

# SIAT 2021 PROGRAMME

DAY 1 Wednesday, 29 <sup>th</sup> September 2021						DAY 2 Thursday, 30 <sup>th</sup> September 2021						DAY 3 Friday, 01 <sup>st</sup> October 2021																																																																	
10:00 to 11:15 hrs - Plenary Session 1 (Theme - Sustainable Mobility)						10:00 to 12:00 hrs - Technical Sessions						09:00 to 11:00 hrs - Technical Sessions																																																																	
Chairman- Dr. R. K. Malhotra, Director General, FIPI (Federation of Indian Petroleum Industry).						Hall - 1    Hall - 2    Hall - 3    Hall - 4    Hall - 5    Hall - 6						Hall - 1    Hall - 2    Hall - 3    Hall - 4    Hall - 5    Hall - 6																																																																	
Rapporteur- Mr. N V Marathe, ARAI						Session 7		Session 8		Session 9		Session 10		Session 11		Session 12		Session 25		Session 26		Session 27		Session 28		Session 29		Session 30																																																	
Plenary Speakers :						Advanced Powertrain Technology (1)		E-mobility (2)		Emission Measurement & Control Technology (2)		Noise, Vibration & Harshness (NVH) (2)		Validation Technologies (2)		Simulation & Modeling (2)		Bio mobility		Active and Passive Safety (2)		Emission Measurement & Control Technology (4)		Noise, Vibration & Harshness (NVH) (4)		Validation Technologies (4)		Simulation & Modeling (5)																																																	
Mr Alan Gemmill, British Deputy High Commissioner for Western India and Her Majesty's Trade Commissioner for South Asia,GOV.UK Topic: Roll of UK Trade in fostering India- UK partnership in Automotive Sector						SESSION CHAIR						SESSION CHAIR																																																																	
Dr.SSV Ramakumar, Director (R&D) and Board Member, Indian Oil Corporation Ltd. Topic: Fuel scenario for sustainable Mobility						Mr. N. V. Marathe, ARAI		Mr. Amit Mehta, Joint Secretary, Ministry of Heavy Industries		Mr. Krishnan Sadagopan, Ashok Leyland		Mr. S R Marathe, Consultant		Mr. K Rajakumar, M&M		Mr. Alok Jaitley, Maruti Suzuki India Ltd.		Mr.Shishir Josphipura, Praj Industries		Mr. Ravishankar, Consultant		Dr. Yogesh Aghav, Kirloskar Oil Engines Ltd.		Dr. M. Ambardekar, Tata Motors Ltd.		Ms. Pamela Tikku, ICAT		Mrs. Anuradha Ganesh, Cummins																																																	
Dr. Camilo Adas, President, SAE Brazil. Topic: The Ethanol Mobility Scenario in Brazil						KEYNOTE SPEAKER						KEYNOTE SPEAKER																																																																	
11:15 to 11:30 hrs - Break						Dr Peter Broll - Deutz						Dr Dr Amitab Saran -Altigreen Propulsion Labs						Dr. Ameysa Joshi - Corning						Prof. M. L. Munjal - Indian Institute of Science, Bengaluru						Mr. Nick Molden- Emissions Analytics						Mr. KVS Ravikrishna - Ansys						Dr S. K. Puri - Indian Oil Corporation Limited , R&D Centre						Dr. Pradeep Mohan - Humanetics, Inc., USA						Mr. Rajesh Maynal-Umicore Autocat						Mr. David Hudson-ePROPELLED Limited, Innovation Centre						Mr. P S Gowrishanka - Tata Motors Ltd.						Mr. Ramnik Singh - Gamma Technologies India					
11:30 to 12:45 hrs - Plenary Session 2 (Theme - Future Trends for Mobility)						TECHNICAL PAPERS						TECHNICAL PAPERS						TECHNICAL PAPERS						TECHNICAL PAPERS																																																					
21SIAT-0222/2021-26-0057						21SIAT-0496/2021-26-0172						21SIAT-0454/2021-26-0203						21SIAT-0850/2021-26-0281						21SIAT-0438/2021-26-0498						21SIAT-0730/2021-26-0370						21SIAT-1341/2021-26-0104						21SIAT-0444/2021-26-0010						21SIAT-1144/2021-26-0211						21SIAT-0995/2021-26-0301						21SIAT-0251/2021-26-0475						21SIAT-0254/2021-26-0338											
