

Thermal Management Systems Conference - 2021
Future Thermal Systems for Sustainable Mobility
Event At A Glance
First Day, September 22, 2021

10:00AM Onwards	Conference Open for Login
	Inaugural Session followed by Opening Speech.
10:30AM - 11:20AM	Chief Guest & Key Note Speakers: Dr. Rashmi Urdhwareshe President, SAEINDIA Ex Director, ARAI; Mr. Dinesh Tyagi Director, ICAT Chairman SAENIS; Dr. Tapan Sahoo ED, MSIL Sr. Vice Chairman – SAENIS; Dr. P Kadle Fellow, SAE Fellow, ASME ; Mr. C Anil Kumar SGM, Tata Motors ; Mr. Yash Pal Singh Negi COO, Subros Ltd. ; SAE NIS GB Members & TTTMS21 Mentors & EC Members
11:20AM - 12:00PM	Theme: Future Thermal Systems for Sustainable Mobility. Theme Speakers : Mr. Ramnik Singh Head India Operations, Gamma Technologies, LLC Dr. Murugan Sivasankar Tech Lead, Mahindra Research Valley
12:00PM - 12:40PM	Panel Discussion: India Cooling Action Plan - Technology Upgradation. Panelists: Dr. R S Agarwal Technical Advisor & Consultant, Ozone Cell; Ms. Shikha Bhasin Senior Programme Lead, CEEW; Mr. SH Kapoor GM - ERC, Tata Motors Mentor - TTTMS2021: Mr. Tarun Garg Programme lead, AEEE; Mr. Kapil Singhal Managing Director , B P Refcool
12:40PM - 01:00PM	Paper Presentation: Experimental Results of a Novel Electronic Expansion Valve. Presenter: Mr. Jürgen Sohn, Otto Egelhof GmbH & Co.KG
01:00PM - 01:20PM	Paper Presentation: A Novel Approach Towards Predicting Cabin Cool Down by Using Coupled 1D & 3D Simulation. Presenter: Mr. Anit Sen, Subros Ltd.
01:20PM - 02:00PM	Poll Results / Feedback Session
02:00PM - 02:20PM	Paper Presentation: Optimizing an Automotive HVAC System For Enhancement of Acoustic Comfort. Presenter: Mr. Prasanna V Nagarhalli, Tata Motors, Ltd.
02:20PM - 02:40PM	Paper Presentation: A Practical Approach towards Reducing the HVAC Flow Noise. Presenter: Mr. Arun Kumar Goel, Subros Ltd.
02:40PM - 03:00PM	Paper Presentation: Parked Car Thermal Management and Air Quality System. Presenter: Mr. Koshy P Joseph, SCMS School Of Engineeringand Technology
03:00PM - 03:20PM	Paper Presentation: Attaining Thermal Comfort by Utilizing Polymer Dispersed Liquid Crystal Embedded Wind Shield and Roof of a Passenger Car. Presenter: Mr. Prabakaran B, Hindustan Institute Of Technology And Science
03:20PM - 03:40PM	Paper Presentation: Impact of IHX Sizing on Automotive Climate Control Performance Optimization. Presenter: Mr. Abhishek Raj, Subros Ltd.
03:40PM - 04:00PM	End of the Day 1 Session (Poll results & Summary) <i>Note: Organizers reserves the right to change presentation schedule and speakers without any prior notice.</i>

