



Research  
Institutes



**TWO DAY SYMPOSIUM ON  
E-MOBILITY IN INDIA:  
SAFETY AND THE WAY FORWARD**

**SEPTEMBER 27-28, 2022**

**CENTRE FOR SAFETY ENGINEERING  
INDIAN INSTITUTE OF TECHNOLOGY GANDHINAGAR**

**SAFETY ISSUES IN ELECTRIC VEHICLES**





IIT Gandhinagar  
Centre for  
Safety Engineering

TWO DAY SYMPOSIUM ON

# E-Mobility in India: Safety and the Way Forward



Research  
Institutes

Programme Schedule **DAY 1**

**Sept 27-28, 2022**

Venue: AB1/101, IIT Gandhinagar

TIME	PROGRAMME	SPEAKER
09:00 am - 09:30 am	REGISTRATION AND NETWORKING TEA	
09:30 am - 09:40 am	Welcome and Inaugural Address	<ul style="list-style-type: none"> <li>• Prof Amit Prashant, Director, IIT Gandhinagar</li> <li>• Shri Giridhar Aramane (IAS), Secretary, Ministry of Road Transport &amp; Highways, Government of India</li> </ul>
09:40 am - 10:15 am	<ul style="list-style-type: none"> <li>• Introduction</li> <li>• Government interventions</li> <li>• Role of key stakeholders in EV growth</li> </ul>	<ul style="list-style-type: none"> <li>• R.A. Venkitachalam, Adviser - IIT Gandhinagar Innovation and Entrepreneurship Center</li> <li>• Dr. Rahul Walawalkar, President, India Energy Storage Alliance (IESA)</li> <li>• Karthick Athmanathan, Professor of Practice, IIT Madras</li> </ul>
10:15 am - 10:45 am	<b>Technology</b> <ul style="list-style-type: none"> <li>• Battery Technologies and Challenges</li> <li>• Current status of Battery Management System (BMS)</li> </ul>	<ul style="list-style-type: none"> <li>• Dr. Judy Jeevarajan, Vice President &amp; Executive Director, Electrochemical Safety Research Institute (ESRI), UL Research Institutes (ULRI)</li> <li>• Dr. Rashi Gupta, Founder &amp; Managing Director, Vision Mechatronics</li> </ul>
10:45 am - 11:15 am	TEA BREAK	
11:15 am - 01:00 pm	<b>Technology Readiness for the market</b> <ul style="list-style-type: none"> <li>• Introduction to India 's EV Ecosystem</li> <li>• Current Status of EV Market</li> <li>• Safe Design, manufacturing on experience of EV sellers</li> </ul>	<ul style="list-style-type: none"> <li>• Abhishek Ranjan, Sr. VP Strategy &amp; Head - Utilities &amp; Retail, ReNew Power</li> <li>• Suraj Vallamkonda, Team Lead Battery Engineering, Ather Energy</li> <li>• Rajesh Mekkat, Director - Lithium-ion Cell Development, Ola Electric</li> <li>• Dr. Petra Andersson, Senior Researcher, RISE Research Institutes of Sweden</li> </ul>
01:00 pm - 02:00 pm	LUNCH BREAK	
02:00 pm - 03:15 pm	<b>PANEL DISCUSSION Advancing EVs in INDIA</b> <ul style="list-style-type: none"> <li>• Technology improvement relevant to India market</li> <li>• Initiatives on EV safety standards in Indian Market</li> <li>• Giga factories in the making – Safety during cell manufacturing</li> </ul>	<ul style="list-style-type: none"> <li>• Kislay Pankaj, CTO, Micelio Mobility</li> <li>• Akash Verma, Research Associate, Log9 Materials</li> <li>• Subham Mishra, Founder &amp; CEO, E-Vega Mobility Labs</li> <li>• Gopi Sankar, Chief Engineer – New Energy Vehicles, Ashok Leyland</li> </ul>
03:15 pm - 03:30 pm	TEA BREAK	
03:30 pm - 04:30 pm	<b>Standards &amp; Technologies</b> <ul style="list-style-type: none"> <li>• India and International Experience &amp; Learnings</li> <li>• Firefighter planning and International codes</li> </ul>	<ul style="list-style-type: none"> <li>• Sean De Crane, Staff Engineering Associate, Built Environment, UL Solutions</li> <li>• Michael Greiner, President, Hazard Control Inc, USA</li> </ul>
04:30 pm - 05:00 pm	<b>OPEN DISCUSSION</b>	Discussion with all speakers and audience and open the floor for Q&A