21SIAT-0168/2021-26-0048						21SIAT-0552/2021-26-0153						21SIAT-0475/2021-26-0209						21SIAT-0861/2021-26-0268						21SIAT-0638/2021-26-0499						21SIAT-0792/2021-26-0423						21SIAT-0691						21SIAT-1007/2021-26-0016						21SIAT-1294/2021-26-0193						21SIAT-0213/2021-26-0278						21SIAT-1356/2021-26-0445						21SIAT-01302/2021-26-0362											
21SIAT-0232/2021-26-0069						21SIAT-1273/2021-26-0139						21SIAT-0501/2021-26-0188						21SIAT-0979/2021-26-0459						21SIAT-0827/2021-26-0342						21SIAT-1188/2021-26-0227						21SIAT-0605/2021-26-0011						21SIAT-1401/2021-26-0195						21SIAT-1564/2021-26-0294						21SIAT-1365/2021-26-0444						21SIAT-1304/2021-26-0405																	
21SIAT-0498/2021-26-0060						21SIAT-0602/2021-26-0144						21SIAT-0504/2021-26-0204						21SIAT-0869/2021-26-0276						21SIAT-1003/2021-26-0483						21SIAT-0734/2021-26-0356						21SIAT-0890/2021-26-0519						21SIAT-1297/2021-26-0026						21SIAT-1438/2021-26-0199						21SIAT-1441/2021-26-0293						21SIAT-1494/2021-26-0487						21SIAT-1363/2021-26-0414											
12:00 to 12:15 hrs - Break						12:15 to 13:45 hrs - Technical Sessions						12:00 to 12:15 hrs - Break						11:00 to 11:15 hrs - Break																																																											
12:15 to 13:45 hrs - Technical Sessions						Session 13		Session 14		Session 15		Session 16		Session 17		Session 18		Session 31		Session 32		Session 33		Session 34		Session 35		Session 36																																																	
Chairman- Shri. C V Raman, President, ARAI & CTO, Maruti Suzuki India Limited						Advanced Driver Assistance Systems (ADAS)		E-mobility (3)		Automotive Lighting		Materials & Manufacturing (1)		Advanced Vehicle Dynamics		Simulation & Modeling (3)		Off Highway Vehicles		E-mobility (4)		Autonomous Vehicles		Materials & Manufacturing (2)		Vehicular Systems		Simulation & Modeling (6)																																																	
Rapporteur- Mr. A V Mannikar, ARAI						SESSION CHAIR						SESSION CHAIR																																																																	
Plenary Speakers :						Mr. C Rajesha , BOSCH		Mr. R Velusamy, Mahindra Rise		Mr.Tapan Sahoo, Maruti Suzuki India Ltd.		Dr. Rajiv Basargekar, Consultant		Mr. Narendra Pardeshi, Skoda, VW		Mr. Abhay Bakre, Bureau of Energy Efficiency		Mr. Kamal Bali, Volvo		Mr.A.A. Deshpande, ARAI		Dr. Manaswini Rath, KPIT		Dr. Sanjay Arole, SMA Engineering Solutions		Mr. A. A. Badusha, ARAI		Mr. Jabez Dhinagar, TVS																																																	
Dr. Guenter Fraidl, Senior Vice President – Power Train Engineering (PTE) Department, AVL Graz Topic: Overview of global emission scenario & future challenges						KEYNOTE SPEAKER						KEYNOTE SPEAKER																																																																	
Dr. Madan Gopal, Principal Safety Engineer, Tesla Topic: Tesla approach to safety systems development						Dr. Mircea Gradu-Velodyne Lidar, Inc., USA		Dr. Giorgio Rizzone - The Ohio State University		Mr. Geoffrey R Draper - DVN		Mr. Arvind Nene - Innuovo Magnetics, China		Dr. Venkat Srinivas- Mahindra Truck and Bus Division		Mr. Saurabh Diddi-Bureau of Energy Efficiency		Mr. Shaileendra Jagtap - John Deere India,		Mr Britto Edward - Rohm Semiconductor India PVT. Ltd.		Mr. Abel Carbonell- Applus IDIADA Dr. Shanti Medasani - MathWorks		Mr. Gunnar O'Connor - Latent Heat Solutions LLC.		Mr. John Fredrik Gronvall - SITIS (Volvo)		Dr. Akella Sarma - Mahindra & Mahindra Limited																																																	
Dr. George Gillespie, President, HORIBA Automotive Topic: Future Trends in Mobility						TECHNICAL PAPERS						TECHNICAL PAPERS						TECHNICAL PAPERS																																																											
21SIAT-0881/2021-26-0038						21SIAT-0656/2021-26-0160						21SIAT-0828/2021-26-0132						21SIAT-0551/2021-26-0218						21SIAT-0053/2021-26-0075						21SIAT-0876/2021-26-0412						21SIAT-1182						21SIAT-0685/2021-26-0163						21SIAT-1468/2021-26-0127						21SIAT-1230/2021-26-0259						21SIAT-0987/2021-26-0221						21SIAT-1406/2021-26-0348											
