Program

13th Workshop Lithium-Sulfur Batteries

November 10 – 11, 2026
Fraunhofer IWS | Dresden

Tuesday, November 10, 2026

Session 1: Material and Cell Design I

12:00 (CET)	Registration
13:00	Opening
13:05	**Just Add Water: A Non-Flammable Li-Ion/Sulfur Battery** Steven Visco, PolyPlus Battery Company
13:40	**Controlling Lithium Polysulfides for Reversible Solid-Phase Conversion in Lithium-Sulfur Batteries** Masashi Ishikawa, Kansai University
14:00	**From Synthesis to Electrochemical Performance: Carbon-Sulfur Hosts for Li-S Batteries** David Mc Nulty, University of Limerick
14:20	**Reaction Mechanism of Iron Disulfide Cathode Material in All-Solid-State Li-S Batteries** Matilde Pavan, Justus-Liebig-University Gießen
14:40	**Exploring the Impact of Low Solubility Electrolytes on Li-S Cell** James Robinson, University College London
15:00	**Coffee Break**

Session 2: Material and Cell Design II

15:40	**Phase-Inversion-Engineered Polymer Scaffolds for High-Loading SPAN Cathodes in Li-S Batteries** Jeonghwan Cho, Sungkyunkwan University
16:00	**Redox-Active and Redox-Innocent Molecules in Lithium-Sulfur Batteries** Graham Newton, University of Nottingham
16:20	**Crystalline Sulfur Cathode Engineering: From Materials Processing to Pouch Cell Integration** Ardi Kryeziu, Theion
16:40	**A Separator-First Approach to Practical Li-S Batteries** Sigmund Kielland, Pentalys
17:00	**High-Capacity Sulfurized Carbon Cathodes Based on Dual-Sourced Sulfur Materials** Rodrigo Villegas Salvatierra, Zeta Energy
17:20	Concluding Remarks
17:30	**Poster Session and Get Together**

Wednesday, November 11, 2026

Session 3: Cathode Chemistry

09:00 (CET) Opening

09:05 **Mechanistic Insights into Lithium-Sulfur Battery Redox Bottlenecks**
Golareh Jalilvand, University of South Carolina

09:40 **From Dissolution-Precipitation to Solid-State Conversion: How Polysulfide Solubility and Pore Size Steer Li-S Chemistry**
Pronoy Dutta, Universität Salzburg

10:00 **Charge-Discharge Characteristics of Lithium-Sulfur Batteries Using Sulfur-Modified Polyacrylonitrile Cathodes in a Bis(fluorosulfonyl)amide-Based Ionic Liquid Electrolyte**
Yasushi Katayama, Keio University

10:20 **Understanding Sulfur Deposition, Polysulfide Retention and Degradation in Lithium-Sulfur Batteries by Multimodal Operando Techniques**
Sebastian Risse, Helmholtz-Zentrum Berlin

10:40 **Fluorinated Ethers for High Performance Li-S Batteries**
Nuria Garcia-Araez, University of Southampton

11:00 **Coffee Break**

Session 4: Solid-State Conversion

11:40 **Upscaling of Iodine-Doped Li-S Solid-State Battery Cathode Composites via Low-Energy Ball Milling**
Hasti Rahimi, Fraunhofer IWS

12:00 **Enabling Two-Step Sulfur Reduction Pathway for High-Performance All-Solid-State Li-S Batteries**
Hao Wang, Delft University of Technology

12:20 **Operando SAXS/WAXS to Probe Sulfur Conversion in All-Solid-State Lithium-Sulfur Batteries**
Lorenz Gruber, Universität Salzburg

12:40 **Gas-Phase Redox Mediation and Charge Transport in Lithium/Sulfur Solid-State Batteries**
Konrad Münch, Justus-Liebig-University Gießen

13:00 Concluding Remarks

13:15 **Lunch**