Second Day, September 23, 2021

Second Day, September 23, 2021	
10:30AM Onwards	Conference Open for Login
11:00AM - 11:20AM	<p>Paper Presentation: Methodology to Simulate Adsorption and Desorption Phenomena of Gasoline Fuel Vapour in Activated-Carbon Canister to Meet Post-EU6 and US EPA Global Emission Norms.</p> <hr/> <p>Presenter: Mr. Selvaraji Muthu, Vellore Institute of Technology</p>
11:20AM - 11:40AM	<p>Paper Presentation: Thermal Calibration of Exhaust Manifold FEA Model to Enhance TMF Life Prediction.</p> <hr/> <p>Presenter: Mr. Pavan Prakash Patil, Cummins Technologies India Pvt Ltd</p>
11:40AM - 12:00PM	<p>Paper Presentation: Design Optimization of Two-Wheeler Radiator with the Base Design Using the Mathematical Modelling Tools & Testing Data.</p> <hr/> <p>Presenter: Mr. Saurabh Suman, Subros Ltd.</p>
12:00PM - 12:20PM	<p>Paper Presentation: Experimental Investigation On The Effect Of Natural Based Additives On Single-Cylinder Di Diesel Engine.</p> <hr/> <p>Presenter: Mr. Raja Velusamy, College of Engineering Guindy</p>
12:20PM - 12:40PM	<p>Paper Presentation: Methodology for Optimized Automotive Grill Opening Area Prediction Based on 1D Simulation Approach and Correlation with Prototype Test Model.</p> <hr/> <p>Presenter: Mr. Rohit Chandra Pauriyal, Mahindra & Mahindra, Ltd.</p>
12:40PM - 01:00PM	<p>Paper Presentation: Analysis of Thermal Coating on Engine Performance Parameters & Fuel Economy of a Small Size NA Spark Ignition Engine.</p> <hr/> <p>Presenter: Mr. Harshit Kumar Kaushik, Maruti Suzuki India, Ltd.</p>
01:00PM - 01:20PM	<p>Paper Presentation: Thermal Performance and External Air Side Pressure Drop Prediction for Automotive Charge Air Cooler (CAC) using 1-D Simulation.</p> <hr/> <p>Presenter: Mr. Shankar Ganesan, Mahindra Research Valley</p>
01:20PM - 02:00PM	Poll Results / Feedback Session
02:00PM - 02:40PM	<p>Keynote Speaker Session: Real Drive Emissions - Opportunities & Challenges.</p> <hr/> <p>Speaker: Mr. Vikas Sadan DGM - Power Train, ICAT EC Member, SAENIS TTTMS21</p>
02:40PM - 03:00PM	<p>Paper Presentation: Under-hood CRFM and CAC Air Flow Management of Vehicle to Improve Thermal Performance by 1D method using AMEsim.</p> <hr/> <p>Presenter: Mr. Samson Solomon, Mahindra & Mahindra, Ltd.</p>
03:00PM - 03:20PM	<p>Paper Presentation: Method of Improvement of Air Flow Uniformity to Reduce the Evaporator Frosting of a Passenger Car.</p> <hr/> <p>Presenter: Mr. Anit Sen, Subros Ltd.</p>
03:20PM - 03:40PM	<p>Paper Presentation: Design and Analysis of a Muffler for Engine Exhaust Noise and Heat Reduction.</p> <hr/> <p>Presenter: Mr. Sadhasivam Deepan Kumar, Bannari Amman Institute of Technology</p>
03:40PM - 04:00PM	<p>End of the Day 2 Session (Poll results & Summary) Note: Organizers reserves the right to change presentation schedule and speakers without any prior notice.</p>

Third Day, September 24, 2021

10:30AM Onwards	Conference Open for Login
10:45AM - 11:25AM	<p>Keynote Speaker Session: Faster Adoption & Manufacturing of Hybrid & Electric Vehicles - Future Roadmap.</p> <p>Speaker: Mr. DM Mani GM, Tata Motors; Mr. Roshan Toshniwal Associate Director and Head of Urban Mobility, Ola Electric Mobility Institute; Mr. Jitendra Goyal GM, Toyota Kirloskar</p>
11:25AM - 11:45AM	<p>Paper Presentation: CHT Simulation of Electric Motor Cooling.</p> <p>Presenter: Dr. Raghu Vamsee, Simerics Inc.</p>
11:45AM - 12:05PM	<p>Paper Presentation: Experimental Investigation on the Effect of HVAC Power Consumption in Electric Vehicle Integrated with Thin Film Solar PV Panels.</p> <p>Presenter: Mr. Shreekant Srivastava, Mahindra Research Valley</p>
12:05PM - 12:25PM	<p>Paper Presentation: Identifying the Optimal Thermal Conditions for Lithium Ion Cells under Real World Aging & the Need for Adaptive Battery Thermal Management.</p> <p>Presenter: Mr. Vignaesh Subramaniam, Valeo India Private Limited</p>
12:25PM - 12:45PM	<p>Paper Presentation: Design Optimization of Battery Thermal Management System for Electric Vehicles.</p> <p>Presenter: Mr. Saurabh Suman, Subros Ltd.</p>
12:45PM - 01:05PM	<p>Paper Presentation: CFD Analysis of a Prismatic Liquid Cooled Battery Pack to Optimize the Cold Plate and Battery Temperature under Variable Operating and Coolant Conditions.</p> <p>Presenter: Mr. Suvankar Manna, Novus Nexus India Pvt Ltd</p>
01:05PM - 01:25PM	<p>Paper Presentation: Numerical Study of Thermal Management of Lithium-Ion Battery Pack Using Liquid Cooling.</p> <p>Presenter: Mr. Vikrant Mahesh Deshmukh, College of Engineering, Pune</p>
01:25PM - 02:00PM	Poll Results / Feedback Session
02:00PM - 02:20PM	<p>Paper Presentation: Thermal Characterization of Li-ion Phosphate (LiFePO4) HEV Battery Using HPPC Test.</p> <p>Presenter: Mr. Kiran Kalyan Gunjal, Automotive Research Association of India</p>
02:20PM - 02:40PM	<p>Paper Presentation: A Detailed Review on Thermal Management System of Electric Vehicles.</p> <p>Presenter: Mr. Ankit Shukla, Subros Ltd.</p>
02:40PM - 03:00PM	<p>Paper Presentation: Modeling and Thermodynamic Analysis of Li-Ion Battery for EV Using MATLAB.</p> <p>Presenter: Mr. Namdev Parge, College of Engineering, Pune</p>
03:00PM - 03:20PM	<p>Paper Presentation: Smart Control Logic of Battery Cooling System for Electric Vehicles (EVs).</p> <p>Presenter: Mr. Tejash Yadav, Subros Ltd.</p>
03:20PM - 03:40PM	<p>Paper Presentation: Balancing of HVAC System Energy Consumption in Electric Vehicles.</p> <p>Presenter: Mr. Bhavik Mehta, Tata Motors Ltd</p>
03:40PM - 04:00PM	<p>End of the Day 3 Session (Poll results & Summary) Note: Organizers reserves the right to change presentation schedule and speakers without any prior notice.</p>

