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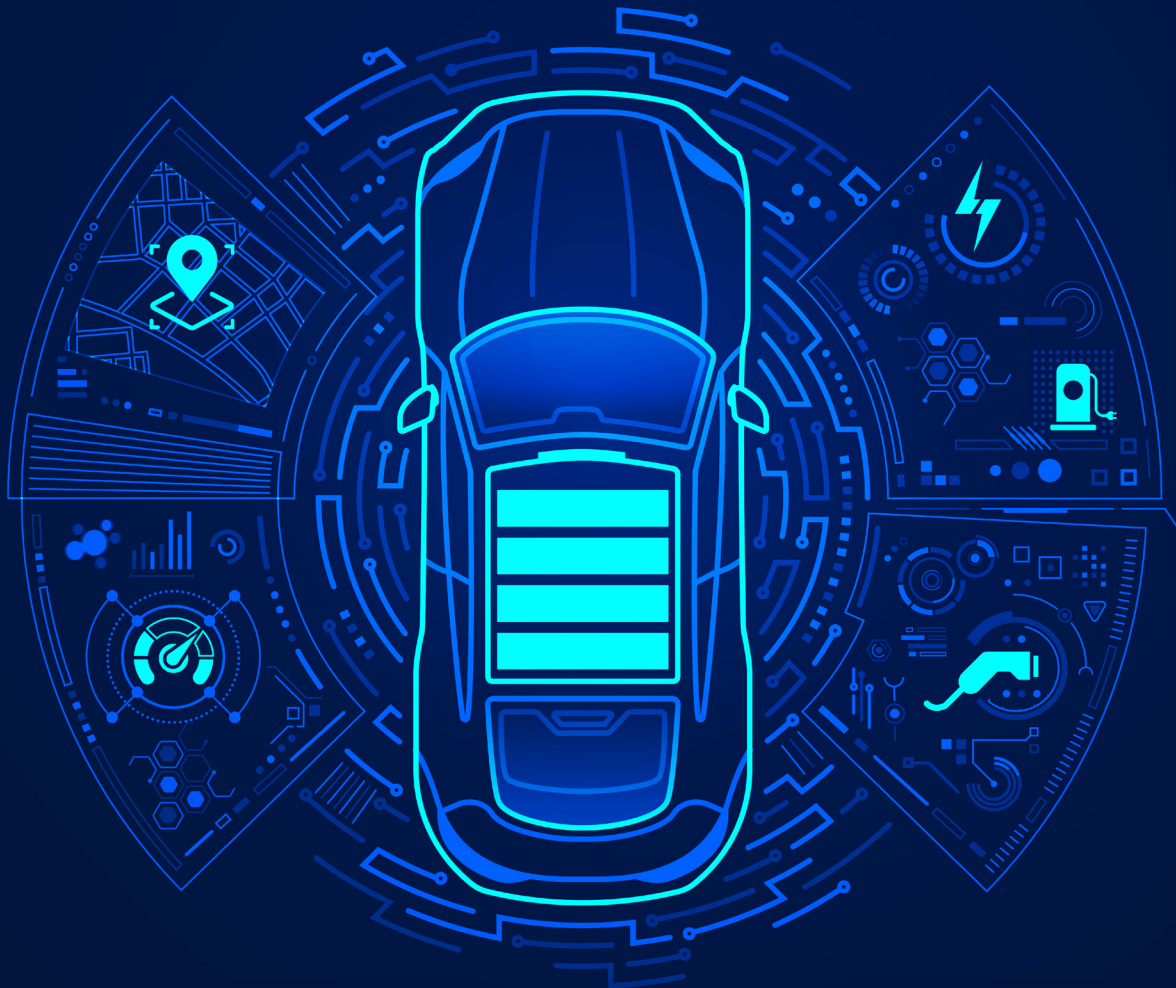


SAENIS TTTMS CONFERENCE 2023

Theme: Embracing emerging technologies

21-23 SEPTEMBER, 2023

Samskara Resorts, Jaipur, Rajasthan, India



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About The Conference

SAENIS TTTMS Thermal Management Systems Conference is an annual flagship conference organized by **SAE Northern India section** in collaboration with SAE International. It brings together industry experts, policymakers, and academia to highlight and address the concurrent issues, the latest technological trends, and advancements in thermal management systems for the automotive industry.

Think Tank for Thermal Management Systems (TTTMS) is a platform to address the evolving dynamics of the automotive thermal management systems, in association with the **Society of Automotive Engineers, Northern India Section (SAENIS)**.

The automotive industry is now at the cusp of a structural change brought in through innovation and technological advancements. The Indian automobile industry is a key pillar in the country's economy, be it growth, affordable mobility solutions, consumer confidence, or global standing.

Thermal management technologies have a critical role to play in enhancing automotive efficiencies, by making engines, transmissions, and HVAC systems more efficient, as well as enhancing passenger safety. With the **theme "Embracing emerging technologies"**, the conference will highlight the need for the industry practitioners to put the technological advancements into practice and collectively address the thermal management challenges in modern automotive design.



