

# Symposium on Battery Electric Vehicle Safety

Assessing health and safety considerations for new and emerging technology

**September 11, 2025**

8:30 – 9:00 a.m.

**Arrival and check-in**

9:00 – 9:15 a.m.

**Opening remarks**

Sam Barbuto, Workplace Safety North

9:15 – 9:45 a.m.

**Managing Fire Safety of Battery Electric Vehicles in Underground Mines**

Dr. Adrian Halim, Luleå University of Technology

Despite battery electric vehicles offering significant benefits compared to traditional diesel machines, BEV fires have much higher consequences in underground mines. This presentation will explore the challenges managing BEV fires, including manually extinguishing the fire, managing fire safety in battery charging bays, and key research gaps required to address these challenges.

9:45 – 10:15 a.m.

**Case Study: Planning and Implementation of an Electrified Fleet**

Mike Mayhew, Mayhew Performance

To successfully integrate BEVs in any mining operation, this presentation will highlight several essential key steps based on successful projects worldwide. These steps provide a roadmap for organizations looking to adopt BEVs while transitioning toward greener, more sustainable energy solutions.

10:15 – 10:45 a.m.

**Networking break**

10:45 – 11:00 a.m.

**Remarks**

Mike Parent, Workplace Safety North

11:00 – 11:30 a.m.

**Plugged into Safety**

Ayden Robertson, Workplace Safety & Prevention Services

Ontario is quickly becoming a leader in the battery electric vehicle sector, with billions being invested by the Ontario government and global automakers. This emerging technology, however, has brought forward a variety of new hazards that many in the industry do not fully understand. This presentation will review BEV hazards, the legislation that applies to working on them, as well as gaps that have been identified in the industry.

11:30 – 12:00 p.m.

**Vale Mobile Fleet Management**

Raphael Tiangco, Vale Base Metals

This presentation will review the collaboration between Vale and Glencore as they helped guide the industry to common battery electric vehicle specifications addressing requirements for equipment operating in underground mining. This joint effort aimed to ensure BEVs were safe, efficient, and fit for purpose in mining environments. This presentation will provide an overview of the multi-stage development process that resulted in practical specifications supporting the procurement of BEVs since 2019.

12:00 – 1:00 p.m.

**Lunch and networking break**

1:00 – 2:00 p.m.

**Open Forum: Questions, Concerns & Insights on BEV Safety**

2:00 p.m.

**Closing remarks**

Sam Barbuto, Workplace Safety North