

## Battery safety stockholm

How do we enable safe electrification at all stages of the battery value chain? How do we support a strong and safe battery industry for a sustainable future? Welcome to an inspiring conference focused on battery safety!

Update yourself on the latest in the battery field, gain new knowledge and expand your professional network. The Battery Safety Conference is aimed at decision-makers, technical managers, operations managers, production managers, engineers and technicians. We welcome vehicle and powertrain developers, industrial players, energy storage companies, innovators and entrepreneurs.

You can expect keynote presentations, technical sessions and practical examples where leading battery experts will share their insights and the latest research. The day includes panel discussions with opportunities to ask questions directly to the panel. There will also be plenty of opportunities to build your professional network.

The conference focuses on achieving a safe transition to electrification. In the morning, we will discuss battery safety from a societal perspective, including standards and regulations. We will attend the latest research on thermal propagation, next-generation batteries, and battery testing in the afternoon.

The conference aims to unite people active in the battery field and promote cooperation between industry, authorities, and academia in Europe. The aim is to support a strong and safe battery industry for a sustainable future.

Dr. Roberto Pacios is the current Electrochemical Storage Technology Coordinator of CIC EnergiGUNE, where he leads the technological research groups devoted to Battery Post-Mortem analysis, ageing and Safety; and Cell Design and Manufacturing. He holds a PhD in Experimental Solid State Physics from Imperial College London and an Executive MBA from the University of the Basque Country, Spain.

He also currently serves as the BE/BEPA Safety Task Force representative which defines and integrate all safety related issues into the different battery research programs and roadmaps at European level.

Tom Hessels MSc. works as an advisor and project manager at the Netherlands Institute for Public Safety (NIPV). His work focusses on battery safety, particularly on fires in electric vehicles, its corresponding extinguishing strategies and the safety aspects of energy storage systems.

Elna Heimdahl Nilsson has an educational background in chemistry and has performed extensive research on combustion chemistry of biofuels, before broadening her research interest towards Li-ion battery safety. At the technical faculty, Lund University, Elna is leading activities related to battery thermal runaway and fires, in a constellation that includes experimentalists and modelers. Elna is also the Lund University representative in the coordinator group of the Compel research initiative on the battery value chain, which also includes Chalmers

and Uppsala University.

The day will consist of morning and afternoon blocks with slightly different approaches. While the morning presentations focus on standards and solutions, the afternoon will be more about innovations and sustainability. Both blocks sum up in panel discussions.

This presentation will provide a comprehensive overview of the various challenges associated with lithium-ion batteries from a system perspective. It will cover the hazards and their consequences, as well as mitigation strategies to prevent these hazards. The talk will also include recommendations to reduce risks, which can be extended to other battery chemistries.

Electrification in the Netherlands is moving fast, and it will only accelerate further. This means an increasing number of lithium-ion batteries is being used. The big question is: how can we make this fast transition also a safe transition? In this presentation, Tom introduces some current developments on batteries in The Netherlands, which (regulatory) challenges this brings, and what fire safety research can do to support this transition into a safe one.

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