

# Program Overview

## Monday

11/03/2025

7:30 am - 4:30pm

**Registration**

**First Morning Session**

8:30 am - 10:30 am

**Opening Remarks:**

Vito Di Noto / TBD  
TBD / TBD

- Michael Berube
- Kohei Uosaki
- Fabrice Stassin
- Hong Li

10:30 am - 11:00 am

**Coffee Break (Exhibit & Posters)**

**Second Morning Session**

11:00 am - 1:10 pm

- Peter Bruce
- Karim Zaghib
- Koichi Aotani
- Julianne Kluge
- Yoshiyuki Morita

1:10 pm - 2:40 pm

**Lunch**

**First Afternoon Session**

2:40 pm - 4:45 pm

- Changho Jung
- Luca Belforte
- Elena Ligabue
- Wenjuan Mattis
- Naoki Ota

4:45 pm - 5:15 pm

**Coffee Break (Exhibit & Posters)**

**Second Afternoon Session**

5:15 pm - 7:20 pm

- Chirranjeevi Gopal
- Xiaobo Ji
- Chao Yan
- Alex Yu
- Robert Kostecki

## Tuesday

11/04/2025

8:30 am - 4:30pm

**Registration**

**First Morning Session**

8:30 am - 10:40 am

- Xueliang (Andy) Sun
- Clare Grey
- Jennifer Rupp
- Jeff Sakamoto
- Zongwei Chen

10:40 am - 11:10 am

**Coffee Break (Exhibit & Posters)**

**Second Morning Session**

11:10 am - 1:20 pm

- Shirley Meng
- Claire Villevieille
- William Chueh
- Eric Wachsman
- Chisu Kim

1:20 pm - 2:50 pm

**Lunch**

**First Afternoon Session**

2:50 pm - 4:35 pm

- Kristine Persson
- Masayoshi Watanabe
- Minhua Shao
- Noriyoshi Matsumi

4:35 pm - 5:05 pm

**Coffee Break (Exhibit & Posters)**

**Second Afternoon Session**

5:05 pm - 6:20 pm

- Gioele Pagot
- Yong Yang
- Guohua Chen

8:00 pm - 11:00 pm

**Banquet (Ticketed Event)**

## Wednesday

11/05/2025

8:30 am - 4:30pm

**Registration**

**First Morning Session**

8:30 am - 10:40 am

- Yi Cui
- Jun Liu
- Nae-Lih Wu
- Byoungwoo Kang
- Riccardo Ruffo

10:40 am - 11:10 am

**Coffee Break (Exhibit & Posters)**

**Second Morning Session**

11:10 am - 1:20 pm

- Gerbrand Ceder
- Kisuk Kang
- Won-Sub Yoon
- Sergio Brutti
- Margaret Wohlfahrt-Mehrens

1:20 pm - 2:50 pm

**Lunch**

**First Afternoon Session**

2:50 pm - 5:20 pm

- Maximilian Fichtner
- Qian Zhang
- Lorenzo Stievano
- Corsin Battaglia
- Yong Min Lee
- Giffin Guinevere

5:20 pm - 5:30 pm

**Closing Remarks**

# Agenda

# PROGRAM: DAY I

11/03/2025

## 8:30 AM - 8:50 AM OPENING REMARKS



**VITO DI NOTO**  
University of Padova, Italy

## SESSION CHAIR: TBD

8:50AM - 9:15AM



**MICHAEL BERUBE**  
DOE, USA  
US Battery Critical Minerals - R&D Strategy

9:15AM - 9:40AM



**KOHEI UOSAKI**  
Japan Science and Technology Agency, Japan  
Recent Activities in Research and Development on Next Generation Batteries in Japan

9:40AM - 10:05AM



**FABRICE STASSIN**  
Batteries European Partnership Association (BEPA), Belgium  
Battery research, innovation and industrialization in Europe – State of play and future ambitions

10:05AM - 10:30AM



**HONG LI**  
Chinese Academy of Sciences, China  
Developing solid batteries for EV and ESS in China.

## 10:30AM - 11:00AM COFFEE BREAK (EXHIBIT & POSTERS)

## SESSION CHAIRS: TBD

11:00AM - 11:30AM



**PETER BRUCE**  
University of Oxford, UK  
The lithium anode solid state battery - mitigating dendrites and voiding

11:30AM - 11:55AM



**KARIM ZAGHIB**  
Concordia University, Canada  
Canada and Quebec Ecosystem for Manufacturing Lithium-Ion Batteries: From mines to cells to recycling

11:55AM - 12:20PM



**KOICHIRO AOTANI**  
Nissan Motor, Japan  
Challenges of Next Generation Battery for EV Application

12:20PM - 12:45PM



**JULIANE KLUGE**  
BMW, Germany  
Exploring the Future of Battery Technology: Insights and Innovations for Automotive Applications.

