

## **DAY 1 - Tuesday, 20<sup>th</sup> of September**

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### **Electrochemical and Chemical Analyses as Powerful Complement for Battery Diagnostics**

Martin Winter – Helmholtz Institute Münster

### **Capturing Operando Ion Dynamics in Battery Materials using Optical Scattering Microscopy**

Christoph Schnedermann - University of Cambridge

### **Breaking the Nutshell of a Hardcase Lithium Ion Cell**

Simon Burkhardt – VARTA Microbattery GmbH

### **Solutions for Battery Materials Characterization and Implications for the Process Chain**

Christopher Giehl - Anton Paar Germany GmbH

### **A Correlative, Multimodal Characterization Workflow for the Analysis of Batteries: Accessing Deeply Buried Structures Guided by X-Ray Microscopy**

Benjamin Tordoff – Carl Zeiss Microscopy GmbH

### **On In-situ and Operando X-Ray and Neutron Imaging and Diffraction for Lithium Ion Cells**

Paul Shearing – University College London

### **In-Situ NMR/EPR Development of Redox Mediated Lithium-Oxygen Batteries**

Vera Kunz – University of Cambridge

### **Investigating Silicon-Based Anodes in Li-Ion Batteries by Correlating Neutron Imaging Techniques with X-Rays**

Erik Lübke – Institut Laue-Langevin

## **DAY 2 - Wednesday, 21<sup>st</sup> of September**

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### **In-line Monitoring in Electrode Manufacturing: A Research-Based Approach to Quality Assurance**

Arnaud du Baret de Limé – Fraunhofer IKTS

### **Cell Modelling and Multiscale Simulations: Numerical Tools for Battery Research and Production Processes**

Jochen Zausch – Fraunhofer ITWM

### **Advanced Imaging and Analysis of Si-Based Li-Ion Cells: Unravel the Microstructure – Material Property Relationship**

Roland Brunner – Materials Center Leoben Forschung GmbH

### **Basis Weight Measurement System for Battery Electrode**

Martin Eßmann – Yokogawa Deutschland GmbH

### **Area Density Measurement with Ultrasonic Transmission Sensors - Application in Battery Production**

Enno Duplitzer – MeSyS GmbH

### **The Smart Battery Production – Key Factors for a Successful GWh Cell Manufacturing**

Lang Jan-Steffen – PEC Germany GmbH

### **Multi-Scale Multi-Domain Modeling of Lithium-Ion Batteries – The Challenges of Parameterization**

Dr. Christoph Lechner - AVL