Enhancing Engineering Knowledge

Overview of SAENIS Activities
A prelude..

A journey of a thousand miles begins with a small step..

Dr. K. Kumar
Ex-Director (MSIL, MACE)
Mentor (SAENIS)
Founder Chairman (2000-2004)
• Society of Automotive Engineers (SAE) is the most respected professional Mobility body of Practicing Engineers & Students....

`Proud to be a member of SAE`
<table>
<thead>
<tr>
<th></th>
<th>Title</th>
<th>Name</th>
<th>Organization</th>
</tr>
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<tbody>
<tr>
<td>1</td>
<td>President</td>
<td>Dr. Bala K. Bharadvaj</td>
<td>Managing Director, Boeing Engineering and Technology Center India</td>
</tr>
<tr>
<td>2</td>
<td>Immediate Past President</td>
<td>Dr. R.K. Malhotra</td>
<td>Director General, Federation of Indian Petroleum Industry</td>
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<tr>
<td>3</td>
<td>Sr. Vice President</td>
<td>Mrs. Rashmi Urdhwareshe</td>
<td>Director, Automotive Research Association of India (ARAI)</td>
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<td>4</td>
<td>Vice President</td>
<td>Mr. I.V. Rao</td>
<td>Executive Advisor, Maruti Suzuki India Ltd.</td>
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<td>5</td>
<td>Secretary</td>
<td>Mr. Deepak Sawkar</td>
<td>Senior Vice President, Maruti Suzuki India Ltd.</td>
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<tr>
<td>6</td>
<td>Treasurer</td>
<td>Dr. K.C. Vora</td>
<td>Senior Deputy Director, Automotive Research Association of India (ARAI)</td>
</tr>
<tr>
<td>7</td>
<td>Member</td>
<td>Mr. N. Balasubramanian</td>
<td>Deputy Vice President, Renault Nissan Tech. &amp; Business Centre India Pvt. Ltd.,</td>
</tr>
<tr>
<td>8</td>
<td>Member</td>
<td>Prof. Prakash Joshi</td>
<td>Founder, Joint Managing Trustee, MIT Group of Institutions</td>
</tr>
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<td>Mr. P. Panda</td>
<td>Executive Vice President, Maruti Suzuki India Limited</td>
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<td>Member</td>
<td>Dr. R. Rajendran</td>
<td>Professor, SRM Institute Of Science And Technology, Chennai</td>
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<tr>
<td>11</td>
<td>Member</td>
<td>Mr. Dinesh Shyamsundar</td>
<td>Leader, WABCO Technology Centre, India</td>
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<td>12</td>
<td>Member</td>
<td>Mr. S. Shanmugam</td>
<td>Director, Design Desk India</td>
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<td>13</td>
<td>Member</td>
<td>Dr. D. Muruganandam</td>
<td>Professor &amp; Head, Jeppiaar Institute of Technology, Chennai</td>
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<td>14</td>
<td>Member</td>
<td>Mr. Prakash Sardesai</td>
<td>Head - Applications Engineering &amp; Business Development, Süd-Chemie India Pvt Ltd.</td>
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<td>15</td>
<td>Member</td>
<td>Mr. S. Sriraman</td>
<td>Senior Vice President, Tractors and Farm Equipment Limited (TAFE)</td>
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<td>16</td>
<td>Member</td>
<td>Mr. R. Velusamy</td>
<td>Senior Vice President, Mahindra &amp; Mahindra Ltd</td>
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<td>17</td>
<td>Member</td>
<td>Ms. Pamela Tikku</td>
<td>Chief Business Officer, International Centre For Automotive Technology (iCAT)</td>
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<tr>
<td>18</td>
<td>Member</td>
<td>Mr. Munirathnam Javaji</td>
<td>Founder &amp; CEO, Javaji M Consulting Pvt Ltd</td>
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<td>19</td>
<td>Representative SAE International Member / Member of SAEINDIA</td>
<td>Dr. David Schutt</td>
<td>CEO, SAE International</td>
</tr>
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<td>Mr. Murli M. Iyer</td>
<td>Global Advisor, SAE International</td>
</tr>
</tbody>
</table>
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Ex-Director, MSIL & MACE  
Mentor (SAENIS)  
**Founder Chairman (2000-04)**

