



Inorganic Chemistry Seminar Series

Tuesday, September 26, 2017, 12:30 pm

Seaver Science Library, Room 150

SSC Auditorium next to the library

Professor Brent C. Melot

Department of Chemistry

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Ions, Electrons, and Phonons: on the movement of charge through solids

Abstract:

Li-ion batteries are ubiquitous; powering our cell phones, tablets, and laptop computers. Yet, fundamentally, we've exclusively relied on materials that adopt the same ordered rock salt structure type for over 20 years. What makes these materials so special and why is it so hard to move past them? This talk will present our group's work at USC over the last five years to develop a deeper understanding of the fundamental structural and compositional requirements to move Li-ions through densely packed solids.

The scientific community is invited

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