

SE&T Colloquium Series-Winter 2014

Speaker	Dr. Michael Shaw Department of Chemistry Southern Illinois University Host: Dr. Adam Warhausen
Title	<i>Redox Properties of Ruthenium Vinylidene Complexes</i>
Abstract	<p>A student-friendly introduction to basic theory and selected advanced applications of the method of cyclic voltammetry will be presented, using the reduction behavior of a series of organometallic ruthenium vinylidene complexes as a vehicle. The consequence of reduction includes structural changes which lead to further uptake of electrons by these complexes. Mechanistic diagnosis and quantification of rate constants are possible through detailed analysis of the data recorded under different conditions. The system is amenable to study by redox catalysis methods, which yield further insight into reaction pathways and rate constants. Point-by point simulation of the observed data supports the proposed mechanisms.</p>
Date	Tuesday, February 25
Time	4:10-5:00pm
Place	Pioneer 240
	Refreshments will be served at 4:00pm.