

# SPECIAL SEMINAR

**Monday, December 5, 2016**  
**3:30 p.m. in Room 1315**



**DR. KIMBERLY SEE**

*University of Illinois, Urbana-Champaign*

*“Fundamental Processes and Materials Development in  
Next Generation Battery Systems”*

Next generation battery chemistry beyond the intercalation mechanisms employed in conventional Li-ion batteries will allow electric cars to drive farther and mobile electronics to last longer. This talk will explore the fundamental processes that control the electrochemical performance of next generation battery chemistries including Li-S and Mg metal batteries. New insight into the reduction and oxidation mechanisms in these electrochemical devices allows for the development of useful structure-property relationships and informs the design of new battery materials.