

Event At A Glance
Event Sponsors



MARUTI SUZUKI



First Day, August 26, 2020

10:00AM Onwards	Conference open for Login
10:30AM - 11:00AM	Inaugral Session followed by Opening Speech. Chief Guest & Key Note Speakers: Mr. Balraj Bhanot (Management Consultant, Chairman TEDC (BIS)); Mr. Dinesh Tyagi (Director, ICAT); Ms. Shradha Suri (Managing Director, Subros Limited)
11:00AM - 11:30AM	Theme: Future Thermal Systems - New Possibilities. Theme Speakers : Mr. Sandeep Raina (SVP-Engineering, MSIL); Dr. Prasad Kadle (Fellow SAE, Fellow ASME); Mr. S.H. Kapoor (GM, ERC, Tata Motors Ltd.)
11:30AM - 12:15PM	Panel Discussion: India Cooling Action Plan - Technology upgradation. Panelists: Mr. S.H. Kapoor (GM, ERC, Tata Motors Ltd.); Mr. Yuji Yamamoto (CTO, Pranav Vikas India Ltd.); Mr. A. Prabhakaran (Head-HVAC, M&M); Dr. Amit Love (Joint Director, Ozone Cell, MoEFCC); Dr. Satish Kumar (President & Executive Director, AEEE)
12:15PM - 12:30PM	Paper Presentation: Mechanism for propagation, attenuation and temporary storage of pressure signal in the multi-plug gel. Presenter: Lalit Kumar, Indian Institute of Technology, Bombay.
12:30PM - 12:45PM	Paper Presentation: Simulation of the Performance of Solar Driven Thermoelectric Based Rotary Desiccant Wheel HVAC System. Presenter: Selvaraji Muthu, Vellore Inst. of Technology, Vellore.
12:45PM - 01:00PM	Paper Presentation: Experimental Investigation of Dual AC System Used for Battery Cooling Plate. Presenter: Kamlesh Kumar Singh, Subros Ltd.
01:00PM - 01:15PM	Paper Presentation: UDM Tip Temperature Control Using Thermosyphon Effect. Presenter: Samson Solomon, Mahindra & Mahindra Ltd.
01:15PM - 02:00PM	Poll Results / Feedback Session
02:00PM - 02:15PM	Paper Presentation: Thermal Management and Performance Characteristic of Electric Vehicle. Presenter: S Biswas, Tata Motors Ltd.
02:15PM - 02:30PM	Paper Presentation: CVT Cooling of a BAJA All-Terrain Vehicle. Presenter: Neelesh Dayal, Maharaja Agrasen Inst Of Technology.
02:30PM - 02:45PM	Paper Presentation: Experimental Performance study of electric reefer system for commercial electric vehicle. Presenter: Ravi Garg, Subros Ltd.
02:45PM - 03:00PM	Paper Presentation: Universal Electric Vehicle Thermal Management System. Presenter: Tarun Rana, Pranav Vikas India Limited.
03:00PM - 03:30PM	End of the Day 1 Session (Poll results & Summary) Note: Keynote speaker sessions are liable to change under critical circumstances.