Mr. S.K. Bhatia  
Chairman, SAENIS (2004-05)

Mr. S. Maitra  
**Chairman, SAENIS (2005-06)**

Mr. R. Dayal  
Sr Advisor, MSIL  
**Chairman, SAENIS (2006-08)**

Dr. R.K. Malhotra  
DG, FIPi  
**Chairman, SAENIS (2008-10)**  
**President, SAEINDIA (2016-18)**

Mr. I.V. Rao  
Exe Advisor, MSIL  
**Chairman, SAENIS (2010-14)**

Mr. C.V. Raman  
Sr. Executive Director, MSIL  
**Chairman, SAENIS (2014-18)**

Evolution under Able Leadership..
Mr Dinesh Tyagi
Director, ICAT
Chairman

Dr SSV Ramakumar
Director (R&D), IOCL
Sr Vice Chairman

Mr P Panda
Sr. VP (Engg), MSIL
Sr Vice Chairman

Mr CV Raman
Sr. Exec. Director, MSIL
Past Chairman

Dr Tapan Sahoo
Sr. VP (Engg), MSIL
Secretary

Mr NS Rao
GM (Engg), MSIL
Treasurer

Committees
- Membership
- Technical
- Student Activities
- Student Competition
- Seminar & Conference
- Exe Members

SAEINDIA
The Engineering Society For Advancing Mobility Land Sea Air and Space

SAEINDIA
Society of Automotive Engineers INDIA

An Affiliate of SAE INTERNATIONAL
SAENIS – Governing Board: 2018-20

**Membership**

- Mr. Anoop Bhat
  - VP (Engg), MSIL
  - *Vice Chairman*

- Ms. Pamela Tikku
  - Sr. GM, iCAT
  - *Vice Chairman*

**Technical**

- Prof S Maji
  - Director, DITE
  - *Vice Chairman*

- Mr. D Sawkar
  - Sr. VP (Engg), MSIL
  - *Vice Chairman*

**Student Activities**

- Mr. S Raina
  - VP (Engg), MSIL
  - *Vice Chairman*

- Mr. Rakesh Sood
  - MD, Trims India
  - *Vice Chairman*

**Seminar & Conf**

- Dr. Madhusudan Joshi
  - DGM, ICAT
  - *Vice Chairman*

- Mr. Deepak Panda
  - VP (Engg), MSIL
  - *Vice Chairman*
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<th>St. Competitions</th>
<th>Executive Members</th>
<th>Mentor</th>
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<tbody>
<tr>
<td>Mr. A Jaitley VP (Engg), MSIL</td>
<td>Mr B Bhanot Chairman, TEDC</td>
<td>Dr K Kumar Ex-Director (MACE)</td>
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<td>Exec Member</td>
<td>Mentor</td>
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<tr>
<td>Mr. UD Bhangale Advisor, ICAT</td>
<td>Mr. Naveesh Garg CSO, MINDA</td>
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<tr>
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<td>Mr Murli Iyer Exe Adv, Global Aff</td>
<td>Invitee</td>
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<td>Dr Reji Mathai GM, IOC R&amp;D</td>
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<td>Vice Chairman</td>
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**SAENIS – Governing Board: 2018-20**
Membership Benefits
Proud to be Member of SAE India

• **SAE Membership Helps You Grow Both Personally and Professionally**
  Only SAE Members Have Opportunities To:

• **Get Moving:**
  SAE Members are provided with access to a host of benefits handpicked specifically to help enhance your personal life as well as to support your professional career. Being a member of SAE means that you have all of the tools at your fingertips that will help get you moving in the right direction.

• **Get Connected:**
  SAE makes it easy to expand your network. SAE lets you explore cross-sector topics by interacting with other mobility engineering professionals around the globe. Members also are able to connect much closer to home through SAE Sections and Collegiate Chapters.

