trek towards your dreams. Take good care of our fragile planet..."

And I, like my dearest daughter Kalpana, believe that there is a Kalpana in each of you. You only have to find it!"

The awardees for the Kalpana Chawla Awards were S.Niranjana (SKCIET Coimbatore), Kaveri Kala (IGIT, Delhi). Anupama Madiyan (IGIT, Delhi).



On this occasion, Mr.Murli Iyer (Executive Advisor Global Affairs, SAE International) and Mr.A.D.Sindwani were recognized for their contribution and support to SAEINDIA Foundation.

The highlights of the evening were the Annual Awards of SAEINDIA Foundation.

- Promotion of Automotive Education Award : Prof (Dr) MKG Babu, Professor (RMK).
- Engineering Excellence Award : Dr. Pawan Goenka, President (M&M).
- Life Time Achievement Award: Dr. Krishan Kumar.

Chief Guest of the evening, Mr. R. C. Bhargava delivered the key note address on Engineering education. In this context, he suggested that a better interface between educational institutes and industry should exist. He briefly mentioned about the difference between the market conditions a decade ago and now. Also, he urged SAEINDIA to focus on how to improve the quality of education, teaching and infrastructure in our country.

Mr.Murli Iyer spoke about partnering of Industry, Academics and SAE to help the mobility community in India. He appealed to the corporate sector to help and support SAEINDIA Foundation through which we can motivate and promote school and college students and young professionals in India, thereby sustaining the mobility community.

Mr. I V Rao, Chairman SAE Northern India Section proposed a vote of thanks to conclude the event.

SAENIS Felicitation Ceremony 2013

On 8th January 201 3, SAENIS fraternity organized a wonderful gathering for all its members to share the events & happenings of the year 2012. The National winners of SAEINDIA 201 2 events were also felicitated by the SAENIS fraternity on this very occasion.

Mr. Murli Iyer (Executive Advisor Global Affairs, SAE International) was the Chief Guest of the event. Many other eminent personalities from automotive world shared the dais with him.



The event started with encouraging words from Chief Guest, Mr. Murli Iyer. This was followed by a brief sharing about the various SAE activities by Mr. I V Rao (Chairman, SAENIS). Later, Mr.Tapan Sahoo (Secretary, SAENIS) briefed about the major activities of SAENIS of the year 201 2.

After that was the time for young blood to take the charge of the podium. Colleges from Delhi/NCR shared about events & initiatives taken up by their SAE collegiate clubs. They also showed the growth and participation of their clubs in various SAE events.

Every year SAEINDIA Northern Section organizes many events, conferences & seminars related to automobile technology. These events bring engineers & technical experts from around the world together to share information & network. To felicitate the hard work put in by students, they were awarded with trophies. The efforts of team from St.Columbas, New Delhi who conquered the AWIM National Olympics 2012 was highly appreciated. This team will be representing India at the SAE International event which will be held in Detroit in April 2013.

The team from Lamia Milia Islamia, winner of Intercollegiate design competition Efficycle 2012 was also awarded with trophy. The event concluded with a thanks note from Mr. Deepak Sawkar (Vice-Chairman Student Activities, SAENIS).

Driving Innovation for Safety and Clean Power

A seminar on "Driving Innovation for Safety and Clean Power" was conducted by SAENIS in association with Continental Automotive Components India Pvt. Ltd. on 28th February 2013, at Country Inn & Suites, Gurgaon.

The seminar was targeted towards practicing engineers, students and faculty interested in vehicle technology in the area of chassis system, passive safety, sensors, engine system, emissions and fuel economy improvement.

In India, today, the company Continental Automotive India has four manufacturing locations Bangalore, Gurgaon, Manesar and Pune. It is located strategically in the automotive hubs of the country with headquarters in Bangalore. With three automotive divisions, Interior, Powertrain and Chassis & Safety, Continental Automotive Components India develops and manufactures a wide range of electronic products. In addition, the company supplies ABS, airbag electronics, pumps, injectors and sensors to its customers in India from its global plants.

