



# INTERNATIONAL CONFERENCE ON RELIABILITY EXCELLENCE

25th & 26th September, 2025, | Pune

## Day # 1

8:30 - 9:30	Registration	
9:30 - 10:45	INAUGURAL	
	Lighting of the Lamp	
	Welcome Address	Mr. Anindya Sarangi, Head ASQ South Asia
	Inaugural Address	Mr. Sid Bhatnagar, CEO, ASQ
	Keynote Address	Mr. Rajendra Petkar, President & CTO, Tata Motors & Chair - ICRE Advisory Committee
	Special Address	Mr. C V Raman, Executive Committee Member, Maruti & Chair - ICRE Technical Committee
	Guest of Honour	Dr. G. Satheesh Reddy, Member, National Security Advisory Board (NSAB) & President - AeSI
	Concluding Remarks	Mr. Devraj Chatteraj, TBExG, Tata Sons - ICRE Organising Committee
10:45-11:15	NETWORKING TEA BREAK	
11:15-11:35	<b>1. Reliability, Availability, Maintainability and Safety (RAMS)</b> <i>Discover the core pillars of RAMS, essential for ensuring that systems operate flawlessly throughout their lifecycle. This session will delve into the strategies and tools that enable organizations to maintain high levels of reliability, minimize downtime, and ensure safety, all while optimizing maintenance practices.</i>	
	Grand Maratha (Hall no. 3) Session Chair: Mr. Yogesh Pitkar, Strategic Quality Manager, John Deere - ICRE Technical Committee	Grand Maratha (Hall no. 1) Session Chair: Mr. Yashwant Mahakal, Founder & Principal Consultant, Institute of Systems - ICRE Technical Committee
11:15-11:45	Technical Session 1.1 (31): Reliability Analysis Framework for EV Powertrain - <b>Tata Motors</b>	Technical Session 1.2 (86) : Reliability, Availability, Maintainability (RAM) Analysis for Projects & Operating Assets - <b>British Petroleum TSI</b>
11:45-12:15	Technical Session 1.3 (57): Dynamic Reliability Apportionment – An Integrated Approach - <b>Symbiosis Statistical Institute</b>	Technical Session 1.4 (35): Selectively Elevated Seamless Fabric Switch - <b>Tata Motors Passenger Vehicles</b>
12:15-12:45	Technical Session 1.5 (113) Reliability Study Of Instrumentation For Radiation Detection And Measurement Using Monte Carlo Simulation - <b>DRDO</b>	Technical Session 1.6 (109) Prediction of Lithium-ion Battery Module Life based on real time State of Charge (SoC) and Temperature Data of Wind Turbine - <b>Vestas Technologies</b>
12:45-13:15	Technical Session 1.7: (50) Achieving RAMS using Systems Engineering: A Model-Based Approach - <b>Tata Motors</b>	Technical Session 1.8 (120) Failure Prevention in Aero Space Transmitter Power Supply: Integrating DfR into Design - <b>MTRDC, DRDO</b>
13:15-14:15	LUNCH BREAK	
14:15 - 15:45	<b>2. Reliability Risk Assessment and Management</b> <i>In a world where unforeseen risks can disrupt operations, understanding and managing reliability risks is crucial. This session will explore cutting-edge methods for assessing risks and implementing proactive measures, enabling you to safeguard your assets and maintain operational continuity.</i>	
	Grand Maratha (Hall no. 3) Session Chair: Prof. Anant Patki, Outstanding Scientist, Ex ISRO - ICRE Technical Committee	Grand Maratha (Hall no. 1) Session Chair: Dr. V. Swaminathan, Senior Vice President, NIQR
14:15-14:45	Technical Session 2.1 (1) Python based automation to calculate Part level to System level Reliability - <b>Atomberg Technologies</b>	Technical Session 2.2 (9) A Reliability-Based Risk Assessment Framework for Safe Crane Operations in Wind Turbine Installations - <b>Serentica Renewables India</b>
14:45-15:15	Technical Session 2.3 (10) Finite Element Based Reliability Predictions for Product Design- <b>Danfoss India Technology Centre</b>	Technical Session 2.4 (108) Influence of Production Loss and Environmental Conditions on Wind Turbine Reliability - <b>Vestas Technology</b>
15:15-15:45	Technical Session 2.5 (61) Statistical Methodologies to Measure the Effectiveness of Refurbishment Process: Case Study - <b>Philips</b>	Technical Session 2.6(115) Reliability Evaluation of Printed Circuit Boards: A Comparative Study of Physical Testing and Simulation Models - <b>Sierra Circuits</b>
15:45-16:15	NETWORKING TEA BREAK	
16:15-17:00	PANEL DISCUSSION # 1	
	<b>Reliability Culture and Leadership</b> <i>Building a culture of reliability starts at the top. This session will focus on the role of leadership in fostering a reliability-focused culture within organizations. Discover the leadership strategies and practices that drive reliability, from the boardroom to design board to the shop floor.</i>	
	Session Chair	Ms. Rashmi Urdhwareshe, Former Director ARAI - ICRE Advisory Committee
	Esteemed Panelists	Ms. Visalakshi Subramaniam, Director, Obsolescence Management, Integrated Supply Chain, Honeywell Aerospace. Ms. Aditi Sharma, Chief Manufacturing Excellence Officer, UNO Minda- ICRE Technical Committee
	Q&A / Concluding Remarks	
17:00 -17:30	FIRESIDE CHAT	
	<b>"Reliability in emerging technologies (IoT, AI, etc.)"</b> <i>As emerging technologies revolutionize industries, their reliability becomes a critical factor for success. This session will explore how IoT, AI, and other innovations are shaping the future of reliability, and how organizations can leverage these technologies to enhance system dependability.</i>	
	Session Chair	Mr. Shashi Bhushan, VP and Managing Partner, Corporate Technology Office, TCS - ICRE Advisory Committee
	Keynote Speaker	Mr. Manoj Meena, Founder and CEO Atomberg Technologies
17:30-17:45	Reliability Excellence Vision	Mr. Sandeep Patil, ICRE Organising Committee
17:45-18:00	Networking Dinner Hosted by Mr. Sid Bhatnagar, CEO ASQ	