• **Get Engaged:**
  Whether it is volunteering for one of the organization's Student Competitions, working alongside your peers in the development of technical standards, or serving on a committee or operating board, SAE membership provides you with numerous opportunities to get engaged and make a lasting impact on your industry.
1. Mobility Engineering Magazine

- Members have the option of Magazines from Aerospace, Off Highway or Automotive industry
- Option of e-Magazine
- Annual Publication from SAE International
SAE Digital Library

- Member only Free Access to SAE International Papers
  (Available at SAE NIS Office-Gurgaon)

- Access to Presentations shared by Experts during SAE India Seminars
  (Online on SAE NIS website – member only section)
Access at Discounted price to SAE top Events in the country and abroad

SAE International Conferences
- SIAT
- SIIMC
- SIMCOMVEC
- SAE Congress (USA)

Technical Seminars
For select groups on specific topics delivered by the Experts in the field
Many times Free of Cost

Professional Development Programs, Domain Programs, Education Meets, Seminars and Trainings programs throughout the year.

International Lecture Series (Modern Vehicle Transmission, Engine Failure Analysis, Evaporative Emission Control Programs, etc.), Webinar and Webcast Programs.
**Membership Benefits**

**Opportunity to Connect with Academia & Students**

- Technical Judges
- Organizers
- Opportunity to Lecture in colleges
- Faculty Development
- Benefit from Student Innovation

---

SAE India Supra

SAE India Efficycle

SAE India Baja

SAE India AWIM

Student Convention in a College
Recognition

Awards for Papers Presented

SAE Fellowships

91 Presentations were delivered in 22 Technical Sessions (17 Industry and 5 Student)

SAE India – Delegate
(Select Delegate to Mobility Congress)
Membership Benefits

6 SAE Welcome Kit

- Welcome Kit to be provided to all new members.
- The SAE Welcome Kit includes:
  - Business Card Holder
  - Key Ring
  - SAE India Badge
  - Packaging Box
  - Welcome Letter by Chairman SAE NIS
  - SAE Magazine
Highlights of Seminars and Events

Learning and Engagement Opportunities
Organized : ~ 76 Technical Seminars (Aug 2011 ~ Mar 18)

Total Participation : ~ 4400 (Range: 25 ~ 220 / seminar)

For Students: Free participation (2 students / collegiate club)

Target : 12 Seminars/Year (Spread across topics and region)
SAE NIS Conferences - Feb 15 ~ Mar 2018
## SAE NIS Conferences - Feb 15 ~ Mar 2018

<table>
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<tr>
<th>S. no.</th>
<th>Topic</th>
<th>Organizer</th>
<th>No. of Delegates</th>
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<tbody>
<tr>
<td>1</td>
<td>Fatigue Analysis Simulation and Testing</td>
<td>Steyr &amp; Finite To Infinite</td>
<td>30</td>
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<td>2</td>
<td>High Strength Steels</td>
<td>Tata Steel</td>
<td>35</td>
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<tr>
<td>3</td>
<td>Future of Emission Regulations</td>
<td>Horiba</td>
<td>59</td>
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<tr>
<td>4</td>
<td>Analysis of Critical Engine Parts</td>
<td>Federal - Mogul</td>
<td>20</td>
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<td>5</td>
<td>CO2 Reduction Req. and Strategies</td>
<td>Delphi</td>
<td>40</td>
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<td>6</td>
<td>Durability Engineering</td>
<td>Siemens</td>
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<tr>
<td>7</td>
<td>Symposium on Fuels &amp; Emissions</td>
<td>MSIL and IOC</td>
<td>235</td>
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<td>8</td>
<td>Gear Design &amp; Analysis</td>
<td>KISSsoft AG</td>
<td>27</td>
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<tr>
<td>9</td>
<td>Simulation Driven Design for Product dev.</td>
<td>MSC Software</td>
<td>30</td>
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<tr>
<td>10</td>
<td>Vehicle Data Analysis and Control Design</td>
<td>Mathworks</td>
<td>50</td>
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</tbody>
</table>
PROPOSED ACTION PLAN:

- Creation of Think Tank FOR THERMAL MANAGEMENT SYSTEMS
- Create Awareness in Other Regions on TMS
- Formation of small Task Force with representatives from Industry and Academia.
Dates for the summer school: **12th to 16th June 2018.**

- VENUE: GLBITM, Greater Noida
- 25 Faculty Advisors and 25 Industry Professionals to attend
- Tentative Schedule attached
- Registration are Open