The keynote speakers were Mr. Thalavai S. Venkatesan, Head of Engineering and Systems, Continental (India), Mr. Vivekananda Rao, Head Fuel Supply Systems- Engineering, Continental (India), Mr. Arumugam Senthil, Chief Manager, Continental (India), Mr. Deepak Kasturi, Chief Manager, Continental (India), Mr. Rajkamal Walia, Deputy Manager, Continental (India), Mr. Siddharth Bajpai, Engineer, Continental (India). The seminar started with an opening address & introduction by Dr. Tapan Sahoo (Secretary, SAENIS & Vice President, MSIL). This was followed by a presentation on Safety for All - Chassis and Safety with Q&A session. Mr. Siddharth Bajpai briefed about Segment Speed - Chassis and Safety with Q&A session. This was followed by a brief session by S. Thalavai Venkatesan on Clean Power Powertrain.

Mr. Vivekananda Rao gave a presentation on Demand Control of Fuel Supply towards Fuel Consumption and CO2 reduction- Powertrain.

Then a presentation on Technology Innovations of Sensors & Actuators - Powertrain was given by Mr. Deepak Kasturi and Mr. Rajkamal Walia.



The seminar saw a participation of around 65 people from academia and industry.

To conclude the event, a vote of thanks was given by Mr. D. N. Dave, Vice Chair membership, SAENIS and mementos were presented to the speakers.

Have You Registered???

“AUTOMOTIVE HEAT TRANSFER”

By

Dr. Raj Ranganathan

Senior Vice President (Technical),
Showatech, U.S.

On

23-24 April '13 at Chennai

26-27 April '13 at Pune

Profile of visiting faculty :

Dr. Raj Ranganathan is currently the Senior Vice President (Technical) for Showatech, Inc., he was a Director at CD-Adapco. In addition, Dr. Ranganathan worked for General Motors and Caterpillar in the U.S. primarily in gasoline and diesel engines. He received GM's highest award for Innovation, the 2007 Boss Kettering Award.

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SAEINDIA SOUTHERN SECTION

TOP TECH in Automotive Transmissions

The Southern Section of SAE India organized Three Top Tech programs on various engineering topics. The lime light program was on, "Automatic Transmissions" conducted by Mr. R. Venugopal, Mr. S. Srinivasa Rao, Mrs. V. Uma, Mr. G. Venkatesan. All the resource persons are Senior Scientists in CVRDE, DRDO, Ministry of Defense with experience in design, development, testing, vehicle integration of Automatic Transmissions and their sub systems in the power range of 150hp to 1500hp. They had interactions with foreign consultants and automatic transmissions manufacturers.

Lectures in "The Art of Innovation"

The Four Lecture meetings were held on the, "The Art of Innovation" conducted by V. Prashant Rao (Chief of Technology, TAFE Chennai). These were small lecture series for short duration program on various engineering topics. This enabled all participations to cope up with the ever changing demands in their core area.

SAE INDIA SS COLT

A two day residential program for SAEINDIA Collegiate Office bearer was organized in Chennai Institute of Technology, Chennai.

Leaders who graced the SAEISS COLT program, were

- Mr. N. Balasubramanian- Vice Chairman Of SAEISS) – CHIEF GUEST
- Mr. P. Sundararaman (MC Member & AWIM Champion - SAEISS)
- Mr. Parvez Alam (MC Member - SAEISS)
- Mr. Sanjay Nibandhe (Technical head BAJASAE India)
- Mr. Yogesh Nagendiran (MC Member)

Mr. Ravi A.N. Raamanathan & Mrs. Raamanathan took class on communication skills & Personality Development on the first day in SAEISS COLT Program in CIT College, Chennai.

SAEINDIA COIMBATORE DIVISION

Thought provoking and informative talk on “Low Cost Manufacturing for Auto Components”

The lecture held on 27.03.2013 as part of the SAE Coimbatore Division activities along with a few snapshots.



On second day, CIT College Dean introduced & honored the chief guest Mr. N.Balasubramanian, Vice Chairman of SAEISS and MC Members to the participants.



