



**TTTMS**

**2023**

**6th**

# **SAENIS TTTMS Conference**

*Embracing Emerging Technologies*

**September 21-23, 2023, (Thursday – Saturday)**  
**Samskara Resort & Spa, Jaipur, Rajasthan, India**

**SAE**  
INTERNATIONAL®

**SAEINDIA**  
Society of Automotive Engineers INDIA

**SAEINDIA**  
NORTHERN SECTION

# ABOUT CONFERENCE

- SAENIS TTTMS (Think Tank on Thermal Management Systems) Conference is the annual flagship conference organized by SAE (Society for Automotive Engineers) Northern India section in collaboration with SAE International.
- It brings together industry experts, policymakers, thought leaders and academia to highlight and address the concurrent issues, the latest technological trends, and advancements in thermal management systems for the automotive industry.
- It is one of the most sought after and unique conference in India on thermal management systems for the automotive industry.
- The conference is allied with the global conference on Automotive Thermal Management Systems
- TTTMS '23 is the sixth edition of the conference.



# THEME: EMBRACING EMERGING TECHNOLOGIES

- The automotive industry is 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.
- The Indian automotive industry contributes 7.1% of the country's GDP. By 2026, the industry aims to be the third largest in the world, contributing 10% of India's GDP. Safe and efficient automobiles will be the cornerstone of industry growth.
- 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. It becomes pertinent for the industry practitioners to put the technological advancements into practice and collectively address the thermal management challenges in modern automotive design.





# EVENT AT A GLANCE

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

# TECHNICAL SESSIONS

Vehicle Climate  
Control

Vehicle Underhood  
Thermal Management

Automotive Power-  
Train Cooling

Human Comfort  
Including Thermal  
Comfort & Cabin Air  
Quality

Alternative  
Refrigerants

Thermal Systems for  
Hybrid & Electric  
Vehicles

Thermal System &  
Components

Thermal Systems for  
Heavy & Off-road  
Vehicles

Waste Heat Recovery  
& Regulatory Topics

Thermal  
Simulation/Analysis/  
Modeling

Note:

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



# WHO SHOULD ATTEND?

- 01 CEOs, VPs and Senior Managers at OEMs
- 02 Group Product Directors for Hybrid and Electric Systems
- 03 Chief Engineers – BEVs
- 04 Group Product Directors for Hybrid and Electric Systems
- 05 Heads of Vehicle Architecture
- 06 Lead Engineers, Electrified Powertrains
- 07 Technical and Innovation Managers
- 08 Head of Research, Materials and Manufacturing
- 09 Chief Scientists – Energy and Systems
- 10 Heads of Charging Infrastructure
- 11 Project Leads – Electrification
- 12 R&D Engineers – Thermal Management
- 13 Technical Leads – Energy Storage and Systems
- 14 Senior Managers for Thermal & Manufacturing Solutions

# 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 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. It has 4,000+ professional members and 40,000 student members. 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.



# Mentors-SAENIS TTTMS CONFERENCE'23



**Mr. Balraj Bhanot**  
Homologation Expert, Chairman-  
TEDC (BIS)  
**Mentor-TTTMS**



**Dr. Prasad Kadle**  
Fellow SAE | Fellow ASME  
**Mentor-TTTMS**



**Mrs. Pamela Tikku**  
VP & Head-Auto Group Public Affairs  
Mahindra Group  
**Mentor-TTTMS**



**Mr. Sandeep Raina**  
Executive Vice President-Engg., MSIL  
**Mentor-TTTMS**



**Mr. Sangeet H Kapoor**  
Technical Chief-Climate Control, TML  
**Mentor-TTTMS**



**Mr. Arun Kumar Goel**  
VP & Advisor-Subros Technical Centre  
Vice-Chairman-Technical, SAENIS GB  
**Mentor-TTTMS**



**Mr. Saurabh Dalela**  
Director, ICAT  
**Mentor-TTTMS**



**Mr. Anup Kacker**  
Executive Director (Outgoing), SAENIS  
**Mentor-TTTMS**



**Mr. A. Prabhakaran**  
Head-HVAC & Engine Cooling CoE  
Senior Principal Engineer, M&M  
**Mentor-TTTMS**



**Mr. UD Bhangale**  
Ex-Advisor, ICAT  
Executive Director, SAENIS  
**Mentor-TTTMS**



# Executive Committee Members

## SAENIS TTTMS Conference-2023



**Mr. Yogendra Singh Kushwah**  
Executive Committee Member  
**Head**  
New Technology Group  
**Subros Ltd.**



**Mr. Anugu Anil Kumar**  
Executive Committee Member  
**Principal Engineer**  
Thermal Systems  
**M&M**



**Mr. Shriganesh Umbarkar**  
Executive Committee Member  
**Asst. Vice President**  
Research & Development  
**Maruti Suzuki India Limited**