Second Day, August 27, 2020

10:30AM Onwards	Conference open for Login
11:00AM - 11:15AM	<p>Paper Presentation: Simulation of Hybrid Packed Desiccant Beds for Dehumidification and Drying.</p> <p>Presenter: Selvaraji Muthu, Vellore Inst. of Technology, Vellore.</p>
11:15AM - 11:30AM	<p>Paper Presentation: Climate Control Strategy for Electric Vehicles.</p> <p>Presenter: Datta Panchare, Tata Motors Ltd.</p>
11:30AM - 11:45AM	<p>Paper Presentation: Battery Thermal Simulation Method for Electric Vehicles.</p> <p>Presenter: Vivek Kumar, Tata Motors Ltd.</p>
11:45AM - 12:00PM	<p>Paper Presentation: Experimental Analysis of HVAC System Level Noise in Mobile Air-Conditioning (MAC) System.</p> <p>Presenter: Prasanna V Nagarhalli, Tata Motors Ltd.</p>
12:00PM - 12:15PM	<p>Paper Presentation: Thermal management of different systems using thermochemical energy storage, phase change materials and nano-particles.</p> <p>Presenter: Lalit Kumar, Indian Institute of Technology, Bombay.</p>
12:15PM - 12:30PM	<p>Paper Presentation: Methodology to Quantify the Undesirable Effects of the Localized Inefficiency of Heat Pick-Up in Suction Line on an Automotive Air Conditioning System.</p> <p>Presenter: Mayank Manoj Dubey, Tata Motors Ltd.</p>
12:30PM - 12:45PM	<p>Paper Presentation: CFD Analysis and Validation of Automotive Windshield De-Fogging Simulation.</p> <p>Presenter: Gopinath Sathianarayanan, Mahindra & Mahindra Ltd.</p>
12:45PM - 01:00PM	<p>Paper Presentation: Innovative Rear Air Blower Design Application for Improving Cabin Thermal Comfort with Improved Air Distribution and Air Quality.</p> <p>Presenter: Ravi Garg, Subros Ltd.</p>
01:00PM - 01:45PM	Poll Results / Feedback Session
01:45PM - 02:15PM	<p>Keynote Speaker Session: Real Drive Emissions - Opportunities & Challenges.</p> <p>Speaker: Mrs. Pamela Tikku (Chief Business Officer, NATRIP, ICAT) & Others.</p>
02:15PM - 02:30PM	<p>Paper Presentation: Experimental Analysis of Prominent Factors Affecting Evaporator Frosting in a Mobile Air-Conditioning (MAC) System.</p> <p>Presenter: Prasanna V Nagarhalli, Tata Motors, Ltd.</p>
02:30PM - 02:45PM	<p>Paper Presentation: Performance Improvement of Rail AC Assembly by Using CAE and CFD Analysis.</p> <p>Presenter: Paulson Parayil, Subros Ltd.</p>
02:45PM - 03:00PM	<p>Paper Presentation: Refrigerant Valves in AC- and Heat Pump Systems for Electric Vehicles.</p> <p>Presenter: Eike Willers, Otto Egelhof GmbH & Co. KG.</p>
03:00PM - 03:15PM	<p>Paper Presentation: Application of Phase Change Materials (PCM) for Reducing Cabin Heat Load.</p> <p>Presenter: Mayank Manoj Dubey, Tata Motors Ltd.</p>
03:15PM - 03:45PM	<p>End of the Day 2 Session (Poll results & Summary) Note: Keynote speaker sessions are liable to change under critical circumstances.</p>

Third Day, August 28, 2020

10:30AM Onwards	Conference open for Login
11:00AM - 11:30AM	Keynote Speaker Session: Corporate Average Fuel Economy - Future Challenges. Speaker: Mr. Anoop Bhat (Vice President, Maruti Suzuki India Limited), Mr. Yash Pal Sachar (Vice President, Honda Cars India Limited) & Mr. Rajendra Khile (GM, Renault Nissan Technology & Business Centre India).
11:30AM - 11:45AM	Paper Presentation: Design and Development of a Condenser for an Air-Conditioning System Working in Very High Ambient Temperature and Dusty External Environment. Presenter: Arunkumar Goel, Subros Ltd.
11:45AM - 12:00PM	Paper Presentation: Numerical Investigations on Heat Transfer and Flow Characteristics of Climate Control Systems in Electric Vehicles. Presenter: Mahendrarvarman Radha, Pranav Vikas India Pvt Ltd.
12:00PM - 12:15PM	Paper Presentation: Parametric Analysis of Impact of Geometrical Parameters on Thermal Performance in Compact Heat Exchangers. Presenter: Rachit Nawani, Subros Ltd.
12:15PM - 12:30PM	Paper Presentation: Challenges during Deployment of Cabin Air Quality Enhancers in Current Mobility Solutions. Presenter: Shubham Vijay Nimsatkar, Tata Motors Ltd.
12:30PM - 12:45PM	Paper Presentation: Aero-Thermal Analysis of Ventilated Passage in a Brake Disc. Presenter: Akshay Mhaske, Veermata Jijabai Technological Institute.
12:45PM - 01:00PM	Paper Presentation: Effect of Engine Speed on In-Cylinder Flows and Air-Fuel Interaction in a Four and Two-Valve DISI Engines – A CFD Analysis. Presenter: Ballapu Harshavardhan
01:00PM - 01:15PM	Paper Presentation: Thermal Analysis of Clutch Assembly Using Co-Simulation Approach. Presenter: Tanmay Sushant Santra, Mahindra & Mahindra Ltd.
01:15PM - 02:00PM	Poll Results / Feedback Session
02:00PM - 02:15PM	Paper Presentation: Dynamic Behavior of In-Cylinder Pressure Causing Fatigue Failure of Reed Valves. Presenter: Ankit Shukla, Subros Ltd.
02:15PM - 02:30PM	Paper Presentation: Transient Hot Shut Down, CFD Simulation Technique for Underhood Thermal Management. Presenter: Rajesh Chhotulal Pawar, Tata Technologies Ltd.
02:30PM - 02:45PM	Paper Presentation: Assessment of Engine Cooling System Performance Using 1-D/3-D Simulation Approach for Engine Transient Cycle. Presenter: Ajay Nain, Tafe Motors and Tractor Limited.
02:45PM - 03:00PM	Paper Presentation: Early Refrigerant Gas Leak Detection in MACs. Presenter: Kapil Singhal, B P Refcool.
03:00PM - 03:30PM	End of the Day 3 Session (Poll results & Summary) Note: Keynote speaker sessions are liable to change under critical circumstances.