Organizer



SAE India Northern Section (NIS), is one of the five sections of Society of Automotive Engineers India for promoting membership from industries, institutions and technical colleges and for organizing activities related to mobility engineering in the Northern India Region. The Northern Section has been regularly organizing technical lectures, seminars and conferences for its members. Besides, the society organizes technical lectures, expositions, training programs, visit to industrial facilities, scholarships, and awards for student members.



SAEINDIA is a premier professional society that serves the mobility engineering community engaged in the design, manufacturing and service of self-propelled vehicles and systems that move in and, air, space and sea. SAEINDIA is the largest strategic alliance partner of SAE International.



SAE International is a global association of more than 1,28,000 engineers and related technical experts from over 100 countries representing aerospace, automotive and commercial vehicle industries, committed to advancing mobility knowledge and solutions for the benefit of humanity.

Agenda At A Glance

Dates	September 21	September 22	September 23
Inauguration			
Morning Session	<ul style="list-style-type: none"> India Cooling Action Plan (ICAP) Vehicle Climate Control 	<ul style="list-style-type: none"> Faster Adoption & Manufacturing of Hybrid & Electric Vehicles (FAME) Thermal Systems for Electric & Hybrid Vehicles 	<ul style="list-style-type: none"> SAENIS TTTMS Student Case Study Championship-2023
Afternoon Session	<ul style="list-style-type: none"> Real Drive Emissions (RDE) Thermal Simulation/ Modeling, Testing & Validation 	<ul style="list-style-type: none"> Corporate Average Fuel Economy (CAFÉ) Alternate Heating & Cooling Concepts 	<ul style="list-style-type: none"> SAENIS TTTMS Student Case Study Championship-2023
Valedictory			

Technical Session Topics

Vehicle climate control	Vehicle underhood thermal management	Automotive power-train cooling	Human factors including thermal comfort and cabin air quality	Alternative refrigerants
Thermal systems for hybrid and electric vehicles	Thermal system and components	Thermal systems for heavy and off-road vehicles	Waste heat recovery and regulatory topics	Thermal simulation/ analysis/ modelling

Paper submission through SAE International

My Tech Zone and selected technical papers will be published through SAE International. The selected papers will be presented at SAENIS TTTMS Conference-2023.

The time limit for each paper presentation would be 20 minutes (15 Mins Presentation + 5 Mins Q&A).

Who Should Attend

Personnel Profile

CEOs / CIOs / COOs / CTOs / SVPs / VPs / Global Heads / Directors / Divisional Heads / Team Leaders
Specialists / Strategists / Officers / Planners

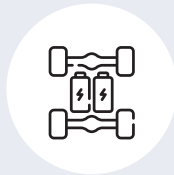
Organizational / Divisional Profile

OEMs / Research, Materials and Manufacturing / Energy and Systems / Charging Infrastructure
Hybrid and Electric Systems / BEVs / Electrification / Vehicle Architecture / Thermal Management
Thermal & Manufacturing Solutions / Energy Storage and Systems

Why Attend



Connect with experts and solution providers to address business challenges



Discover and be part of the future plans of OEMs, solutions providers and battery manufacturers



Examine short-term and long-term production roadmaps



Gain critical insight into the latest industry developments



Identify business opportunities through interactions with decision makers



Network with industry experts during speed networking breaks, coffee breaks, business lunches, and cocktail reception



Get full access to all event's presentations and conference materials



Expand networks, forge partnerships, drive growth, and create opportunities

Registration Fee

Plus 18% GST

Category	Student	Industry	Academia
SAE Member	INR 1000	INR 7000	INR 2500
Non-SAE Member	INR 1500	INR 9000	INR 4000

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The global automotive thermal system market

is estimated to expand at a CAGR of 2.79% from 2022 to 2031, reaching **USD 50.38 bn** in 2031 from **USD 37.22 bn** in 2021

Source: Transparency research



Rise in demand

for luxury vehicles with advanced features and comfort, implementation of stringent emission regulations, increase in demand for front and rear A/C, heated steering, integration of turbocharger in commercial vehicles, and use of smart thermal management systems in vehicles are anticipated to boost the automotive thermal systems market across the globe.

Source: Transparency research



Electric Vehicle (EV) Thermal Management System Market

The global electric vehicle thermal system market is estimated to expand at a **CAGR of 18.5%** from 2021 to 2029, reaching **USD 9.62 bn** in 2029 from **USD 2.47 bn** in 2021

Source: Maximizemarketresearch



Executive Committee Members - 2023



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Mentor-SAENIS TTTMS Conference



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Mr. UD Bhargale
Advisor, iCAT
Executive Director (Incoming), SAENIS
Mentor-TTTMS

Meet Our Coordination Team



Saurabh Suman



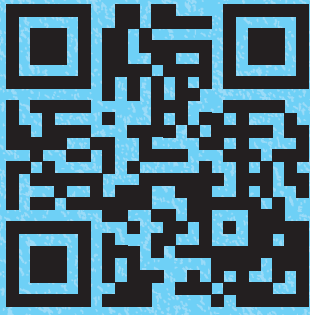
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#tttms23

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