

# E-mobility Day 2025

## 27 Aug – Mingle & Reception Dinner

18:00–18:30 MINGLE

18:30–21:30 DINNER

## 28 Aug – Morning Session

08:15–09:00 REGISTRATION

09:00–09:30 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*

09:30–10:00 Theme 5, Vehicle–Grid Interaction

**MARIA TALJEGÅRD, CHALMERS**

*Electric Vehicle Charging Strategies and Grid Management Interaction*

*with the Electric Grid*

10:00–10:45 Coffee + Posters

10:45–11:15 Theme 5, Vehicle–Grid Interaction

TBA

11:15–12:15 Theme 2, Electric Drives & Charging

**PÄR INGELSTRÖM, RISE**

*Eddy current effects in electrical steel*

**YUJING LIU, CHALMERS**

*Design and control of brushless excitation for EESMs*

**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*



## 28 Aug – Afternoon Session

12:15–13:45 Lunch + Posters

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*

14:45–15:05 Theme 1, Intelligent Vehicles & Systems

**FATEMEH HASHEMNIYA, LINKÖPING UNIVERSITY**

*Sodium-ion batteries for Automotive Applications*

15:05–15:35 Coffee

15:35–16:15 Theme 1, Intelligent Vehicles & Systems

**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