Fourth Day, September 25, 2021

10:30AM Onwards	Conference Open for Login
	Keynote Speaker Session: Corporate Average Fuel Economy - Future Challenges.
11:00AM - 11:45AM	Speaker: Mr. Anup Bhat EVP, MSIL Sr. Vice Chairman – SAENIS; Dr. Dipak Maiti India Head, Simerics;
11:45AM - 12:05PM	Paper Presentation: Advanced Developments in Solid Desiccant Coated Heat Exchangers and Their Potential Applications.
	Presenter: Mr. Selvaraji Muthu, Vellore Institute of Technology
12:05PM - 12:25PM	Paper Presentation: Implementing Low-GWP Technologies in MVAC Systems: Challenges and Regulatory Approaches.
	Presenter: Mr. Himanshu Dixit, Council on Energy, Environment and Water (CEEW)
12:25PM - 12:45PM	Paper Presentation: Simulating Thermal Comfort for a Vehicle.
	Presenter: Mr. Mustafa Nomani, Tata Motors Ltd.
12:45PM - 01:05PM	Paper Presentation: Solar Powered Incabin Evaporative Cooling System.
	Presenter: Mr. Sunny Singhal, Subros Ltd.
01:05PM - 01:25PM	Paper Presentation: A Review on Thermal Management in electric vehicle battery system by liquid cooling.
	Presenter: Ms. Pranati Sahoo, 3M
01:25PM - 02:00PM	Poll Results / Feedback Session
02:00PM - 02:20PM	Paper Presentation: Advanced BEV Battery Pack Thermal Simulation Model Development & Co-relation with Physical Testing.
	Presenter: Mr. Yogesh Pradeep Dol, Tata Technologies Ltd.
02:20PM - 02:40PM	Paper Presentation: Fundamental Understanding of Phase Change Mechanism of Refrigerant Flow in HVAC Pipe.
	Presenter: Mr. Rahul Ashok Joshi, Tata Motors, Ltd.
02:40PM - 03:00PM	Paper Presentation: Study of Various Techniques for the Reduction of Mobile Air Conditioning (MAC) Compressors Noise inside the Passenger Cabin.
	Presenter: Mr. Ram Anandan, Mahindra & Mahindra, Ltd.
03:00PM - 03:20PM	Paper Presentation: A New Brazing Solution for Low Flux Residue in Brazed Aluminium Automotive Heat Exchangers.
	Presenter: Mr. House Xu, Granges Aluminum AB
03:20PM - 04:45PM	<p>End of the Day 4 Session (Poll results); Event Summary & Closing remarks.</p> <p>Declaration of Top 3 Technical Papers & Top 3 Paper Presentation</p> <p>Mr. CV Raman CTO, MSIL Senior Vice President & Chair Finance Board, SAEINDIA; Mr. IV Rao Visiting Senior Fellow, TERI Mentor & Executive Member, SAENIS; Mr. Balraj Bhanot Chairman, TEDC(BIS) Mentor & Executive Member, SAENIS; Mr. Pravin Ghate GM, Tata Motors; Mr. Srinidhi Dampur Executive Vice President, Subros Ltd.;</p> <p>SAE NIS GB Members & TTTMS21 Mentors & EC Members</p> <p style="color: red;">Note: Organizers reserves the right to change presentation schedule and speakers without any prior notice.</p>