New Initiative
# 1st Summer School on Automotive Technology

**12th-16th June, 2018**

## Technical Program

<table>
<thead>
<tr>
<th>Time Slot</th>
<th>Session #</th>
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<th>Likely Speakers</th>
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<tbody>
<tr>
<td><strong>DAY 1</strong></td>
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<tr>
<td>8:30-9:00 hrs</td>
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<td>Registration</td>
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<td>9:00-10:15 hrs</td>
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<td>Inaugural Session</td>
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<tr>
<td>10:15-11:00 hrs</td>
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<td>High Tea</td>
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</table>
| 11:00-12:30 hrs         | TS-1      | Over view of the latest advances & trends in automotive technology            | Mr. P. Panda, MSIL                                   | Senior Vice President, Maruti Suzuki Ltd.                                        | 1. Changing landscape of mobility - Indian Perspective  
2. Way to low cost, low GHG sustainable transportation                                         |
| 12:30-13:30 hrs         | TS-2      | From Concept to Production-Vehicle development process                      | Dr. Tapan Sahoo, MSIL                                | Senior Vice President, Maruti Suzuki Ltd.                                        | 1. Product Development Process - Concept, Styling and Package  
2. Overview of vehicle manufacturing.  
3. Quality control & conformations.                                                        |
| 13:30-14:15 hrs         |           | Lunch Break                                                                  |                                                      |                                                                                 |                                                                                           |
| 14:15-15:15 hrs         | TS-3      | Fuels & emissions Scenario- past, present & future                          | Dr. Reji Mathai, IOCL                                 | General Manager (Technology Promotion & Forecasting)  
IOCL R&D Centre, Faridabad                                                        | 1. Overview of emission legislations - Indian & Global perspective  
2. Autofuel policy & fuel quality.                                                        |
| 15:15-16:15 hrs         | TS-4      | Advances in Engine Technology                                                | Dr. S. S. Thipse, ARAI                               | Deputy Director, Power Train Engineering  
The Automotive Research Association of India                                           | 1. Overview of new technologies for different vehicle segment  
2. Impact of BS VI on engine development  
3. Fuel economy norms and impact on engine development.                                     |
| 16:15-16:45 hrs         |           | Tea Break                                                                    |                                                      |                                                                                 |                                                                                           |
| 16:45-17:30 hrs         | TS-5      | Vehicle Technology Simulation and Analysis Tools                             | Mr. Anand Kumar Talari, Siemens                       | Technical Focus Lead – Automotive Powertrain, Siemens India                      | 1. Overview of IC engine simulations  
2. Aerodynamic analysis of vehicles  
3. Analysis tools for transmission, vehicle body, thermal systems etc.                        |
## Technical Program