IIT Gandhinagar  
Centre for  
Safety Engineering

TWO DAY SYMPOSIUM ON

# E-Mobility in India: Safety and the Way Forward



Research  
Institutes

Programme Schedule **DAY 2**

**Sept 27-28, 2022**

Venue: AB1/101, IIT Gandhinagar

TIME	PROGRAMME	SPEAKER
09:00 am - 09:30 am	NETWORKING TEA	
09:30 am - 09:45 am	Welcome and Brief Remarks	Dr. M.K. Jain, Scientist-G/Associate Director, CEEFS DRDO, Ministry of Defence, Delhi
09:45 am - 11:30 am	<b>Testing Facilities &amp; the Standardization</b> <ul style="list-style-type: none"> <li>• Testing-Approach/Facilities (especially in Indian Context)</li> <li>• Characterization of EV and ESS fires</li> <li>• ESS fire testing</li> <li>• Comparative Account of Safety in Redox Flow Batteries</li> </ul>	<ul style="list-style-type: none"> <li>• Dr. Judy Jeevarajan, Vice President &amp; Executive Director, ESRI, ULRI</li> <li>• Dr. Daniel Juarez-Robles, Research Scientist, ESRI, ULRI</li> <li>• Sean De Crane, Staff Engineering Associate, Built Environment, UL Solutions</li> <li>• Dr. Jonna Hynynen, Research Scientist, Fire and Safety, RISE Research Institutes of Sweden</li> <li>• Dr. S. Sundar Manoharan, Director General, Pandit Deendayal Energy University</li> </ul>
11:30 am - 12:30 pm	<b>Response to EV Fires</b> <ul style="list-style-type: none"> <li>• Standards and Regulations of EV Fires</li> <li>• Challenge of Implementation vs Regulations</li> </ul>	<ul style="list-style-type: none"> <li>• Kurt Vollmacher, Expert, Alternative Energy</li> <li>• Michael Greiner, President, Hazard Control Inc, USA</li> <li>• Abhishek Bagwe, CEO, Firetech Pvt Ltd</li> </ul>
12:30 pm - 01:30 pm	LUNCH BREAK	
01:30 pm - 02:45 pm	<b>Public Event - Open House</b> <ul style="list-style-type: none"> <li>• Presentation of three teams</li> <li>• Panel Discussion - Open House</li> </ul>	<ul style="list-style-type: none"> <li>• R.A. Venkitachalam, Adviser - IIT Gandhinagar Innovation and Entrepreneurship Center</li> <li>• Dr. Judy Jeevarajan, Vice President &amp; Executive Director, ESRI, ULRI</li> <li>• Dr. Pravinray Gandhi, Guest Professor, Mechanical Engineering, IIT Gandhinagar</li> </ul>
02:45 pm - 03:15 pm	TEA BREAK	
03:15 pm - 03:45 pm	Way Forward - Next Steps	<ul style="list-style-type: none"> <li>• Prof Chinmay Ghoroi, Chemical Engineering, IIT Gandhinagar</li> <li>• Prof Gaurav Srivastava, Civil Engineering, IIT Gandhinagar</li> </ul>
03:45 pm - 04:15 pm	Concluding Remarks and Acknowledgements	<ul style="list-style-type: none"> <li>• UL Research Institutes and IIT Gandhinagar</li> </ul>

## SAFETY ISSUES IN ELECTRIC VEHICLES



CENTRE FOR  
**SAFETY ENGINEERING**  
IIT GANDHINAGAR

For more information please contact  
E: [safety@iitgn.ac.in](mailto:safety@iitgn.ac.in), Ph no.: 079-2395-2405

# SYMPOSIUM SPEAKERS



**Shri Giridhar Aramane, IAS**  
Secretary, Ministry of Road Transport & Highways, Government of India



**Abhishek Ranjan**  
Sr. VP Strategy & Head - Utilities & Retail, ReNew Power



**Abhishek Bagwe**  
CEO, Firetech Pvt Ltd



**Karthick Athmanathan**  
Professor of Practice, IIT Madras



**Kurt Vollmacher**  
Expert, Alternative Energy, USA



**Dr. Jonna Hynnen**  
Research Scientist, Fire and Safety, RISE Research Institutes of Sweden



**Dr. M.K. Jain**  
Scientist-G/Associate Director, CEEFS DRDO, Ministry of Defence, Delhi



**Dr. Rahul Walawalkar**  
President, India Energy Storage Alliance (IESA)



**Dr. Rashi Gupta**  
Founder & Managing Director, Vision Mechatronics



**Shubham Mishra**  
Founder & CEO, E-Vega Mobility Labs



**Suraj Vallamkonda**  
Team Lead, Battery Engineering, Ather Energy



**R.A. Venkitachalam**  
Advisor - IIT Gandhinagar Innovation and Entrepreneurship Centre



**Prof Gaurav Srivastava**  
Civil Engineering, IIT Gandhinagar



**Prof Amit Prashant**  
Director, IIT Gandhinagar



**Dr. Judy Jeevarajan**  
Vice President & Executive Director, Electrochemical Safety Research Institute (ESRI), UL Research Institutes (ULRI), USA



**Daniel Juarez Robles**  
Research Scientist at UL Research Institutes, UK



**Gopi Sankar**  
Chief Engineer- New Energy Vehicles, Ashok Leyland



**Kislay Pankaj**  
CTO, Micelio Mobility



**Akash Verma**  
Research Associate, Log9 Materials



**Michael Greiner**  
President, Hazard Control Inc, USA



**Dr. Petra Andersson**  
Chair, Senior Researcher, RISE Research Institutes of Sweden



**Rajesh Mekkat**  
Director - Lithium-ion Cell Development, Ola Electric



**Sean De Crane**  
Staff Engineering Associate, Built Environment, UL Solutions, USA



**Dr. S. Sundar Manoharan**  
Director General, Pandit Deendayal Energy University



**Dr. Pravinray Gandhi**  
Guest Professor, Mechanical Engineering, IIT Gandhinagar



**Prof Chinmay Ghoroi**  
Chemical Engineering, IIT Gandhinagar