

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

- 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 - 10:40am

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

10:40am - 11:10 am

Coffee Break (Exhibit & Posters)

Second Morning Session

11:10am - 1:20 pm

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

1:20 pm - 2:50pm

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 - 2:50pm

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

8:50 AM - 9:15 AM



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

9:15 AM - 9:40 AM



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

9:40 AM - 10:05 AM



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

10:05 AM - 10:30 AM



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

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

SESSION CHAIRS: TBD

11:00 AM - 11:30 AM



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

11:30 AM - 11:55 AM



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

11:55 AM - 12:20 PM



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

12:20 PM - 12:45 PM



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

12:45 PM - 1:10 PM



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

1:10 PM - 2:40 PM

LUNCH

SESSION CHAIRS : TBD

2:40 PM - 3:05 PM



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

3:05 PM - 3:30 PM



LUCA BELFORTE
Stellantis, Italy
Sustainable Materials and Advanced Characterization for the Next Generation Batteries

3:30 PM - 3:55 PM



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

3:55 PM - 4:20 PM



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

4:20 PM - 4:45 PM



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

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

SESSION CHAIRS: TBD

5:15 PM - 5:40 PM



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

5:40 PM - 6:05 PM



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

6:05 PM - 6:30 PM



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

6:30 PM - 6:55 PM



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

6:55 PM - 7:20 PM



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 Siliciumforschung ISC, Germany
Direct Recycling supported by Design for Circularity for a Sustainable Battery Value Chain

5:20 PM - 5:30 PM



KHALIL AMINE

CLOSING REMARKS