

SAENIS-TTMS (Think Tank for Thermal Management Systems)**NATIONAL WEB CONFERENCE - 2020****Event At A Glance****First Day, August 26, 2020**

10:00AM On wards	Conference open for Login
10:30AM - 11:00AM	Inaugral Session followed by Opening Speech Chief Guest & Key Note Speaker: (From MoRTH/MOEFC /SIAM /ACMA)
11:00AM - 11:30AM	Theme: Future Thermal Systems - New Possibilities Theme Speaker : (OEM /Thermal systems supplier representative)
11:30AM - 12:15PM	Panel Discussion: India Cooling Action Plan - Technology upgradation Panelist: Representative of MOEFCC / Civil Society /OEM / Academia
12:15PM - 12:30PM	Paper Presentation: Thermal management of different systems using thermochemical energy storage, phase change materials and nano-particles. 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	Lunch Break / 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)

Second Day, August 27, 2020

10:30AM Onwards	Conference open for Login
10:45AM - 11:30AM	Panel Discussion: Real Drive Emissions - Opportunities & Challenges. Panelist: Representative of MORTH / Civil Society /OEM / Academia
11:30AM - 11:45AM	Paper Presentation: Climate Control Strategy for Electric Vehicles Presenter: Datta Panchare, Tata Motors Ltd
11:45AM - 12:00PM	Paper Presentation: Battery Thermal Simulation Method for Electric Vehicles. Presenter: Vivek Kumar, Tata Motors Ltd.
12:00PM - 12:15PM	Paper Presentation: Experimental Analysis of HVAC System Level Noise in Mobile Air-Conditioning (MAC) System. Presenter: Prasanna V Nagarhalli, Tata Motors Ltd.
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: Methodology to Quantify the Undesirable Effects of the Localized Inefficiency of Heat Pick-Up in Suction Line on an Automotive Air Conditioning System. Presenter: Mayank Manoj Dubey, Tata Motors Ltd.
12:45PM - 01:00PM	Paper Presentation: CFD Analysis and Validation of Automotive Windshield De-Fogging Simulation. Presenter: Gopinath Sathianarayanan, Mahindra & Mahindra Ltd
01:00PM - 01:15PM	Paper Presentation: Innovative Rear Air Blower Design Application for Improving Cabin Thermal Comfort with Improved Air Distribution and Air Quality. Presenter: Ravi Garg, Subros Ltd
01:15PM - 02:00PM	Lunch Break / Poll Results / Feedback Session
02:00PM - 02:15PM	Paper Presentation: Simulation of Hybrid Packed Desiccant Beds for Dehumidification and Drying. Presenter: Selvaraji Muthu, Vellore Inst. of Technology, Vellore
02:15PM - 02:30PM	Paper Presentation: Experimental Analysis of Prominent Factors Affecting Evaporator Frosting in a Mobile Air-Conditioning (MAC) System. Presenter: Prasanna V Nagarhalli, Tata Motors, Ltd.
02:30AM - 02:45AM	Paper Presentation: Performance Improvement of Rail AC Assembly by Using CAE and CFD Analysis. Presenter: Paulson Parayil, Subros Ltd.
02:45PM - 03:00PM	Paper Presentation: Refrigerant Valves in AC- and Heat Pump Systems for Electric Vehicles. Presenter: Eike Willers, Otto Egelhof GmbH & Co. KG
03:00PM - 03:15PM	Paper Presentation: Application of Phase Change Materials (PCM) for Reducing Cabin Heat Load. Presenter: Mayank Manoj Dubey, Tata Motors Ltd.
03:15PM - 03:30PM	End of the Day 2 Session (Poll results & Summary)

