



Workshop on “Battery safety” – 2021

February 2021, Belgium

About the workshop

Workshop focuses on both automotive and stationary battery safety in each phase of battery’s cycle life, including acceptance, testing, assembly, use, transportation, and disposal. This workshop will engage in battery assembly operations, safety solutions to identify at the cells, pack and system level.

Workshop is designed for

- Battery & energy storage users
- Cell makers & Pack assemblers
- Energy storage suppliers
- Energy storage/power R&D engineers
- Executives and entrepreneurs
- Academic researchers
- Organization safety managers
- Battery plant managers & maintenance engineers
- Other industry members

Program topics

Technology overview – Thermal runaway – Thermal propagation – Design failures – Safety issues & features – Modelling approaches – Ways to build safe batteries – How far we are & What is the future ?

Key benefits -

- Root cause for selected battery safety
- Guidelines on how to handle batteries safely
- What-to-do guidelines of battery safety
- Checklist of safety equipment needed
- Update- latest technology market trends in battery safety

Workshop Highlights

This event is utmost importance to battery safety thus motivates us to organize workshop to tackle the battery safety issues as a global challenge that requires international collaboration.

Day 1: Program agenda

Schedule

Day 2: Program agenda

☞ Welcome & Introduction	8:30 – 9:00	☞ Coffee & Refreshment
☞ Battery safety issues, features and challenges of LIBs	9:00 – 9:45	☞ Key issues for LIB management in electric vehicles
☞ Thermal runaway from cell to pack & real lifetime use	9:45 – 10:30	☞ Battery safety & guidelines in production plants
☞ Networking break	10:30 – 10:45	☞ Networking break
☞ Thermal propagation in LIBs	10:45 – 11:30	☞ Operational safety of electric buses at depots
☞ Fundamentals of failure propagation in LIBs	11:30 – 12:15	☞ Modelling approaches for LIBs safety
☞ Lunch	12:15 – 1:00	☞ Lunch
☞ Battery design and management issues	1:00 – 1:45	☞ Materials for Li-ion battery safety
☞ Battery degradation characteristics & influence factors	1:45 – 2:30	☞ Building Safe LIBs for Electric Vehicles
☞ Networking break	2:30 – 2:45	☞ Networking break
☞ Current challenge of lithium dendrites	2:45 – 3:30	☞ Battery pack safety design and validation
☞ Safety-enhancing technologies for LIBs	3:30 – 4:15	☞ Solid-state batteries: safer for future?
☞ Wrap-up (Summary & conclusions)	4:15 – 4:45	☞ Wrap-up (Summary & conclusions)

Fees & Registration (Copy of ID is required)

Industrial participation: €1,000 + VAT , Academic participation: € 750 + VAT , Online participation: € 500 + VAT

10% discount for 2+ group attendees. The number of participants is limited. The registration fee includes hard copy print out of all workshop presentations, lunch, refreshments and excludes dinner.

Workshop location

Ransbeekstraat 310, 1120 Brussels

Enquires & Assistance: Please visit our website www.abeegroup.com for more information