12:45PM - 1:10PM



**YOSHIYUKI MORITA**  
Honda, Japan  
Honda's sustainable Li-based cathode materials for batteries

1:10PM - 2:40PM

## LUNCH

## SESSION CHAIRS : TBD

2:40PM - 3:05PM



**CHANGHO JUNG**  
Hyundai, South Korea  
BMS technology development direction to enhance EV safety and convenience

3:05PM - 3:30PM



**LUCA BELFORTE**  
Stellantis, Italy  
TBD

3:30 PM - 3:55 PM



**ELENA LIGABUE**  
Ferrari, Italy  
The Future Challenges of Sports Vehicle Batteries.

3:55PM - 4:20PM



**WENJUAN MATTIS**  
Microvast, USA  
Driving Battery Innovation Through Simulation, AI, Big Data Analysis and System Integration

4:20PM - 4:45PM



**NAOKI OTA**  
24M Technologies, USA  
Leapfrog the Competition Through Radical Battery Innovation

## 4:45PM - 5:15PM COFFEE BREAK (EXHIBIT & POSTERS)

## SESSION CHAIRS: TBD

5:15PM - 5:40PM



**CHIRRANJEEVI GOPAL**  
Mitra Chem, USA  
Mitra Chem: Technological innovations with LFP/LMFP chemistry from lab to scale

5:40PM - 6:05PM



**XIAOBO JI**  
Central South University, China  
Sodium Cathodic Materials: From Basic Research to Industrialization

6:05PM - 6:30PM



**CHAO YAN**  
Princeton NuEnergy, USA  
Scaling Sustainability: Commercial Pathways for Direct Recycling and Production of Battery Cathodes

6:30PM - 6:55PM



**ALEX YU**  
Factorial Energy, USA  
Solid-State Revolution: From Prototype to Pavement

6:55PM - 7:20PM



**ROBERT KOSTECKI**  
Lawrence Berkeley National Laboratory, USA  
The passivity of negative electrodes in secondary batteries

## PROGRAM: DAY 2

11/04/2025

### SESSION CHAIRS: TBD

8:30AM - 9:00AM



**XUELIANG (ANDY) SUN**

Eastern Institute of Technology, China  
Halide-based Solid State Electrolytes for All Solid State Batteries: Past, Current, and Future

9:00AM - 9:25AM



**CLARE GREY**

University of Cambridge, UK  
New insight from NMR, XRD and optical studies of lithium-ion and lithium metal batteries

9:25AM - 9:50AM



**JENNIFER RUPP**

Technical University of Munich, Germany  
From Cheap Manufactured Solid Electrolytes to Designing Interfaces for Next Generation Batteries

9:50AM - 10:15AM



**JEFF SAKAMOTO**

University of California, Santa Barbara, USA  
Mechano-electrochemical Phenomena in Ceramic Electrolytes

10:15M - 10:40AM



**ZONGWEI CHEN**

Dalian Institute of Chemical Physics, China  
Solid-state Battery via Dry Electrode technology and Composite Electrolyte

10:40AM - 11:10AM **COFFEE BREAK (EXHIBIT & POSTERS)**

### SESSION CHAIRS: TBD

11:10AM - 11:40AM



**SHIRLEY MENG**

University of Chicago, USA  
A Reality Check on All Solid State Battery Technologies

1:40AM - 12:05PM



**CLAIRE VILLEVIEILLE**

University Grenoble-Alpes, France  
Is the microstructure controlling the electrochemical performance of solid state batteries?

12:05PM - 12:30PM



**WILLIAM CHUEH**

Stanford University, USA  
Accelerating Battery Development through Artificial Intelligence

12:30PM - 12:55PM



**ERIC WACHSMAN**

University of Maryland, USA  
Towards High Current Density Solid-State Li and Na Batteries

12:55PM - 1:20PM



**CHISU KIM**

Hydro-Québec, Canada  
Lattice oxygen redox chemistry in layered oxides

1:20PM - 2:50PM

**LUNCH**

### SESSION CHAIRS: TBD

2:50PM - 3:20PM



**KRISTINE PERSSON**

University of California, Berkeley, USA  
Charting Li-ion Battery Solvent-Salt Decomposition Products in the SEI

3:20PM - 3:45PM



**MASAYOSHI WATANABE**

Yokohama University, Japan  
Soft Matter Electrolytes for Next-Generation Batteries

