SE&T Colloquium Series-Winter 2012

Speaker	Dr. John Montgomery Department of Chemistry University of Michigan Hosts: Dr. Stephanie Brouet and SVSU Chemistry Club
Title	***Discovery and Development of Nickel-Catalyzed Reactions***
Abstract	This presentation will describe the development of metal-catalyzed processes involving organosilane reducing agents. A general method for the synthesis of allylic alcohols has been developed, based on the reductive coupling of aldehydes and alkynes. Methodological advances, mechanistic studies, and complex synthetic applications will be described. The development of ligand-based strategies for controlling and reversing regiochemistry of alkyne insertion in this class of reactions will be discussed. In a second area, recent work has focused on devising a versatile reductive glycosylation procedure. Efforts to develop a toolbox of orthogonal glycosylation methods, with an eye towards site-selective glycosylation of complex polyfunctional molecules, will be described. Additionally, strategies for simultaneously addressing the assembly of complex aglycones while introducing carbohydrate functionality will be discussed.
Date	Tuesday, January 31
Time	4:10-5:00pm
Place	Pioneer 240
	Refreshments will be served at 4:00pm.