# 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**
**YUKI KOBAYASHI, CHALMERS, AND THERESE LUNDBLAD, CHALMERS**
*Electric Vehicle Charging Strategies and Grid Management Interaction
with the Electric Grid*
**EMANUELLA WALLIN, POLESTAR, AND ELENA MALAKHATKA, CHALMERS**
*V2G Service Blueprint co-design: Case study from Sweden*

**11:20–12:00**   **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*

# 28 Aug - Afternoon Session

**12:00–13:25**    *Lunch + Posters*

**13:25–13:45**    **Theme 2, Electric Drives & Charging**
**QIXUAN WANG, 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 Systems*
**BALÁZS ADAM KULCSÁR, FILIP RYDIN, ATTILA LISCHKA, CHALMERS**
*Robust learning methods for electric vehicle route*
**ÖIVIND ANDERSSON, LUND UNIVERSITY**
*Air System Modeling for Efficient FCEVs*

**16:15–16:30**    **SUMMARY**