

## TUESDAY 25/03/2025

- 9:00 – 9:20** Welcome note
- 9:20 – 9:50** Keynote - How we develop batteries in a sustainable way  
*Raphaela Thevenin - VERKOR*
- 9:50 – 10:10** Designing Ni-rich cathodes for safer, longer lifetime batteries  
*Serena Cussen – University College Dublin*
- 10:10 – 10:40** **Coffee break**
- 10:40 – 11:00** Na-ion batteries: Should we /Can we do without Lithium?  
*Loïc Simonin - CEA*
- 11:00 – 11:20** Charge transport in composite polymer/ceramic electrolytes for all-solid-state batteries  
*Renaud Bouchet - LEPMI*
- 11:20 – 11:40** Looking inside battery cells: The power of combining different views  
*Marta Mirollo - ESRF*
- 11:40 – 12:00** Exploring the Impact of Materials Structure-Properties-Processing Relationships on Battery Performance  
*Guinevere Giffin - Fraunhofer*
- 12:00 – 12:30** PhD session
- 12:30 - 14:00** **Lunch break**
- 14:00 - 14:30** Keynote - Digitalization of battery manufacturing, state the challenges involved and how we solve it  
*Christober Raj - VERKOR*
- 14:30 - 14:50** Battery Manufacturing Knowledge Graphs : Unlocking Actionable Insights  
*Akash Basia - VERKOR*
- 14:50 - 15:10** Cybersecurity threats on battery cell manufacturing leveraging Ontologies and Knowledge Graphs  
*Nada Mimouni – Le CNAM*
- 15:10 - 15:30** Digitally-enhanced zero-defect manufacturing methods  
*Marcello Colledani - POLIMI*
- 15:30 - 16:00** **Coffee Break**
- 16:00 - 16:20** Digital Twins in Battery Cell Production, from Theory to Practice  
*Tom Hülsmann - Fraunhofer*
- 16:20 - 16:50** PhD session

## WEDNESDAY 26/03/2025

- 9:00 – 9:30** Keynote - The EU's battery recycling needs and opportunities  
*Rajapandian Rajagopal - VERKOR*
- 9:30 – 9:50** Battery second life before recycling? – Paradigm answers for value extraction in the European battery sector  
*Luis Oliveira - INEGI*
- 9:50 – 10:10** Towards a sodium sulfate free batterie recycling value chain  
*Maxime Ducreux - Mecaware*
- 10:10 – 10:30** Challenges of the deactivation of EV LIB for the recycling process – *Antoine Drancourt - CEA*
- 10:30 – 11:00** **Coffee break**
- 11:00 – 11:20** BATRAW: Electrochemical lithium recovery as a selective approach for Li-ion batteries waste treatment  
*Angel Manuel Escamilla Perez - LEITAT*
- 11:20 – 11:40** Closed-loop recycling of cathode active material approach  
*Lenka Svecova - LEPMI*
- 11:40 – 12:30** PhD session
- 12:30 - 14:00** **Lunch break**
- 15:00 -17:00** Sites visit: R&D assembly line of CEA / Synchrotron ESRF
- 18:30 – 21:30** **Networking cocktail + PhD price ceremony**

## THURSDAY 27/03/2025

- 9:30 – 10:30** Round table: training for battery industry
- 10:30 – 11:00** **Coffee break**
- 11:00 – 12:00** Cross prespectives- from labs to industry
- 12:00 – 13:30** Matériaux critiques dans la transition énergétique - application à la mobilité électrique – *Louis-Marie Malbec*
- 13:30 - 15:00** **Lunch break**
- 15:00 -17:00** Site visit: Verkor pilot line