

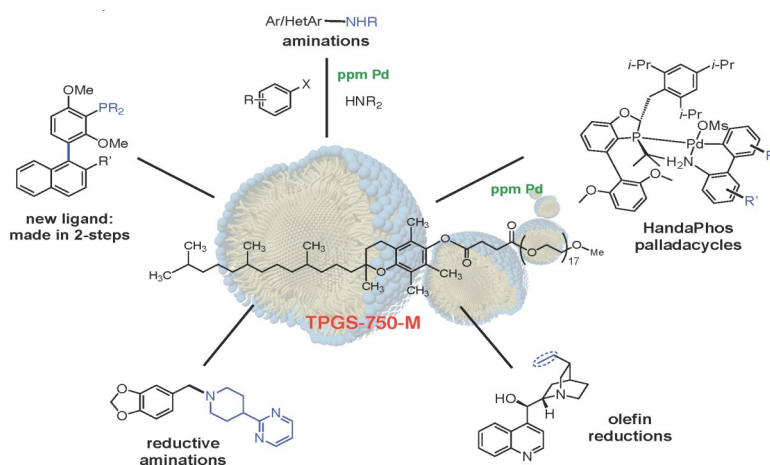
CHEMISTRY COLLOQUIUM

Professor Bruce Lipshutz
University of California,
Santa Barbara

Department of Chemistry & Bio-
chemistry

Wednesday, October
24th, 12:00pm

Lander Auditorium
140 Hutchison Hall
University of Rochester
Department of Chemistry



“Transitioning Organic Synthesis to a Water World. Faster, Better, Cheaper, & Environmentally Responsible Chemistry”

Abstract: Modern organic chemistry, and synthesis in particular, as currently practiced is not sustainable. Hence, new technologies that address several important, representative reactions from both the synthetic and environmental perspectives will be presented, as illustrated below. Each is enabled using a tailor-made, environmentally benign surfactant such as TPGS-750-M, that self-aggregates into nanoreactors of the proper size and shape. Reactions all take place in water under mild conditions, typically between rt and 45 °C. For transition metal catalyzed processes, especially those involving precious and endangered metals such as Pd, catalysts that function at the ppm level of the metal have been developed and will be presented.

Host: Professor Robert K. Boeckman • Email: rkbmac.chem.rochester.edu