Third Day, August 28, 2020

10:30AM Onwards	Conference open for Login
10:45AM - 11:30AM	<p>Panel Discussion: Faster Adoption & Manufacturing of Hybrid & Electric Vehicles - Future Roadmap.</p> <p>Panelist: Representative of MORTH / Civil Society /OEM / Academia</p>
11:30PM - 11:45PM	<p>Paper Presentation: Design and Development of a Condenser for an Air-Conditioning System Working in Very High Ambient Temperature and Dusty External Environment.</p> <p>Presenter: Arunkumar Goel, Subros Ltd</p>
11:45AM - 12:00PM	<p>Paper Presentation: Numerical Investigations on Heat Transfer and Flow Characteristics of Climate Control Systems in Electric Vehicles.</p> <p>Presenter: Mahendrarvarman Radha, Pranav Vikas India Pvt Ltd.</p>
12:00PM - 12:15PM	<p>Paper Presentation: Parametric Analysis of Impact of Geometrical Parameters on Thermal Performance in Compact Heat Exchangers.</p> <p>Presenter: Rachit Nawani, Subros Ltd</p>
12:15PM - 12:30PM	<p>Paper Presentation: Challenges during Deployment of Cabin Air Quality Enhancers in Current Mobility Solutions.</p> <p>Presenter: Shubham Vijay Nimsatkar, Tata Motors Ltd.</p>
12:30PM - 12:45PM	<p>Paper Presentation: Aero-Thermal Analysis of Ventilated Passage in a Brake Disc.</p> <p>Presenter: Akshay Mhaske, Veermata Jijabai Technological Institute</p>
12:45PM - 01:00PM	<p>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.</p> <p>Presenter: Ballapu Harshavardhan</p>
01:00PM - 01:15PM	<p>Paper Presentation: Thermal Analysis of Clutch Assembly Using Co-Simulation Approach.</p> <p>Presenter: Tanmay Sushant Santra, Mahindra & Mahindra Ltd</p>
01:15PM - 02:00PM	Lunch Break / Poll Results / Feedback Session
02:00PM - 02:15PM	<p>Paper Presentation: Dynamic Behavior of In-Cylinder Pressure Causing Fatigue Failure of Reed Valves.</p> <p>Presenter: Ankit Shukla, Subros Ltd.</p>
02:15PM - 02:30PM	<p>Paper Presentation: Transient Hot Shut Down, CFD Simulation Technique for Underhood Thermal Management.</p> <p>Presenter: Rajesh Chhotulal Pawar, Tata Technologies Ltd</p>
02:30PM - 02:45PM	<p>Paper Presentation: Assessment of Engine Cooling System Performance Using 1-D/3-D Simulation Approach for Engine Transient Cycle.</p> <p>Presenter: Ajay Nain, Tafe Motors and Tractor Limited</p>
02:45PM - 03:00PM	<p>Paper Presentation: Early Refrigerant Gas Leak Detection in MACs.</p> <p>Presenter: Kapil Singhal, B P Refcool</p>
03:00PM - 03:30PM	End of the Day 3 Session (Poll results & Summary)

Fourth Day, August 29, 2020

10:30AM Onwards	Conference open for Login
10:45AM - 11:30AM	<p>Panel Discussion: Corporate Average Fuel Economy - Future Challenges</p> <p>Panelist: Representative of MORTH / Civil Society /OEM / Academia</p>
11:30AM - 11:45AM	<p>Paper Presentation: CFD Investigation of Exhaust Gas Bypass on Trolley Heating.</p> <p>Presenter: Nitin Dewangan, John Deere India Private Ltd.</p>
11:45AM - 12:00PM	<p>Paper Presentation: Advanced Methods to Handle LSPI in TGD I Engines.</p> <p>Presenter: Sekarapandian N, Vellore Inst. of Technology, Vellore</p>
12:00PM - 12:15PM	<p>Paper Presentation: Adaptation of Sub-cool Condenser for an Air Conditioning System Employing an Internal Heat Exchanger.</p> <p>Presenter: Saurabh Suman, Subros Ltd.</p>
12:15PM - 12:30PM	<p>Paper Presentation: A review on numerical simulation methods for lithium- ion battery thermal management system based on phase change material and heat pipes.</p> <p>Presenter: Samiron Neog, Assam Engineering College</p>
12:30PM - 12:45PM	<p>Paper Presentation: Simulation Methodology for Design and Development of Li-Ion Cell and Battery Pack.</p> <p>Presenter: Akash Saxena, ICAT</p>
12:45PM - 01:00PM	<p>Paper Presentation: High Voltage Battery (HVB) Durability Enhancement in Electric Mobility through 1D CAE.</p> <p>Presenter: Santosh Kumar Venu, Tata Motors Ltd.</p>
01:00PM - 01:15PM	<p>Paper Presentation: Effect of Variable Geometry Fin in Automotive Condenser Using Analytical and CFD Approach.</p> <p>Presenter: Ram Anandan, Mahindra & Mahindra Ltd.</p>
01:15PM - 02:00PM	Lunch Break / Poll Results / Feedback Session
02:00PM - 02:15PM	<p>Paper Presentation: Thermal Management of Electrified Vehicle by Means of System Simulation.</p> <p>Presenter: Sanket Shah, Gamma Technologies, LLC</p>
02:15PM - 02:30PM	<p>Paper Presentation: Iterative Study to Improve Air Flow Distribution on Ventilation Unit Duct Using CFD Analysis.</p> <p>Presenter: Paulson Parayil, Subros Ltd.</p>
02:30PM - 02:45PM	<p>Paper Presentation: Transient Hot Shut Down, CFD Simulation Technique for Underhood Thermal Management.</p> <p>Presenter: Rajesh Chhotulal Pawar, Tata Technologies Ltd</p>
02:45PM - 03:00PM	<p>Paper Presentation: Cabin and Battery Cooling Performance Trade-off in an Electric Vehicle.</p> <p>Presenter: Mohit Varma, Tata Technologies Ltd.</p>
03:00PM - 03:30PM	End of the Day 4 Session (Poll results & Summary) & Closing remarks