

Wednesday, May 12, 2021

AM Session	Plenary & Keynote Session Chairs: Jim McCarthy, PhD Chief Engineer Eaton Hank Sullivan Director Tenneco	PM Session	Storage & Infra-Structures Session Chairs: Kevin Fok Director, Operations LG Energy Solutions Kent Snyder Leader, Energy Storage Ford
Time	Live - Virtual Classroom	Time	Live - Virtual Classroom
8:30 am	Lihua Li, PhD Director of Propulsion Systems General Motors	1:00 pm	Summarizing our work over the years on redox flow battery cost/performance model, various grid-scale energy storage testing/analysis, and our Li-ion SOH model Alasdair Crawford, PhD Pacific Northwest National Laboratory
9:00 am	A Look at Commercial Powertrains Through 2030 Mihai Dorobantu, PhD Eaton	1:30 pm	Automated battery-package optimization using cloud simulation and data-driven design Anatol Dammer, PhD, Sophie Petraman, PhD, Naghman Khan, PhD SimScale GmbH, Noesis Solutions
9:45 am	Bob Gaylen Chairman Gaylen Energy LLC	2:00 pm	Energy Storage Systems in the Field Kevin Fok LG Energy Solution
10:15 am	Break	3:00 pm	Break
10:30 am	Kent Snyder Leader, Energy Storage Development Group Ford	3:30 pm	Quantitative Characterization Enabled Materials Design for High-Performance Energy Storage Chengcheng Fang, PhD Michigan State University
11:00 am	Stacey McCarthy Vice President of Programs Xcelero	4:00 pm	The Slow Journey to Fast Charging Mark Main, PhD Ford
11:30 am	Thomas Körfer , Group Vice President Michael Görgen, PhD , Dept. Manager Verena Huth, PhD Technical Expert/Project Manager Mufaddel Dahodwala, PhD , Technical Expert/Project Manager FEV	4:30 pm	Battery Storage, its integration to the electric grid and how it will contribute to the smart grid reliability. Vivian Sultan, PhD California State University
12:00 pm	Warren Parsons Chief Architect Advanced Vehicle Development (AVD) General Motors	5:00 pm	Energy Storage Integration Council and its utility and industry stakeholder Erin Minnear Electric Power Research Institute
12:30 pm	Session Adjourned & Break	5:30 pm	Adjournment

Thursday, May 13, 2021

AM Session	Materia & Recycling Session Chair: Xingcheng Xiao, PhD Staff Research Scientist Jin Liu, PhD, Researcher General Motors	PM Session	Manufacturing & Supply Chain Management Session Chairs: Mark Boyle, PhD Product Manager, AMADA WELD TECH INC. Teresa Rinker, PhD Senior Researcher, General Motors
Time	Live - Virtual Classroom	Time	Live - Virtual Classroom
9:00 am	Synthesis of Li7La3Zr2O12 Nanofibers for Solid-State Electrolyte Applications Yuepeng Zhang, PhD Argonne National Laboratory	2:00 pm	Driving Toward a Domestic Battery Supply Chain for e-Mobility Renata Arsenault Ford
9:30 am	Theoretical analysis on the criticality of Li-ion battery thermal runaway Peng Zhao, PhD University of Tennessee	2:30 pm	CFD Simulations for Laser Welding Paree Allu Flow Science, Inc
10:00 am	Developing Reduced-order Physical Based Model to Estimate the SOC of Li-Ion Batteries Zhibang Xu, Xia Wang, PhD, Zissimos Mourelatos Oakland University	3:00 pm	Integrating battery pack welding equipment into a production system Mark Boyle, PhD AMADA WELD TECH
10:30 am	The Challenge of Sustainable Battery Recycling Thomas Bjarnemark Battery Solution	3:30 pm	Electrochemical generation of liquid and solid sulfur on two-dimensional layered materials with distinct areal capacity Ankun Yang, PhD Oakland University Yi Cui, PhD Stanford University
11:00 am	Artificial intelligence for rapid cycle life evaluations of Li-Ion Sue Babinec, PhD Argonne National Laboratory		
11:30 am	Break	4:30 pm	Break
12:15 am	NMC Cathode Materials with Outstanding Performance Generated by a closed-loop recycling process Mengyuan Chen, PhD General Motors	4:15 pm	Battery Manufacturing Christopher Pawlak, Christy Landrigan LG Energy Solution
12:45 am	MC Cathode Materials with Outstanding Performance Generated by A Closed-Loop Recycling Process Sherman Zeng, PhD General Motors	4:45 pm	The universal tool for Laser welding of electrical contacts for E-Mobility Sebastian Moser Precitec
1:15 pm	Breaking the Energy-Power Tradeoff in Li-ion Batteries with Advanced Electrode Architectures Adrian Yao EnPower, Inc	5:15 pm	Latest Developments in High Brightness Blue Lasers enable high quality, high productivity Battery Welding Andrew Dodd Nuburu
1:45 pm	Session Adjourned & Break	5:45 pm	Adjournment