### DAY 2

<table>
<thead>
<tr>
<th>Time Slot</th>
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</thead>
<tbody>
<tr>
<td>09:00-10:15hrs</td>
<td>TS-6</td>
<td>Hybrid &amp; Electric vehicle-Technology advances &amp; future challenges</td>
<td>Mr.Mahesh Agarwal, Honda</td>
<td>Asst.Vice President, Honda R&amp;D India</td>
<td>1. Overview of hybrid configurations-HEV,PHEV &amp; BEV&lt;br&gt;2. Battery technologies available. &lt;br&gt;3. Charging protocols</td>
</tr>
<tr>
<td>10:15-11:15 hrs</td>
<td>TS-7</td>
<td>GDI Engines-Technology overview</td>
<td>Dr. Sajith V, NIT-C</td>
<td>Associate Dean (Planning &amp; Development), NIT-Calicut &amp; Visiting Scholar, Dept. of Material Science and Nano Engg., Rice University, USA</td>
<td>1. Overview of GDI engine technology&lt;br&gt;2. GDI combustion concepts. &lt;br&gt;3. Fuel economy and emission benefits</td>
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<tr>
<td>11:15-11:45 hrs</td>
<td>Tea Break</td>
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<td>13:00-13:45 hrs</td>
<td>Lunch Break</td>
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<tr>
<td>14:45-15:45 hrs</td>
<td>TS-10</td>
<td>Electronic engine management system</td>
<td>Dr. Ramesh, IIT Madras</td>
<td>Professor, Internal Combustion Engines Laboratory, Department of Mechanical Engineering, IIT Madras</td>
<td>1. Overview of ECU mapping strategies&lt;br&gt;2. ECU diagnostic tools and principles. &lt;br&gt;3. ECU requirements for autonomous vehicles.</td>
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<td>15:45-16:15 hrs</td>
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<tr>
<td>16:15-17:15 hrs</td>
<td>TS-11</td>
<td>Lubricants for meeting latest fuel efficiency &amp; emissions norms</td>
<td>Dr. Saritha Garg, IOCL</td>
<td>General Manager (Automotive Oil), IOCL R&amp;D Centre, Faridabad</td>
<td>1. Overview of Key Lubricant specifications across vehicle segments. 2. Technology Overview for BS VI Engine compliant lubricants &lt;br&gt;3. Lubricant chemistries for improved fuel economy</td>
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<td><strong>DAY 3</strong></td>
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<td><strong>Sessions at ICAT</strong></td>
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<tr>
<td>09:00-10:15 hrs</td>
<td>TS-11</td>
<td>Overview of Legislative testing for automobiles</td>
<td>Ms Vijayanta Ahuja,ICAT</td>
<td>Asst.General Manager(CTS),iCAT</td>
<td>1. Overview of Certification protocols 2. Future trends for homologation and safety certifications</td>
</tr>
<tr>
<td>10:15-11:15 hrs</td>
<td>TS-12</td>
<td>Automotive test systems and instrumentation</td>
<td>Mr.Rakesh Tyagi,AVL</td>
<td>Head – Training &amp; Skill Development, AVL India</td>
<td>1. Overview of engine and vehicle testing architecture 2. Brief about the test systems such as dyno, automation, fuel measurement etc 3. Test cell design for legislative testing</td>
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<td>11:15-11:45 hrs</td>
<td>Tea Break</td>
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<tr>
<td>11:45-13:00 hrs</td>
<td>TS-13</td>
<td>Type approvals &amp; COP for automobiles</td>
<td>Mr Prashant Vijay,ICAT</td>
<td>Asst.GeneraManager,Project management,iCAT</td>
<td>1. Over view of COP evaluation 2. Technical Challenges to Meet In-Service Conformity Procedure</td>
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<td>13:00-13:45 hrs</td>
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<td><strong>DAY 4</strong></td>
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| 09:00-10:15 hrs     | TS-14     | Advanced Combustion, Emissions and Modeling Aspects in IC engines.              | Dr. K. A. Subramanian, IIT-D             | Associate Professor in Centre for Energy Studies, Indian Institute of Technology Delhi | 1. Overview of IC engine combustion  
2. Effect of new engine technologies on combustion parameters.  
3. Basics of combustion modeling |
| 10:15-11:15 hrs     | TS-15     | After treatment strategy for meeting future emission norms                     | Mr. Phansalkar, Tenneco                 | Director Engineering, Clean Air Systems, Tenneco Speaker Confirmation pending | 1. Aftertreatment technologies for Achieving BS VI Norms in India across vehicle segments  
2. Overview of SCR, DPF & DOC technologies. |
| 11:15-11:45 hrs     | Tea Break |                                                                                |                                          |                                                                                 |                                                                                           |
| 11:45-13:00 hrs     | TS-16     | 2 wheeler engine technology- Future challenges                                | Mr. Harjit Singh, Hero Motor Corp       | (Executive Advisor-Tech) Hero Motocorp Ltd Speaker Confirmation pending          | 1. Impact Of BS-VI norms for 2 wheeler industry  
2. Fuel injection system for new engines  
3. After treatment strategies |
| 13:00-14:30 hrs     | Lunch Break |                                                                                |                                          |                                                                                 |                                                                                           |
| 14:30-15:30 hrs     | TS-17     | Vehicle safety technology                                                      | Mr. Deepak Panda, MSIL                  | General Manager, Maruti Suzuki Ltd.                                             | 1. Safety technology development startegies  
2. Overview of Vehicle-to-Vehicle communication, Traction control system, Active Kinematics Control |
| 15:30-16:00 hrs     | Tea Break |                                                                                |                                          |                                                                                 |                                                                                           |
| 16:00-17:00 hrs     | MCQ       |                                                                                |                                          |                                                                                 |                                                                                           |
| **DAY 5**           |           |                                                                                |                                          |                                                                                 |                                                                                           |
| 09:00-11:00 hrs     | Visit to MSIL |                                                                            |                                          |                                                                                 |                                                                                           |
| 11:15-11:30 hrs     | Tea Break |                                                                                |                                          |                                                                                 |                                                                                           |
| 11:30-13:00 hrs     | Concluding Session, Feedback & closure of Summer School |                        |                                          |                                                                                 |                                                                                           |
| 13:00-14:00 hrs     | Lunch Break |                                                                                |                                          |                                                                                 |                                                                                           |
Highlights of Student conventions