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## Day # 2

9:00-9:30	<b>The Economics Of Reliability</b> <i>How does reliability impact your bottom line? This topic unpacks the economic implications of reliability, illustrating how investments in reliability can reduce costs, enhance performance, and drive long-term profitability. Learn to balance cost and reliability for maximum return on investment.</i>	
	Session Chair	<b>Mr. Sundaramanan G</b> , Chief Scientist, Wipro Research - ICRE Advisory Committee
	Esteem Keynote Speakers	<b>Mr. Daniel Conrad</b> , Hussmann, Global Engineering Director, Design Quality, Reliability, and Testing
	Q&A/ Concluding Remarks	
	<b>PANEL DISCUSSION # 2</b>	
9:30-10:30	<b>Reliability Lessons Learnt</b>	
	Session Chair	<b>Ms. Kavita Kaushik</b> , VP Corporate Quality, Cummins - ICRE Advisory Committee
	Panel discussion	<b>Mr. Preetam Merchant</b> , Head Engineering Quality, Tata Motors - ICRE Technical Committee <b>Mr. Vipin Garg</b> , Executive Officer, Quality Assurance, Maruti <b>Mr. Suneet Mishra</b> , Chief Quality Officer, Stellantis <b>Mr. Abhay Kulkarni</b> , Senior Vice President Quality Assurance, Mahindra & Mahindra Ltd.
	Q&A/ Concluding Remarks	
10:30-11:00	<b>NETWORKING TEA BREAK</b>	
11:00-12:00	<b>3. Reliability Optimisation &amp; Improvement</b> <i>Explore the art and science of optimizing reliability. This session will cover methodologies for design for reliability, derating, reliability growth, continuous improvement, including predictive maintenance and root cause analysis, helping you to achieve higher levels of reliability in your systems and processes.</i>	
	Grand Maratha (Hall no. 3) <b>Session Chair: Ms. Asmita Ghate</b> , General Manager, Tata Motors - ICRE Technical Committee	Grand Maratha (Hall no. 1) <b>Session Chair: Vice Admiral Ranjit Singh</b> , Director, DQRS, DRDO - ICRE Advisory Committee
11:00-11:30	Technical Session 3.1 (15) Reliability Estimation in Early Design Phase Using FEA simulation - <b>Whirlpool Of India</b>	Technical Session 3.2 (93) Predictive Analytics for Reliability: A Machine Learning Framework Using ECU & Telematics data - <b>Cummins India</b>
11:30-12:00	Technical Session 3.3 (37) Quantitative Reliability Assessment for Electric Vehicle Components Under High Temperature Operation Limit and Vibration in Real World Condition - <b>IndiaVP Semiconductor</b>	Technical Session 3.4 (97) Reliability Optimization in MCCBs- <b>Havells</b>
12:00-12:30	Technical Session 3.5 (95) AI-Based Predictive approach for Sustainable and Effective Field Testing - <b>Cummins India</b>	Technical Session 3.6 (81) Reliable Statement of Requirement (SoR) Generation for Automotive Industry - <b>TCS</b>
12:30-13:00	Technical Session 3.7(84) Performance Evaluation and Strategic Solutions for NVH Optimization in Modern Buses: Addressing Market Demands and Competitive Benchmarks - <b>Tata Motors</b>	Technical Session 3.8 (2) Quantification of Human Perception in Detecting Wobble in Ceiling Fans - <b>Atomberg Technologies</b>
