

## ***RENEW Distinguished Lecture Series Presents***

**Dr. Esther S. Takeuchi**

**Lecture Title: A Keystone in the Renewable Energy Future**



Electric energy storage systems such as batteries significantly impact society in a variety of ways, including facilitating the widespread deployment of portable electronic devices that surround each of us. Enabling the widespread deployment of electric vehicles hinges on next generation batteries that provide characteristics important to the consumer such as long driving distance, low cost, and batteries that last the life of the vehicle. Further, high levels of adoption of renewable energy generation such as wind and solar which are by their very nature intermittent demand integration of large scale energy storage. The specific battery technologies that will best address each application vary. However, consistent themes of materials design and selection, control of interfacial reactions and system architecture emerge. Scientific inquiry into battery systems has never been better as unprecedented characterization methods are now available that enable insights previously not possible. Examples highlighting new classes of materials, advanced characterization approaches and future prospects will be provided.

**Thursday, November 16th, 1:00pm-2:45pm**

**Davis 101**

**Agenda**

1:00 pm - 1:15 pm

RENEW Distinguished Lecture Introduction and Comments

1:15 pm - 2:00 pm

RENEW Distinguished Lecture

2:00 pm - 2:30 pm

Fireside Chat Style Discussion

2:30 pm - 2:45 pm

RENEW Distinguished Lecture Recognition