Transition Metal Catalysis toward Synthetic Utility

Eric M. Ferreira, University of Georgia

The tremendous capacity of transition metal catalysis to forge new chemical bonds cannot be overstated. Our research program has focused on the design and development of novel chemical transformations based on catalysis, with a significant emphasis on overall synthetic utility. In this seminar, we will discuss two reaction manifolds: chromium-catalyzed cycloaddition chemistry and platinum-catalyzed alkyne functionalization. These manifolds have been exploited in a variety of methodological advances; details and applications will be presented.