Day two was fully focused on making the participants to understand the importance & benefits of SAEINDIA Member and what are all the activities undertaken by SAEINDIA & SAEINDIA SS.

The session ended with a brief feedback session from the students.

FACTORY VISITS

SAEISS conducted 3 factory visits from January 13 to March 13, SAEINDIA SS plans factory visits for the student members, to give them a practical exposure to industry and to understand the various engineering concepts. In this connection to they plan to cover minimum 10 colleges in a single factory visit as they have around 145 collegiate clubs with 21000 student members.

- TAFE MADURAI
- ROOTS INDIA LIMITED COIMBATORE.
- TAFE CHENNAI.

SAEINDIA SS is planning to have on an average of 5 factory visits every month for student members.



Dr.G.Ranganathan delivered a talk on “Low Cost Manufacturing for Auto Components” which was held at PSG College of technology. Dr.G.Ranganathan, Managing Director, Rover Components Limited Coimbatore has more than thirty five years of industry experience.

His main focus was the on how to achieve low manufacture cost of a product.

He compared different manufacturing types available in India such as job shop, small medium enterprises and large corporation along with their cost structure, productivity levels and skill levels. He emphasized the need for us in India to improve the productivity to enable us to compete at a global level.

He dealt with two case studies that illustrated how a part can be manufactured using different processes without affecting the functionality or quality of the component.

About 50 participants that included members from various industries such as ROOTS Industries (India) Ltd., L.G.Balakrishnan & Bros Ltd, COINDIA attended the meeting.

It was a very thought provoking and informative talk by Dr.G.Ranganathan.

SAEINDIA INDORE DIVISION

Mech – A – Know “It’s Not About Information it’s About Knowledge”

SGSITS actively participates in various national events organized by SAEINDIA such as BAJA and EFFI-CYCLE. Our collegiate club has also produced some innovative events such as YAN - An Aerodynamic event which became a success. Now, we are second time organizing an Automobile quiz MECH-A-KNOW under the SAEINDIA Indore Division.

This quiz is different from other automobile quizzes since it incorporates informative as well as technical aspects of automobile sector. It not only covers historical background but it also focuses on the concepts lying behind various technologies. We not only aim to ensure the enlightenment of the students with technologies of this era but also to make them aware with futuristic needs in engineering.

The Mech A Know 2K13 event in Indore was a feast to the mind. Around 150 teams from various colleges of Indore, Ujjain and Dewar participated. It was held on 17th March 2013 @ the SGSITS campus. The host of the Quiz was Mr. Rajesh Mittal, Senior Vice president, Manufacturing Operations, Volvo, Eicher commercial vehicles. We had them to enhance our knowledge about, The Next generation technology with advance India.

We have planned to execute the same in six more cities of Madhya Pradesh and Chhattisgarh that includes: Indore, Bhopal, Jabalpur, Gwalior, Sagar, Raipur, Bilaspur.

International Lecture

“Sound Package Materials for Vehicle Noise Control”

By

Dr. Pranab Saha, Principal Consultant and co-founder of Kolano and Saha Engineers, Inc.,

On

18-19 June’13 at Chennai

21-22 June’13 at Pune

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SAEINDIA WESTREN SECTION

“Taguchi Techniques and Engineering Innovations”

One day Workshop on “Taguchi Techniques and Engineering Innovation” was conducted successfully on Monday 14th January 2013 at Cummins College of Engineering, Pune.

This Workshop witnessed an overwhelming response from participation of engineers and scholars in the discipline of engineering. The Workshop focused on creating awareness about various aspects of Taguchi Techniques and Engineering Innovations.



The Workshop started with welcome & introduction session of all the speakers, by Ms. Priyanka Chandana, Student from Cummins College of Engineering, Pune

Speakers of Workshop:

- **Dr. Shankar Venugopal**
Director, Technology and Planning,
Cummins India
- **Mr. Anand S. Patil**
General Manager, Engineering & Design
Kohler Lombardini.
- **Mr. Tushar Kanikdale**

Technical Lead, Product Line Interface.

