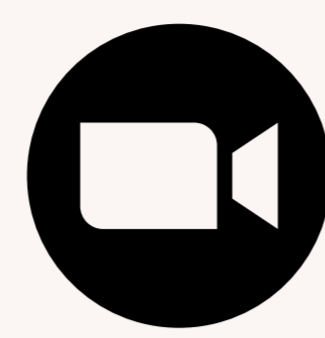


Workshop on Batteries for a Sustainable Future



Thursday, Nov 18th, 2021
9:00 AM to 3:00 PM (CT)



<https://utexas.zoom.us/j/97216773501>

Moderator: **Arumugam Manthiram**

9:00 AM - 9:35 AM : **Dr. Yue Qi, Brown University**
Ion and Electron Transport at Li/SEI/electrolyte Interfaces

9:35 AM - 10:10 AM : **Dr. Matthew McDowell, Georgia Institute of Technology**
Chemo-Mechanics of Metal Alloy Anodes in Next-Generation Lithium Batteries

Break

10:10 AM - 10:20 AM

Moderator: **Venkat Subramanian**

10:20 AM - 10:55 AM : **Dr. Dominik Kramer, Karlsruhe Institute of Technology**
The lithiation and delithiation of aluminum metal and factors influencing its reliability as electrode material

10:55 AM - 11:30 AM : **Dr. Dan Steingart, Columbia University**
Death of a Battery: A Tale in Two Acts

Break

11:30 AM - 12:30 PM

Moderator: **Gyeong Hwang**

12:30 PM - 1:05 PM : **Dr. Brian Heligman, UT Austin**
Composite Foil Anodes for Lithium-ion Batteries

1:05 PM - 1:30 PM : **Dr. Raj Gopalaswamy & Dr. Richard Hamerton, Novelis**
Aluminum Recycling and its Applications to Industry

1:30 PM - 1:55 PM : **Dr. Jeffrey Hales, UT Austin**
Policy & Market Drivers of a Sustainable Energy Transition

Break

1:55 PM - 2:10 PM

Moderator: **Brian Heligman**

2:10 PM - 2:25 PM : **Jayse Langdon, UT Austin**
An Advanced Electrolyte for High-Energy Lithium-Metal Batteries

2:25 PM - 2:40 PM : **Maitri Uppaluri, UT Austin**
Physics-based models for degradation & capacity fade prediction of lithium-ion batteries

2:40 PM - 2:55 PM : **Dr. Swastik Basu, UT Austin**
Molecular Modeling of Batteries