



# ASIABRAKE 2024

## 10<sup>th</sup> Annual Conference & Exhibition

3<sup>rd</sup> – 5<sup>th</sup> March 2024

The Leela Ambience Gurugram, Delhi NCR, India

### Sunday, March 3, 2024

7:00 - 16:00	Networking Activity (optional): Golf outing
8:00 - 16:00	Sightseeing of local attractions (optional)
17:00 - 17:45	Executive Board Meeting
17:45 - 18:30	Advisory Board Meeting
19:00 - 21:00	Conference Reception

### Exhibition Setup

16:00 - 22:00	Sunday, March 3, 2024
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### Monday, March 4, 2024

8:15 - 9:00	Registration
9:00 - 9:05	Lamp Lighting & Inauguration
9:05 - 9:10	Opening Remarks & Welcome Address By Steering Committee Chair, General Chair, Program Co-Chair Introduction of the Steering Committee and Advisory Board Members
9:10 - 9:20	<b>Keynote Address By Honourable Dr. Hanif Qureshi</b> Additional Secretary, Ministry of Heavy Industries, Government of India
Session #1	
9:20 - 9:50	<b>Panel I: "Future of Mobility in India: OEM"</b> Dr. Tapan Sahoo, Executive Director, Engg. Research, Design & Development Maruti Suzuki India Limited <b>Moderator: Aman Rathee, ED, ASK Automotive Ltd., India</b>
Session #2	
9:50 - 11:00	<b>Panel II: "Current Market Trends for Electric, Hybrid and ICE Vehicles"</b> <u>Europe</u> - Dr. Theo Grigoratos, EU Commission <u>USA</u> - Dr. Jay Fash, Zoox <u>China</u> - Thomas Feng, Link China <u>ASEAN</u> - Boon Teeraprawatekul/Krisda Utamote, Thailand EV Association <b>Moderator: Saikiran Divakaruni, ZF</b>
11:00 - 12:00	Coffee Break and Exhibition Area visit

Session #3	
12:00 - 12:45	<p><b>Panel III: “Current Market Trends in India: Tier 1”</b></p> <p>M P Raajha, Regional Director, Brake Business Unit - Asia, Hitachi Astemo India Ltd  Kartik Sankarnarayan, Vice President Marketing, Brakes India Private Limited  Naveen Sahni, Sales and Technical Operating Director at Brembo Brake India</p> <p><b>Moderator: Satya Priye, Director, Satya Cashew Chemicals Pvt. Ltd.</b></p>
12:45 - 13:45	Lunch Break
Session #4	
13:45 - 14:25	<p><b>Keynote Lecture</b></p> <p><b>“Brake Particle Emissions - What’s next? (A future outlook)”</b></p> <p>Dr. Theo Grigoratos, EU Commission</p> <p><b>Session Chair: Professor Georg Ostermeyer, Technical University of Braunschweig</b></p>
14:25 - 15:05	<p><b>Keynote Lecture</b></p> <p><b>“The Future of Mobility - Status of Autonomous Vehicle Development and the Impact on Brake Systems Engineering”</b></p> <p>Dr. Jay Fash, Zoox</p> <p><b>Session Chair: Professor Francesco Massi, University of Rome - La Sapienza</b></p>
Session #5	
15:05 - 15:45	<p><b>Brake Pad Moisture Adsorption Kinetics and Its Influence on Pad Compression Strain/Modulus vs. ISO ‘Compressibility’</b></p> <p>Seong Kwan Rhee, SKR Consulting LLC, USA  Shivraj Singh, and Devendra Kumar Sharma, ASK Automotive, Ltd., India</p> <p><b>ICE’s phase-out and brake dust emission reduction – “How these trends are affecting and will transform the brake industry and brake pads”</b></p> <p>Alberto Dall’Aglia, R&amp;D Senior Product Manager/ ITT Motion Technologies</p> <p><b>Session Chair: Srikanth Venkatesan - VP, Friction Business, Brakes India Private Limited Padi</b></p>
15:45 - 16:15	Coffee Break
Session #6	
16:15 - 16:55	<p><b>Keynote Lecture</b></p> <p><b>“AI and ML in Electric and Autonomous Vehicle Design and Development”</b></p> <p>Saikiran Divakaruni, ZF</p> <p><b>Session Chair: Rajendran, Technical Head, Taprath</b></p>
16:55 - 17:35	<p><b>Effect of corrosion on the thermal performance of ventilated brake rotor designs</b></p> <p>Sundara Raman Rajaraman, Senior Manager - R&amp;D. Co-Authors: Balaji Chinniah, Manager - Rotor Design, Srikanth Venkatesan - VP, Friction Business, Brakes India Private Limited Padi</p> <p><b>Innovative compounds for MoS2 replacements</b></p> <p>Dr. Fabian Hofmann, Head of Analytics and Application Engineer at Tribotecn GmbH</p> <p><b>Session Chair: Meechai Sriwiboon, Technical Director, Compact International (1994) Co., Ltd., Thailand</b></p>
19:00 - 21:30	Conference Dinner