21SIAT-1027						21SIAT-1016/2021-26-0148						21SIAT-1277/2021-26-0130						21SIAT-0575/2021-26-0242						21SIAT-0748/2021-26-0080						21SIAT-0852/2021-26-0324						21SIAT-0440/2021-26-0089						21SIAT-1281						21SIAT-1388/2021-26-0125						21SIAT-0751/2021-26-0255						21SIAT-0313/2021-26-0312						21SIAT-1440/2021-26-0350											
21SIAT-0542/2021-26-0033						21SIAT-1259/2021-26-0156						21SIAT-0376						21SIAT-0428/2021-26-0245						21SIAT-0096/2021-26-0088						21SIAT-0855/2021-26-0400						21SIAT-0508/2021-26-0092						21SIAT-1556/2021-26-0157						21SIAT-1388/2021-26-0125						21SIAT-1289/2021-26-0246						21SIAT-0554/2021-26-0517						21SIAT-1502/2021-26-0364											
12:45 to 13:00 hrs - Lunch						13:45 to 14:15 hrs - Lunch						13:45 to 14:15 hrs - Lunch						12:45 to 13:00 hrs - Lunch																																																											
13:00 to 14:30 hrs - Inaugural Function						14:15 to 15:30 hrs - Plenary Session 3 (Theme -Smart Mobility)						14:15 to 15:30 hrs - Plenary Session 3 (Theme -Smart Mobility)						13:00 to 14:00 hrs - Valedictory Function																																																											
Chief Guest : Dr. Mahendra Nath Pandey, Honourable Minister of Heavy Industries, Govt. of India						Chairman- Dr. Pawan Kumar Goenka, Independent Director, Bosch & Chairperson Designate for INSPACe - Dept. of Space, Government of India						Rapporteur- Dr. K C Vora, ARAI						Chief Guest : Shri Nitin Gadkari, Hon'ble Minister for Road Transport & Highways, Govt. of India																																																											
Shri Arun Goel, Secretary, Ministry of Heavy Industries, Govt. of India.						Plenary Speakers :						Shri Swapnil Jain, Co-founder & CTO, Ather Energy Topic:Development of cost effective E-mobility solutions for India						Shri Rajendra Petkar, Chief Technology Officer, Tata Motors Ltd. & Vice President, ARAI																																																											
Shri C. V. Raman, President, ARAI & Chairman, SIAT 2021 Organizing Committee & CTO, Maruti Suzuki India Limited						Shri. Tarun Aggarwal, Executive Director R&D, Maruti Suzuki India Limited Topic: Roadmap for connected passenger cars in India						Shri. Reji Mathai, Chairperson, SIAT 2021 Advisory Committee & Director, ARAI						Dr. S S Thipse, Convenor, SIAT 2021 & Sr. Deputy Director, ARAI																																																											
Mrs. Rashmi Urdhwarshre, President, SAE India						Shri. Rajeev Singh, Partner and Leader Automotive, Deloitte India Topic:Global perspective on technological roadmap for automotive sector						Dr. S S Thipse, Convenor, SIAT 2021 & Sr. Deputy Director, ARAI						Dr. S S Thipse, Convenor, SIAT 2021 & Sr. Deputy Director, ARAI																																																											
Dr. Reji Mathai, Chairperson, SIAT 2021 Advisory Committee & Director, ARAI						15:00 to 17:30 hrs - Technical Sessions						15:30 to 18:00 hrs - Technical Sessions						14:00 to 14:15 hrs - Lunch																																																											
Dr. S S Thipse, Convenor, SIAT 2021 & Sr. Deputy Director, ARAI						Hall - 1		Hall - 2		Hall - 3		Hall - 4		Hall - 5		Hall - 6		Hall - 1		Hall - 2		Hall - 3		Hall - 4		Hall - 5		Hall - 6																																																	
15:00 to 17:30 hrs - Technical Sessions						Session 1		Session 2		Session 3		Session 4		Session 5		Session 6		Session 19		Session 20		Session 21		Session 22		Session 23		Session 24																																																	