13:00-14:00	<b>LUNCH BREAK</b>	
14:00-15:00	<b>4. Autonomous Systems, AI, Big Data and Internet of Things (IoT) Applications in Reliability &amp; Maintainability</b> <i>The integration of AI, Big Data, and IoT is transforming reliability and maintainability practices. This session will showcase how these technologies are being applied to predict failures, optimize maintenance schedules, and enhance overall system reliability in real-time.</i>	
	Grand Maratha (Hall no. 3) <b>Session Chair: Mr. Rajendra Dhage</b> , Quality Leader , <b>Cummins Global Services &amp; Analytics</b> - ICRE Technical Committee	Grand Maratha (Hall no. 1) <b>Session Chair: Mr. Sundaramanan G</b> , Chief Scientist, Wipro Research - ICRE Advisory Committee
14:00-14:30	Technical Session 4.1 (47) From Text to Insight: Generative AI for Automotive Warranty Analytics - <b>Tata Motors</b>	Technical Session 4.2 (56) Fault Detection for Predictive Maintenance in BLDC motor using Machine Learning Algorithms - <b>COEP Technological University</b>
14:30-15:00	Technical Session 4.3 (6) Asset Fault Prediction through Machine Learning Models - <b>NTPC Ltd</b>	Technical Session 4.4 (17) Enhancing Engine Mount Reliability with Predictive Analytics and Visualization: A Python and Power BI Approach - <b>Tata Motors</b>
15:00-16:00	<b>5. Software Reliability and Testing</b> <i>In the digital age, software reliability is non-negotiable. This topic will cover the latest techniques in software testing and quality assurance, ensuring that your software performs reliably under all conditions. Learn how to detect and eliminate vulnerabilities before they impact your operations.</i>	
	Grand Maratha (Hall no. 3) <b>Session Chair: Ms. Shweta Jahagirdar</b> , Head SDV, Tata Motors	Grand Maratha (Hall no. 1) <b>Session Chair: Mr. Preetam Merchant</b> , Senior General Manager, Head Engineering Quality, ERC, Tata Motors - ICRE Technical Committee
15:00-15:30	Technical Session 5.1 (89) Automotive Powertrain Software Quality and Practices - <b>Tata Motors</b>	Technical Session 5.2 :ReliaSoft Cloud: Enabling Scalable and Collaborative Reliability Analysis - <b>ReliaSoft - HBK World</b>
15:30-16:00	Technical Session 5.3 (94) From Practice to Discipline: Embedding Quality Assurance into Site Reliability Engineering - <b>Infosys Limited</b>	Technical Session 5.4: Sustainable Coding and Software Reliability Exploring synergies: A review study- <b>Idasu labs (ILA)</b>
16:00-16:30	<b>NETWORKING TEA BREAK</b>	
16:30-17:00	<b>Valedictory &amp; Awards</b>	
	Session Chair	<b>Mr. Hemant Urdhwareshe</b> , Director - IQR - ICRE Organising Committee
	Awards & Recognition	<b>Mr. C V Raman</b> , Executive Committee Member, Maruti & Chair - ICRE Technical Committee
17:00-17:30	Day 2 Closing and Summary followed by recognition of Best Application- based Case Study	

\*To be confirmed

Program and timings are subject to last minutes changes