3:45PM - 4:10PM



**MINHUA SHAO**

UST, Hong Kong  
Gel polymer electrolytes for pressure-free silicon-based lithium-ion pouch cells

4:10PM - 4:35PM



**NORIYOSHI MATSUMI**

Japan Advanced Institute of Science and Technology, Japan  
Specific polymer binder design for high rate performance of metal-ion secondary batteries

4:35PM - 5:05PM

**COFFEE BREAK (EXHIBIT & POSTERS)**

### SESSION CHAIRS: TBD

5:05PM - 5:30PM



**GIOELE PAGOT**

University of Padova, Italy  
From Polymer to Ionic Liquid Electrolytes: Paving the Way Beyond Li-ion Batteries

5:30PM - 5:55PM



**YONG YANG**

Xiamen University, China  
The ageing of Li-ion Batteries: Degradation Mechanism, Accelerating Tests and Lifetime Prediction

5:55PM - 6:20PM



**GUOHUA CHEN**

HKUST, Hong Kong  
Thermite Reaction induced Thermal Runaway for Lithium-Ion Batteries

8:00 PM - 11:00 PM



**BANQUET (TICKETED EVENT)**



# PROGRAM: DAY 3

10/30/2024

## SESSION CHAIRS: TBD

8:30AM - 9:00AM



**YI CUI**

Stanford University, USA  
Lithium Metal Battery Anodes and Electrolytes

9:00AM - 9:25AM



**JUN LIU**

University of Washington, USA  
Progresses and Challenges for Next Generation High Energy Lithium Batteries

9:25AM - 9:50AM



**NAE-LIH WU**

National Taiwan University, Taiwan  
Surface Modifications of Graphite-Based Anodes to Enable Fast-Charging and High Safety of Li-Ion Batteries

9:50M - 10:15AM



**BYOUNGWOONG KANG**

Postech, South Korea  
Controlling short-range ordering simultaneously enables high capacity and long cycle stability in SiO

10:15AM - 10:40AM



**RICCARDO RUFFO**

University of Milan Bicocca, Italy  
Engineering Oxide Nanocomposites via MAX Phase Oxidation for Advanced Negative Electrodes: Uncovering New Opportunities in Li-Ion Battery Materials Research

10:40AM - 11:10AM **COFFEE BREAK AND EXHIBIT**

## SESSION CHAIR: TBD

11:10AM - 11:40M



**GERBRAND CEDER**

University of California, Berkeley, USA  
An update on Mn-rich d-DRX cathode materials

10:40AM - 12:05PM



**KISUK KANG**

Seoul National University, South Korea  
Lattice oxygen redox chemistry in layered oxides

12:00 PM - 12:25 PM



**WON-SUB YOON**

Sungkyunkwan University, South Korea  
Over- & hyper-lithiated materials for optimized performance of next-generation Li batteries

12:30PM - 12:55PM



**SERGIO BRUTTI**

La Sapienza University of Rome, Italy  
Unlocking the Potential of Lithium-Rich Layered Oxides: Innovations from Design to Demonstration in Lithium Batteries

12:55PM - 1:20PM



**MARGARET WOHLFAHRT-MEHRENS**

Ulm University, Germany  
Strategies to improve lifetime of positive electrodes with water based binders

1:20PM - 2:50PM **LUNCH**

## SESSION CHAIR: TBD

2:50PM - 3:15PM



**MAXIMILIAN FICHTNER**

Karlsruhe Institute of Technology, Germany  
New Materials for Na Ion Batteries

3:15PM - 3:40PM



**QIAN ZHANG**

Tsinghua University, China  
High-Energy-Density Lithium-Sulfur Batteries with Weakly Solvating Electrolyte

3:40 PM - 4:05 PM



**LORENZO STIEVANO**

Université de Montpellier, France  
Towards Potassium Batteries: Electrochemical Insights and Practical Challenges.

4:05 PM - 4:30 PM



**CORSIN BATTAGLIA**

EMPA, Switzerland  
Towards an autonomous robotic battery materials research platform powered by automated workflow and ontologized FAIR data management

4:30PM - 4:55PM



**YONG MIN LEE**

Yonsei University, South Korea  
Digital Twin Battery Modeling and Simulations for Virtual Electrode Calendering and Structural Deformation of Separators in Metal Anode LIBs

4:55PM - 5:20PM



**GIFFIN GUINEVERE**

Fraunhofer-Institut für Silicidforschung ISC, Germany  
Direct Recycling supported by Design for Circularity for a Sustainable Battery Value Chain

5:20 PM - 5:30 PM



**VITO DI NOTO**

**CLOSING REMARKS**