Opportunities for Knowledge dissemination & Learning
A platform for a larger number of students of a particular region to gather under one roof and enrich their learning through various activities planned. Some of the activities are listed below:

- Technical lecture by Industry experts
- Panel discussion between Industry & Academia
- Various technical events like Auto Quiz, Design Challenge
- Technical Paper presentation
- Poster & Project Competition

In 2014-18, 12 student conventions conducted in Jaipur, Dehradun & NCR region.
Preparing future Engineers by bridging Industry – Academia Gap

A forum to apprise students about latest technological shift in automotive industry

Technical lectures on below mentioned topics conducted in the past

- Automotive Plastics & Usage
- Alternate Fuels
- Vehicle NVH & Materials
- Automotive HVAC
- Engine optimization & Reduced emissions
- Product Development & Management
- Lifecycle Costing

In 2014-18, 80 Engineering colleges were benefitted.
GLIMPSE OF STUDENT ACTIVITIES

Benefits:
- Foster a bond between Industry & Academia
- Empowering student community
- Improving skill set’s of students & Industry members
- Team working
- Overcoming failure
- Awareness about latest practices in mobility Engineering
- Project Management
A Unique experience linking Engineering Design and Physical Science with Fun.

AWIM is a program that builds bridges between corporations and classrooms by giving teachers, Industry Volunteers, University/College volunteers, and students the opportunity to work together and learn from each other.
SAEINDIA Foundation Awards

- SAEINDIA Foundation has been recognizing aspiring and promising school, college students & Industry professionals by giving scholarships.
- It’s an initiative to recognize Individuals who have significantly contributed towards advancement of mobility community in India.

An overview of awards is illustrated below:

- **School Students**
  - A World in Motion Awards
- **College Students**
  - Kalpana Chawla Award
  - Section awards for Students
  - Prof B S Murthy Award
  - Myers Uyehara Outstanding Student paper Award
  - Revati Iyer Memorial Award
  - SAEINDIA Student of the Year Award
- **University Professors**
  - SAEINDIA GURU Awards
- **Working Professionals**
  - SAEINDIA Engineer of the Year Award
- **Section Volunteers**
  - SAEINDIA Champions Award
- **Individuals**
  - Life Time Achievement Award
  - Roll of Honor
- **Corporate/University**
  - SAEINDIA Corporate Award
Benefits to Your Organization

Besides the direct benefits for the members, the respective organizations also gain a lot:

1. **Lower Participation fee for Engineers**
2. **Exposure of engineers to latest technologies and developments in the related fields**
3. **Leadership Skill Development thru Volunteering: Development of Interpersonal skills, Planning and Execution skills for Engineers selected as Organisation team members for Events like Baja, Supra, AWIM, Efficycle, etc.**
4. **Motivation**
5. **Industry networking**
1. Join SAE NIS as Professional Members
   - Support SAENIS in the membership drive in your organisation

2. Participate and Drive SAENIS activities
   - Make Jaipur a happening place for SAENIS activities.
   - Identify self motivated change agents for leading student conventions, Technical lectures
   - Identify Technical speakers & Topics for industry
   - Identify Industry volunteers and Technical Judges for AWIM, Efficycle, Supra
Membership Fees

- **Lifetime / Long Term Membership**
  Option for 10 years: 11800 Rs.

**Professional Membership**
- Membership fee below 28 yrs and faculty – Rs.1298/-
- Membership fee above 28 yrs: Rs.1652/-

Directly Pay through PayUmoney
Thank you…