

*Invitation to*

## Workshop on battery modelling

24 January 2019, Ångström Laboratory, Uppsala University

Swedish Electromobility Centre and theme Energy Storage are happy to invite you to a workshop on battery modelling, in partnership with eSSENCE and STandUP for Energy.

**SCOPE** This meeting is broadly directed at modelling of battery materials and systems, from fundamentals to application, with the aim of connecting different active areas of battery modelling research. The workshop will comprise six research presentations on diverse topics with substantial time for discussion/brainstorming.

**WHEN** 24 January 2019, 10:30-16:30

**WHERE** Beurlingrummet, Ångström Laboratory, Uppsala University, Lägerhyddsvägen 1, 75121 Uppsala

**CONTACT** Please contact [matthew.lacey@kemi.uu.se](mailto:matthew.lacey@kemi.uu.se) no later than January 17<sup>th</sup> if you are interested in participation.

Welcome!

### PROGRAMME

10.30 –  
10.40 Welcome (Daniel Brandell, Uppsala University)

10.40 – *“Thermal modelling & characterisation using an isothermal conduction calorimeter”*  
11.00 Jens Groot (Volvo Group Trucks Technology)

11.00 – *“Molecular dynamics simulations of ionic conductivity: from aqueous solutions to polymer electrolytes”*  
11.20 Chao Zhang (Uppsala University)

11.20 – *“Finite element modelling of batteries”*  
11.40 Henrik Ekström (KTH)

11.40 – *“Structure and dynamics in battery electrolytes”*  
12.00 Gustav Åvall (Chalmers)

12.00 – Lunch  
13.00

13.00 – *“Methodology and accuracy of high-current pulse discharge parametrization of commercial automotive Li-ion cells”*  
13.20  
Stefan Skoog (Chalmers)

13.20 – *“Atomic scale modelling of battery materials: insights into interfacial chemistry, structure prediction and superlithiation mechanism”*  
13.40  
C. Moyses Araujo (Uppsala University)

13.40 – Discussion period  
14.30

14.30 – Coffee break  
14.50

14.50 – Discussion period  
16.10

16.10 – Wrap-up and close  
16.30

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