



E-mobility Day 2025

27 Aug - Mingle & Reception Dinner

18:00-18:30 MINGLE

18:30-21:30 DINNER

28 Aug - Morning Session

08:00-08:30 REGISTRATION

08:30-08:50 WELCOME

08:50-09:50 Theme 4, Environment & Society

SABRINA BRUNNER, VTI

EVÅLUTION – The development of electrification from a haulage perspective

MUDIT CHORDIA, CHALMERS

Life Cycle Assessment of Large-Scale Lithium-Ion Battery

Production and Recycling - Part 2

ANDERS NORDELÖF, CHALMERS AND VTI

Environmental burdens in co-production of rare earth elements for EV magnets

09:50-10:20 Coffee + Posters

10:20-11:20 Theme 5, Vehicle-Grid Interaction

MARIA TALJEGÅRD, CHALMERS

Electric Vehicle Charging Strategies and Grid Management Interaction

with the Electric Grid

NN, POLESTAR

V2G Service Blueprint co-design: Case study from Sweden

11:20-12:00 Theme 2, Vehicle-Grid Interaction

PÄR INGELSTRÖM, RISE

Eddy current effects in electrical steel

YUJING LIU, CHALMERS

Design and control of brushless excitation for EESMs



28 Aug - Afternoon Session

12:00-13:25 Lunch + Posters

13:25-13:45 Theme 2, Electric Drives & Charging

TORBJÖRN THIRINGER, CHALMERS

Modelling of a PMSM accounting for 'position harmonics' and control in order to establish the possibility of reducing ripple and keeping highest possible efficiency

13:45-14:45 Theme 3, Energy Storage

ARAM HALL, UPPSALA UNIVERSITY

Sodium-ion batteries for Automotive Applications

GUIOMAR HERNÁNDEZ, UPPSALA UNIVERSITY

Alternative PFAS free binders and electrolytes

TORSTEN WIK, CHALMERS

ML Assisted Ageing Prediction and Adaptive Modelling

14:45-15:15 Coffee

15:15-16:15 Theme 1, Intelligent Vehicles & Systems

FATEMEH HASHEMNIYA, LINKÖPING UNIVERSITY

Intelligent Diagnostics for Dynamically Reconfigurable Battery Sys-

BALÁZS ADAM KULCSÁR, CHALMERS

Robust learning methods for electric vehicle route

ÖIVIND ANDERSSON, LUND UNIVERSITY Air System Modeling for Efficient FCEVs

16:15-16:30 SUMMARY