

ORGANIC SEMINAR

Tuesday, March 26, 2024
4:30 PM, WTHR 104

***“Engaging Esters, Aldehydes, and Alcohols
in Cross-Coupling: A High Throughput
Approach to Reaction Discovery”***



STEPHEN NEWMAN

Department of Chemistry &
Biomolecular Sciences
University of Ottawa

Abstract:

Catalytic cross-coupling reactions that unite simple organic building blocks continue to increase in scope, utility, and frequency of use. Progress in this field stems from improved mechanistic understanding, development of new catalysts, and identification of new functional groups that can be activated and engaged in cross-couplings and related transformations. In this seminar, strategies to incorporate esters, aldehydes, and alcohols into transition metal-catalyzed cross-coupling reactions will be discussed. The discovery process will also be detailed, including how a rational, mechanism-guided approach can act in synergy with high throughput experimentation techniques.



Department of Chemistry