Fourth Day, August 29, 2020

10:30AM Onwards	Conference open for Login
11:00AM - 11:30AM	Keynote Speaker Session: Faster Adoption & Manufacturing of Hybrid & Electric Vehicles - Future Roadmap. Speaker: Mr. Martin Murray (Chief Technology Officer, Mahindra Electric Mobility Limited) & Others.
11:30AM - 11:45AM	Paper Presentation: CFD Investigation of Exhaust Gas Bypass on Trolley Heating. Presenter: Nitin Dewangan, John Deere India Private Ltd.
11:45AM - 12:00PM	Paper Presentation: Advanced Methods to Handle LSPI in TGDI Engines. Presenter: Sekarapandian N, Vellore Inst. of Technology, Vellore.
12:00PM - 12:15PM	Paper Presentation: Adaptation of Sub-cool Condenser for an Air Conditioning System Employing an Internal Heat Exchanger. Presenter: Saurabh Suman, Subros Ltd.
12:15PM - 12:30PM	Paper Presentation: A review on numerical simulation methods for lithium- ion battery thermal management system based on phase change material and heat pipes. Presenter: Samiron Neog, Assam Engineering College.
12:30PM - 12:45PM	Paper Presentation: Simulation Methodology for Design and Development of Li-Ion Cell and Battery Pack. Presenter: Akash Saxena, ICAT
12:45PM - 01:00PM	Paper Presentation: High Voltage Battery (HVB) Durability Enhancement in Electric Mobility through 1D CAE. Presenter: Santosh Kumar Venu, Tata Motors Ltd.
01:00PM - 01:15PM	Paper Presentation: Effect of Variable Geometry Fin in Automotive Condenser Using Analytical and CFD Approach. Presenter: Ram Anandan, Mahindra & Mahindra Ltd.
01:15PM - 02:00PM	Poll Results / Feedback Session
02:00PM - 02:15PM	Paper Presentation: Thermal Management of Electrified Vehicle by Means of System Simulation. Presenter: Sanket Shah, Gamma Technologies, LLC.
02:15PM - 02:30PM	Paper Presentation: Iterative Study to Improve Air Flow Distribution on Ventilation Unit Duct Using CFD Analysis. Presenter: Paulson Parayil, Subros Ltd.
02:30PM - 02:45PM	Paper Presentation: Cabin and Battery Cooling Performance Trade-off in an Electric Vehicle. Presenter: Mohit Varma, Tata Technologies Ltd.
02:45PM - 04:00PM	End of the Day 4 Session (Poll results & Summary) & Closing remarks followed by Valedictorian Ceremony by Mr. I.V. Rao (Senior Fellow, TERI) & Mr. C.V. Raman (Sr. Executive Director-Engg., MSIL) Note: Best Paper & Best Presentation award would be announced.