



ELECTRIC
MOBILITY
FORUM



Thermal Runaway and Fire Characteristics & Suppression in Lithium-ion Batteries for Electric Vehicles

August 31, 2020
7:00 PM - 8:00 PM (IST)
WRI India

Speaker:

Dr. Judy Jeevarajan
Research Director – Battery Safety, Underwriters Laboratories Inc.

Moderator:

Shravani Sharma
WRI India



Electric Vehicle Safety: Thermal Runaway, Fire Characteristics & Suppression in Lithium-ion Batteries

In this month's webinar, we will discuss the nature of thermal runaway and the variations observed with different factors such as configuration, environment, interconnects and state of charge. For understanding this critical subject better, **Dr. Judy Jeevarajan from UL** will discuss the fire characteristics observed with two different li-ion cathode chemistries. The results from cell, module and battery-level tests will be presented. The webinar will also include some results from fire suppressions studies using different types of extinguishing agents carried out on very small lab scale modules.

In this webinar, Dr. Jeevarajan will also throw light on many such interesting topics and a few exciting take aways are :

- What is the nature of thermal runaway?
- What factors can affect thermal runaway propagation?
- What are the fire characteristics variation with different cathode chemistries?
- What are fire suppressants for small li-ion modules?

This is a 1-hour session with a presentation by the speaker followed by Q&A.

Explore the Collection

This resource is part of a suite of learning products linked with the following publication.

INSIDE THE ISSUE

Power Talk

In conversation with Chetan Meel, SUN Mobility India

Updates from the World

- Tata wins approval to use solid flow batteries in its China-made Model 3
- Germany ramps up electric vehicle battery production with big state subsidies
- Mahindra completes acquisition of ABB's Power Grids Business

Updates from India

- IIC launches battery swapping facility for quick recharge of electric vehicles
- SAARC IC and IR electric scooters unveiled, India launch in August
- Guidelines issued for EV charging infrastructure

EV @ WRI

A Webinar on 'Lithium-ion battery hazards and design challenges for the electric vehicle sector'

EV Feature

Not All Electric Vehicles are Cars, You Know by Katherine Madani, Bloomberg

FROM THE CEO'S DESK

Dear Friends,

I am pleased to present to you the 22nd issue of EVConnect. I also hope that you are keeping safe wherever you are.

In this edition of EVConnect, we bring to you a conversation with Mr Chetan Meel of SUN Mobility, Bengaluru, India. Our updates from international and national frontiers indicate progress: new electric two-wheeler models are set to launch and charging stations are being deployed (supported by policy revisions). From the international arena, there is continued interest in innovation on battery cell and pack production, as well as cross-cutting collaboration between power grid and energy solutions.

New developments are taking place at a rapid pace, and it is often difficult to keep up with them. These are reported through multiple media channels and are hard to track. This newsletter seeks to bring together several of these developments into one accessible document. We hope this curated and compiled content will come in handy to those who seek the latest information on electric mobility.

We hope you find this edition of the newsletter beneficial and share your thoughts so that we can improve further.



Sincerely,
Dr. CP Agarwal
CEO, WRI India

WATCH

Our EV Connect Power Talk interviews discuss insights, trends and the future of electric mobility with leading EV experts while our spotlight section showcases unique EV innovations from around the world.



Power Talk with Chetan Meel
Co-Founder and Vice Chairman of SUN
Mobility India



Electric Vehicles Components and
Working Principles by Automotive
Basic Knowledge

PUBLICATION

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