

INORGANIC SEMINAR
TUESDAY,
APRIL 5TH, 2016
4:00 P.M.
HUTCHISON HALL 473
DEPARTMENT OF CHEMISTRY
UNIVERSITY OF ROCHESTER



GUEST SPEAKER:
PROFESSOR JEFFERY BYERS
BOSTON COLLEGE
DEPARTMENT OF CHEMISTRY

“Iron-Based Catalysts for the Diversification of a Biodegradable Polymer”

Abstract:

The synthesis and characterization of bis(imino)pyridine and bis(amidinato)-N-heterocyclic carbene iron alkoxide complexes are described and applied towards the synthesis of the biodegradable polymer, poly(lactic acid). By altering the identity of the initiator and the oxidation state of the catalyst, biodegradable polymers with a range of tacticity, architecture, and composition can be controlled. In addition to describing the application of these complexes for polymerization catalysis, a discussion about the electronic effects and potential redox activity of the novel bis(amidinato)-N-heterocyclic carbene ligands will be disclosed.



Host: Professor Michael Neidig, email: neidig@chem.rochester.edu