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Engineering Research Centre  
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**Mr. Vikas Sadan**  
Executive Committee Member  
**Deputy General Manager**  
Vehicle Test Lab  
**ICAT**



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Executive Committee Member  
**Deputy General Manager**  
Advanced Technologies  
**Subros Ltd.**



**Mr. Somnath Sen**  
Executive Committee Member  
**Design Head**  
Vehicle Thermal Systems  
**Gensol EV**



**Mr. Kamal Sethi**  
Executive Committee Member  
**Senior Manager**  
HVAC Design Department  
**Maruti Suzuki India Limited**



**Mr. Anurag Maurya**  
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**Senior Manager**  
Climate Control  
**Tata Motors Ltd.**



**Mr. Selvaraji Muthu**  
Executive Committee Member  
**Senior General Manager**  
Design & Development  
**Mahle Engine**

# Sponsorship Opportunities

## CATEGORY

## TITLE SPONSORS

INR 3,00,000

Plus GST as applicable

*Exclusive slot for Media interviews on TV, Radio & article in Print Publications (Hindi & English)*

## Benefits

- Backdrop & Welcome standee logo (Top space & large size)
- 5 complimentary delegates
- Complimentary exhibition space for demo vehicle/system
- Inclusion of company brochures in the welcome kit
- Prominent display of company logo on event guide
- Company logo on all conference collaterals (top space)
- Company name on lanyard
- Complimentary presentation on topics
- Promotional film of 3-5 minutes in breaks
- Promotion of company name and logo at the venue at prominent places through “Thank you sponsors” panel
- One speaker slot for corporate presentation
- Registration data sharing under mutual agreement
- Complimentary exhibition stall

# Sponsorship Opportunities

## CATEGORY

# GOLD SPONSORS

INR 2,00,000

Plus GST as applicable

*Article & interview on Print Publications  
(Hindi & English)*

## Benefits

- Side backdrop logo and welcome standee logo at top space
- 4 complimentary delegate passes
- Complimentary exhibition space for demo vehicle/system
- Inclusion of company brochures in the welcome kit
- Inclusion of logo in event guide
- Logo on all promotional materials & collaterals
- Complimentary presentation on topics
- Promotional film of 3-5 minutes in breaks
- Promotion on “Thank you sponsors” panel
- One speaker slot for corporate presentation
- Registration data sharing under mutual agreement
- Complimentary exhibition stall

# Sponsorship Opportunities

## Benefits

### CATEGORY

## SILVER SPONSOR

INR 1,00,000

Plus GST

- Side backdrop logo and welcome standee logo small at bottom
- 3 complimentary delegates
- Inclusion of company brochures in the welcome kit
- Inclusion of logo in Event Guide
- Promotion of company name and logo at the venue at prominent places through “Thank you sponsors” panel

# Sponsorship Opportunities

## CATEGORY

### BRONZE SPONSOR

INR 60,000

Plus GST

## CATEGORY

### ASSOCIATE PARTNER

INR 30,000

Plus GST

## Benefits

- Logo on standees
  - 2 complimentary delegates
  - Inclusion of company brochures in the welcome kit
  - Inclusion of logo in Event Guide
  - Promotion of company name and logo at the venue at prominent places through “Thank you sponsors” panel
- 
- 1 complimentary delegate
  - Inclusion of company brochures in the welcome kit
  - Inclusion of logo in Event Guide

# CONFERENCE FEE



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

Plus 18% GST



**SCAN to Register**

**Click Here:** <https://bit.ly/3DuVtyN>

# Glimpses from Past Editions



# Past Sponsors



Air International-TTR



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**PASIO**<sup>®</sup>

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 **Simerics**  
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# Immersive Learning with Oodles of Relaxation...at Samskara Resorts & Spa, Jaipur





# CONNECT WITH US

**For Paper/Presentations:**

Saurabh Suman

**Email:** [tttms.saeindia@gmail.com](mailto:tttms.saeindia@gmail.com)

**Contact:** (+91) 8433235236

**For Sponsorship & Registration:**

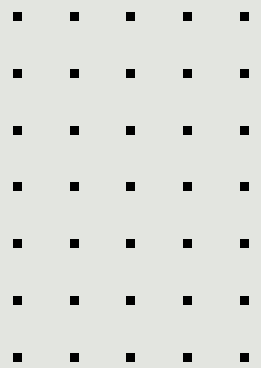
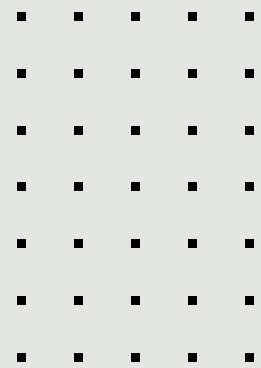
Deepali Roy

**Email:** [saenis.tttms@saenis.org](mailto:saenis.tttms@saenis.org)

**Contact:** (+91) 9811360397



**THANK YOU**



[www.saenis.org](http://www.saenis.org)