



**Swedish
Electricity Storage
and Balancing Centre**

SESBC – Materials and Devices Layer workshop

16-17 June Värmlands museum, Karlstad

Tentative program

June 16th

12:00-12:30 Registration

12:30-13:30 Lunch

13:30-13:40 Introduction

13:40-14:00 **Novel Dielectric Diagnostics Method for Materials for New Generation of High-Performance Capacitors -- Yuriy Serdyuk (Chalmers)**

14:00-14:20 **High temperature battery technology -- Quan Wu (Chalmers)**

14:20-14:40 **Towards a more efficient use of PEM fuel cells and electrolyzers – Dylan Schulz (Chalmers)**

14:40-15:00 **New Catalysts for Electrolysis/Fuel Cell Purposes -- Ulf Helmersson (LiU)**

15:00-15:30 Coffee break

15:30-15:50 **Design of the next generation of slurry flow cells for electrical energy storage -- Reverant Crispin (LiU)**

15:50-16:10 **New bio-gel electrolytes for Zn-lignin batteries – Reverant Crispin (LiU)**

16:10-16:50 **Invited speaker – Glava Research Center**

16:50-17:10 **Presentation by Volvo Energy, Gabriel Merisanu**

17:10-17:30 **Presentation by Hydri**

17:30-17:50 **Presentation by Nanoscientifica, Robson Silva**

18:30 – Dinner



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June 17th

08:30-08:50 Performance evaluation of battery-based energy storages for various duties, in terms of power, energy and environmental impact – Meryem Ahouad (Chalmers)

08:50-09:10 AI methods for development and condition monitoring of energy storage devices -- Thomas Hammarström (Chalmers)

09:10-09:30 High-power vanadium redox flow batteries – Mikhail Vagin (LiU)

09:30-09:50 Energy Technologies, Smart Grid, and Technology Acceptance, Andreas Theocharis (KaU)

09:50-10:30 Coffee break

10:30-10:50 Presentation by Ionautics, Ulf Helmersson

10:50-11:10 Presentation by Nanoscientifica, Robson Silva

11:10-11:30 Presentation by RISE Karlstad, Anders Wickström

11:30-12:00 Interactive session/closing

12:00-13:00 Lunch

13:00-17:00 Study visit to Glava Energy Center