

CHEMISTRY COLLOQUIUM

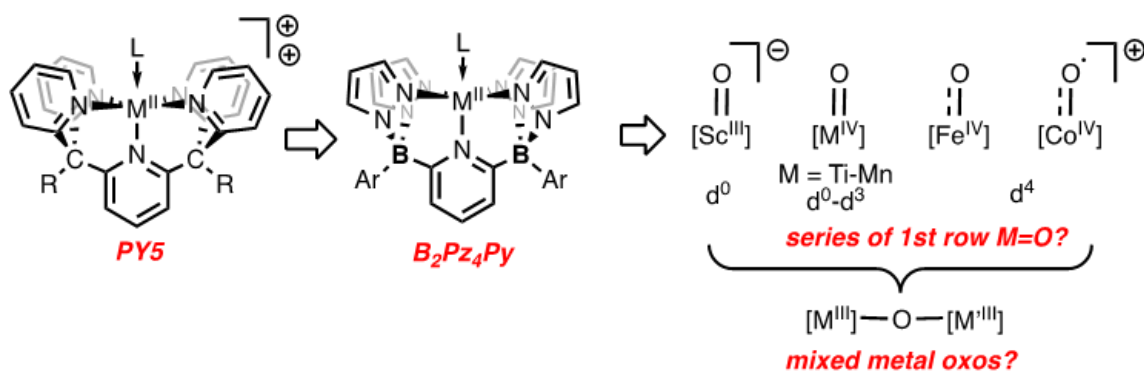
Wednesday, October 10th,
12:00pm

140 Hutchison Hall
Lander Auditorium

University of Rochester
Department of Chemistry

Professor Warren Piers

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Department of Chemistry



“First row transition metal complexes of a dianionic pentadentate ligand: metal oxos, oxyls and hydroxides.”

Abstract: Neutral tetrapodal pentadentate ligands with pyridyl and/or pyrazolyl donors coordinate a range of mid to late transition metals and provide a well defined platform for small molecule activation. Because of their lack of formal charge, complexes of transition metal ions are necessarily cationic and higher oxidation state compounds are destabilized. Introduction of anionic charge to the ligand framework renders neutralizes the metal complexes and makes higher oxidation state intermediates more accessible for study; furthermore, the coordination chemistry of these ligands can be extended into the early transition metal elements. This talk will describe the coordination chemistry of a recently developed dianionic pentadentate ligand with pyrazolylborate donors anchored by a central pyridine fragment for metals from across the first row of transition metals.

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