## Tuesday, March 5, 2024

### Session #7

09:00 - 09:40	<b>Invited Lecture</b> <b>"Analysing Brake Measurement Data by Data Science"</b> Professor Georg Ostermeyer, Technical University of Braunschweig  <b>Session Chair: Dr. Theo Grigoratos, EU Commission</b>
09:40 - 10:40	<b>Effect of Moisture Adsorption on Low-Speed and Moderate-Speed Braking: Effect on In-Stop Friction Coefficient and Low Frequency Noise</b> Meechai Sriwiboon, Technical Director, Compact International (1994) Co., Ltd., Thailand  <b>Emerging Brake Technology &amp; Testing Solutions</b> Santiago Tinholt-Chiza, Product & Sales Manager @ LINKEngineering Company  <b>Integrated Brake Friction Screening: Scaled-down Bench Design and Evaluation.</b> Damien Yiyuan Khoo, Staff Scientist – Tribology Applications and Systems, Bruker  <b>Session Chair: Dr. Adnan Sarfraz, Development Manager Automotive at Lapinus</b>
10:40 - 11:10	Coffee Break

### Session #8

11:10 - 11:50	<b>Impact of Titanate Structure on Tribological Characteristics in Brake Friction Materials</b> Diego Chavez Jara, Senior R&D Engineer, Rimsa - Innovamat  <b>Sustainability and performance of CNSL derivatives for the friction industry</b> Frederique Catterman, International Sales Manager, Cardolite  <b>Session Chair: Santiago Tinholt-Chiza, Product &amp; Sales Manager @ LINKEngineering Company</b>
11:50 - 12:30	<b>Real-time Brake Dust Size Distribution Measurements in Wide Size Range with Dekati® High Resolution ELPI®+</b> Oskari VAINIO, Vice Sales Director, Service Director Dekati Ltd  <b>Brake Wear Testing - Is It Time for a Change?</b> Charles W. Greening, Jr., President, Greening, Inc.  <b>Session Chair: Balaji Srinevasan, Sr. VP, R&amp;D, Rane Brake Lining Limited</b>
12:30 - 13:30	Lunch Break

Session #9	
13:30 - 14:10	<b>Invited Lecture</b> <b>“Interplay Between Interface and System Dynamics in Automotive Brakes”</b> Professor Francesco Massi, University of Rome - La Sapienza  <b>Session Chair: Dr. Jay Fash, Zoox</b>
14:10 - 14:50	<b>Impact Hybrid Brake Disc Coating for particle emission reduction of gray cast iron brake discs</b> Dr. Sascha Bernhardt, Chief Sales Officer, Impact Innovations GmbH  <b>Sustainable Friction Material Recycling</b> Fabian Fuhr, Managing Partner, RMS Raw Material Service GmbH & Co. KG  <b>Session Chair: Boon Teeraprawatekul, Director Acme International</b>
14:50 - 15:30	<b>How does tribology play a part in the solution to the problem of drum brake noise?</b> Alan Charlton, Managing Director, Coatek International Ltd, UK  <b>Importance of the consistency of shot size and quantity in mineral fibres</b> Dr. Adnan Sarfraz, Development Manager Automotive at Lapinus  <b>Session Chair: Vijay Subramanian, India Alroko GmbH</b>
15:30 - 16:00	Coffee Break
Session #10	
16:00 - 17:00	<b>Phenolic Resins for Friction Composites- Recent Modifications</b> Dipak Kumar Ghosh, Director (Technical) Forace Polymers Pvt. Ltd. Haridwar, Uttarakhand  <b>Artificial Resilient Graphite for High Performance Brake Pads</b> Henrique de Lima Secco, Technical Product Manager, Superior Graphite  <b>NVH Analysis and Quality Inspection of Brake components in serial production</b> Jörg Ritter, CEO RTE Akustik+Prüftechnik GmbH  <b>Session Chair: Charles W. Greening, Jr., President, Greening, Inc.</b>
17:00 - 17:30	<b>Brake Emission Testing Process - New EU7 Standard - Assuring Repeatability and Reproducibility of Emission Measurement Results</b> Christian Wanek-Rüdiger, Group Product Manager, Aerosol and Gas Measurement, AVL List GmbH, Graz, Austria  <b>Brakes @ Indian Railways: Applications, Validations &amp; Collaborations</b> Rupesh Kohli, Executive Director-(TESTING) Research Design & Standards Organization (RDSO) Indian Railways  <b>Session Chair: Shivraj Singh, Vice President - Braking Solutions, ASKAUTOMOTIVE LTD.</b>
17:30 - 17:45	Closing Remarks

Exhibition Hours	
10:00 - 17:00	Monday, March 4, 2024
10:00 - 16:00	Tuesday, March 5, 2024

Wednesday, March 6, 2024	
7:00 - 18:00	Sightseeing (Optional): Taj Mahal, Agra