Alternative Fuels						E-mobility (1)		Emission Measurement & Control Technology (1)		Noise, Vibration & Harshness (NVH) (1)		Validation Technologies (1)		Simulation & Modeling (1)		Advanced Powertrain Technology (2)						Active and Passive Safety (1)		Emission Measurement & Control Technology (3)		Noise, Vibration & Harshness (NVH) (3)		Validation Technologies (3)		Simulation & Modeling (4)																																															
SESSION CHAIR						SESSION CHAIR						SESSION CHAIR						SESSION CHAIR																																																											
Mr. B. Bhanot, Consultant		Ms. R. Urdhwarshre, President, SAEINDIA		Mr. Anirudha Kulkarni, Tata Motors Ltd.		Dr. M L Munjal, ISC		Dr. N Karuppaiah, National Automotive Test Tracks		Mr. P K Banerjee, SIAM		Dr. K C Vora, ARAI		Mr. A.V. Mannikar, ARAI		Mr. P.V. Sardesai, Consultant		Mr. N. V. Karanth, Consultant		Dr. Venkat Srinivas, Mahindra Truck and Bus Division		Dr. Ravi Damodaran, Greaves Cotton Ltd.		Chairman- Shri. Amit Varadan, JS, MoRTH																																																					
KEYNOTE SPEAKER						KEYNOTE SPEAKER						KEYNOTE SPEAKER						KEYNOTE SPEAKER																																																											
Mr. Ravindra Vasisht - Hexagonagility		Mr. Ian Constance - Advanced Propulsion Centre		Mrs Beth Hinchee - Caterpillar		Dr. Joseph Venor- ESI Group		Mr. Julian Busch - MPR International		Mr. Martin Abart - AVL		Mr David Milam - Caterpillar		Mr. Jochen Feese - Mercedes-Benz Research and Development India		Dr. Eckhoff Stephan - Umicore and		Mr. John Kell - Department for International Trade (DIT)		Mr. Rohit Vaidya - Tata Motors Ltd.		Moderator- Mr. Rajat Mahajan, Deloitte																																																							
Mr. Siddhartha Mayur - H2E Power Systems Pvt Ltd		Mr. Prasanna Deshpande - MathWorks		Mr. Kazuya Tsurumi -Horiba		Mr. Oliver Knaus- AVL		Mr. P Bala- Ampere Vehicles Pvt Ltd		Mr. Avinash Padmappa- Ansys		Dr. Kanakasabapathi Subramanian- Ashok Leyland		Dr. Anna Winge Berling- Volvo		Mr. Klaus Hau- Vitesco Technologies India Pvt Ltd		Dr. Gerhard Schagerl- AVL		Panelist :																																																									
TECHNICAL PAPERS						TECHNICAL PAPERS						TECHNICAL PAPERS						TECHNICAL PAPERS																																																											
21SIAT-0423/2021-26-0102		21SIAT-0286/2021-26-0140		21SIAT-0389/2021-26-0185		21SIAT-1196/2021-26-0272		21SIAT-0121/2021-26-0442		21SIAT-0102/2021-26-0421		21SIAT-0503/2021-26-0049		21SIAT-0983/2021-26-0008		21SIAT-0556/2021-26-0189		21SIAT-0879/2021-26-0306		21SIAT-0999/2021-26-0476		21SIAT-0989/2021-26-0326		Shri Rajendra Petkar,Chief Technology Officer, Tata Motors Ltd. & Vice President, ARAI																																																					
21SIAT-1231/2021-26-0119		21SIAT-0336/2021-26-0161		21SIAT-0267/2021-26-0182		21SIAT-0273/2021-26-0264		21SIAT-0225/2021-26-0490		21SIAT-0517/2021-26-0409		21SIAT-1335/2021-26-0055		21SIAT-1154/2021-26-0023		21SIAT-0849/2021-26-0210		21SIAT-0898/2021-26-0288		21SIAT-1114/2021-26-0494		21SIAT-1181/2021-26-0402		Shri. Neeraj Sinha, Sr. Adviser (S&T), NITI Aayog																																																					
21SIAT-0547/2021-26-0225		21SIAT-0667/2021-26-0169		21SIAT-0636/2021-26-0190		21SIAT-0785/2021-26-0280		21SIAT-0397/2021-26-0481		21SIAT-0131/2021-26-0047						21SIAT-0831/2021-26-0012						21SIAT-0094/2021-26-0208						21SIAT-1343/2021-26-0307						21SIAT-1305/2021-26-0449						21SIAT-0903/2021-26-0344																																					
14:15 to 15:45 hrs - Panel Discussion (Theme- Redefining Mobility for future)						14:15 to 15:45 hrs - Panel Discussion (Theme- Redefining Mobility for future)						14:15 to 15:45 hrs - Panel Discussion (Theme- Redefining Mobility for future)						14:15 to 15:45 hrs - Panel Discussion (Theme- Redefining Mobility for future)																																																											
15:45 to 16:00 hrs Closure																																																																													