

ORCAS 2014 – INTERNATIONAL CONFERENCE ON ENERGY CONVERSION & STORAGE

The Friday Harbor Laboratories, Friday Harbor, WA
September 10-12, 2014



Program

September 10 (Wed)

1:30 pm - 4:30 pm	Arrival, Registration, Lunch
4:30 pm - 6:00 pm	Poster Session
6:00 pm - 7:00 pm	Dinner
7:30 pm - 8:00 pm	David Cahen , Weizmann Institute of Science <i>The amazing recent years in Solar Cells What's Next?</i>
8:00 pm - 8:10 pm	Discussion
8:10 pm - 8:40 pm	Daniel Kirschen , University of Washington <i>Grid Integration of Batteries and Photovoltaics</i>
8:40 pm - 8:50 pm	Discussion
8:50 pm - 9:20 pm	Ping Liu , Advanced Research Projects Agency-Energy (ARPA-E), DOE <i>Materials and Systems Approaches to Long-Life Energy Storage</i>
9:20 pm - 9:30 pm	Discussion
9:30 PM	Reception

September 11 (Thurs)

7:45 am - 8:30 am	Breakfast
8:45 am - 9:15 am	Noel (Chris) Giebink , Pennsylvania State University <i>Advances in Luminescent and Microtracking Solar Concentration</i>
9:15 am - 9:30 am	Discussion
9:30 am - 10:00 am	Ursula Fittchen , Washington State University <i>Li-ion Battery ageing – 3D and 2D Imaging of Elemental Depositions on the Graphite Anode and the $\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4$ Cathode in Full cells</i>
10:00 am - 10:15 am	Discussion
10:15 am - 10:45 am	Coffee and Group Photo
10:45 am - 11:15 am	Su-Huai Wei , National Renewable Energy Laboratory <i>First Principles Study and Design of Functional Materials for Energy Applications</i>
11:15 am - 11:30 am	Discussion
11:30 am - 12:00 pm	Brandi Cossairt , University of Washington <i>Indium Phosphide Quantum Dots for Energy Efficient Display Technologies</i>
12:00 pm - 12:15 pm	Discussion

12:30 pm - 1:30 pm	Lunch
1:30 pm - 4:00 pm	Free Time
4:00 pm - 6:00 pm	Poster
6:00 pm - 7:00 pm	Dinner
7:30 pm - 8:00 pm	Ji-Guang (Jason) Zhang , Pacific Northwest National Laboratory <i>Development of the Next Generation of Energy Storage Systems</i>
8:00 pm - 8:10 pm	Discussion
8:10 pm - 8:40 pm	Petr Sushko , University College London <i>Complex Oxides for Energy Applications: Defects, Defect Aggregates and Solid Solutions</i>
8:40 pm - 8:50 pm	Discussion
8:50 pm - 9:20 pm	Jiangyu Li , University of Washington <i>Electrochemical strain microscopy: principle, analysis, and applications</i>
9:20 pm - 9:30 pm	Discussion
9:30 PM	Poster Award Presentation, Free Time
September 12 (Fri)	
7:45 am - 8:30 am	Breakfast
8:40 am - 9:10 am	Xiaosong Li , University of Washington <i>From Charge-Transfer to Charge-Separated State: A Perspective from the Real-Time TDDFT Excitonic Dynamics</i>
9:10 am - 9:20 am	Discussion
9:20 am - 9:50 am	Brian Korgel , University of Texas at Austin <i>Colloidal Nanocrystals and Nanowires for Photovoltaics and Lithium Ion Batteries</i>
9:50 am - 10:00 am	Discussion
10:00 am - 10:30 am	Coffee
10:30 am - 11:00 am	Cody Schlenker , University of Washington <i>Understanding and controlling Charge Dynamics in Next-Generation Solar Cells</i>
11:00 am - 11:10 am	Discussion
11:10 am - 11:40 am	Bruce Hinds , University of Washington <i>Dramatic nano-fluidic properties of carbon nanotube membranes as a platform for protein channel mimetic pumps</i>
11:40 am - 11:50 am	Discussion
12:30 PM	Lunch + Group Departure



2016 Participants