A brief of the Workshop:

Mr. Anand S. Patil is presentation covered the following topic

- Historical Perspective of Taguchi techniques.
 - Evolution of Quality
 - Evolution of Statistical Methods for Quality and Reliability.

- Impact of Higher Quality on Value, etc.
- Definition of Quality:
 - Quality Loss Function
 - Step Function - The Fraction Defective Fallacy
 - Quadratic Loss Function
 - Interpretation of Engineering Tolerances
 - Classification of Parameters
- Basic Elements of the Product Cost.
- Fundamental Principle of the Robust Design Methodology.
- Major Tools used in Robust Design.
- Optimization of Product & Process Design.
- Representative Case Studies.



Dr. Shankar Venugopal's, presentation covered the following topics:

- How to grow ideas into the innovations?
- Innovation Fundamentals.
- Breaking the Myths around Innovation.

It was an interactive session with examples of different Industries.

Mr. Tushar Kanikdale's presentation covered the following topics:

- Barrier to solve the technical problems.
- New way of defining the Problems:
 - Desired Effects
 - Undesired Effects
- Contradictions in the system.
- Technology examples from Auto industry.
- Generic Technology Trends and examples.
- Ideality and Technology Evolution.

Ms. Deepali Dhokane proposed a vote of thanks on behalf of SAEINDIA Western Section and ARAI.

Presented by SAEINDIA Media, Communications and Publications Committee

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International Mobility Congress and COMVEC 2013

Recent tumultuous economic meltdown has brought out the important of economic viability of vehicles and technologies. Growing environment and safety concerns are leading to stricter safety and emission norms globally. Our gluttonous consumption of non renewable fossil fuels has led to rapid depletion of these resources, prompting the need of conserving them with better efficiency. This has also brought about an unprecedented urgency to our search for alternative fuels and other renewable energy sources. These stark challenges require sharply honed human resources to provide breakthrough innovative technologies.

SAEINDIA, the largest affiliate of SAE International, is organizing this congress along with an exposition that will focus on research and innovative technologies relevant to sustainable mobility. This, in addition, will also help prepare the mobility-engineering work force to harness develop and manage innovative technologies.

A strong national and international level participation comprising practicing engineers, researchers, officials, industries, private and government R & D organisations, educational institutions and student community is expected. This congress is a part, which will help us to build wings to our dreams. Participate actively by submitting your papers to compete in the best arena of the Industry.

Call for Papers

Technical Papers on the following technology areas are invited:

- Advanced Engine Technologies
- Alternative Fuels
- Emissions Control
- On Board Diagnostics/Prognostics/RFID
- Hybrid and Electric Vehicles
- Vehicle Architecture and Communication Networks
- Advanced Safety Systems/Human Factors
- Advanced Driver Assistance Systems
- Vehicle Dynamics and Handling
- NVH and Cabin Comfort
- Simulation and Modelling
- Braking & Steering Systems
- Advanced Materials
- HVAC Systems
- Thermal System Components
- Thermal System Modelling and Simulation
- Energy Efficiency of Thermal Systems
- Climate Control
- Thermal Systems for Hybrids and EVs
- Adaptive Electronics Controls
- Telematics
- Hydraulics/Electro-hydraulics
- Standards and Regulations
- Advanced Manufacturing Methods
- Military Applications & Dual Use Technologies

Plenary Sessions

Plenary sessions have been planned each day from 4th to 7th Dec 2013.

Top Tech Programs

TopTech Programs have been planned each day from 2th to 3th Dec 2013.

Panel Discussions

Panel discussions with eminent personalities from automotive industry, Government and Academia are planned.

CALL FOR PAPERS

Abstracts of papers are to be sent to the Convenor on or before Friday, the 26th April 2013. Abstract should be limited to maximum 300 words, emphasizing significance of analytical / experimental study and originality of the contribution. Abstracts will be evaluated by a group of experts. Draft manuscripts of selected abstracts will be invited for evaluation according to SAE technical paper quality guidelines.

The abstracts of the papers to be sent to:

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